

# *Gerald Quentin “Chip” Maguire Jr.*

## *Personal Information*

Citizenship: United States of America

## *Education*

Ph. D., Computer Science, University of Utah, 1983

M.S., Computer Science, University of Utah, 1981

B.A., magna cum laude, Physics, Indiana University of Pennsylvania, 1975

## *Employment*

July 1994 to present. KTH Royal Institute of Technology, \* . Professor, Computer Communication (Datorkommunikation).

July 1995 to December 2000. Head of the Computer Communication Systems Laboratory, KTH.

March to June 1994. Technische Universität Graz, Institut für Angewandte Informationsverarbeitung. Gastprofessor

January 1994 to June 1995, head of the Telecommunication Systems Laboratory, KTH.

July 1993 to June 1994. KTH Royal Institute of Technology, Department of Teleinformatics. Acting Professor.

July 1992 to December 1992. KTH Royal Institute of Technology, Department of Teleinformatics. Guest Professor

January 1991 to December 1992. U.S. National Science Foundation, Directorate for Computer and Information Science and Engineering, Division of Microelectronic Information Processing systems. Program Director for Experimental Systems

July 1989 to December 1993. Columbia University. Associate Professor

May 1985. Sandia National Laboratory. Summer University Faculty

July 1984 to June 1989. Columbia University. Assistant Professor

October 1983 to July 1984. Columbia University. Associate Research Scientist

January 1983 to September 1983. Columbia University. Visiting Assistant Professor

May 1981 to December 1987. Brookhaven National Laboratory. Research Collaborator

Fall 1981 to December 1982. University of Utah. University Research Fellow

Spring 1980 to Fall 1981. University of Utah. Research Assistant

Fall 1976 to Spring 1980. University of Utah. Teaching Assistant

Fall 1976 to present. New York University Medical Center. Computer Scientist (visitor)

Summer 1976. Manhattan College. Instructor, Radiation Protection

Fall 1975 to Spring 1976. State University of New York at Stony Brook. Research Assistant

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\*This new school name applies from 1 January 2018. From 1 Jan. 2005 to 31 Dec. 2017 the name of the school was Skolan för Informations- och kommunikationsteknologi/School of Information and Communication Technology (ICT).. From 1 Jan. 2001 to 31 Dec. 2004, the name of the “department” was Institute for Microelectronics and Information Technology (Institutionen för mikroelektronik och informationsteknik -- following merger of Teleinformatics, Electronics, ...).

### *Honors*

Member Academia Europaea (The Academy of Europe), Informatics Section, 2013.

IEEE Fellow, "for contributions to mobile networks and cognitive radio systems", 2013.

Årets Lärare (Teacher of the year) 2006/2007 as selected by the students in the Information Technology section of the KTH student association.

Faculty advisor to the students (Alisa Devlic, Alan Graf, George Kakhadze, and Younes Oukhay), who won 2nd place in the Excitera (a cooperation between KTH and Ericsson) Charon competition - for their mobile applications for Ericsson's Network Resource Gateway (NRG) using Parlay for their Shopping Buddy application.

Insightful Poster Session Award, October 27, 2005 - Lotta Olivecrona, Erica DeBernardo, Henrik Olivecrona, Gerald Q. Maguire Jr., and Marilyn E. Noz, "Assessing Prosthetic MOVement: Statistical Insight into Large Orthopedic Volumetric Data Sets Enabled the Transition of a New Method into Clinical Practice"

1997 Giovanni DiChiro Award for Outstanding Scientific Research published in the Journal of Computer Assisted Tomography.

ComputerWorld-Smithsonian Institute Awards, finalist, 1993.

Society of Computed Body Tomography, SCBT cum laude Research Award for CT/SPECT fusion, April 1991

Radiological Society of North America, Certificate of Merit for Scientific Exhibit Excellence, November 1990

Society of Computed Body Tomography, SCBT cum laude Research Award for CT/SPECT fusion, April 1989

Invited Lecturer in Local Area Networks and Image Processing - Leiden State University, Spring semester 1986

Fulbright Fellowship - Karolinska Institute, Stockholm, Sweden for the academic year 1983-1984

### *Professional Activities*

*Associate Editor:* IEEE Transactions on Medical Imaging - 1986-1992

*Journal Refereeing:* ACM Mobile Computing and Communication Review; ACM/Springer Multimedia Systems Journal special issue on Wireless Multimedia Transmission Technology and Application; ACM/Springer Wireless Networks: The Journal of Mobile Communication, Computation and Information; ACM Transactions on Multimedia Computing, Communications, and Applications; Computer Networks; EURASIP Journal on Wireless Communications and Networking; Hindawi's Advances in Multimedia; Hindawi's International Journal of Distributed Sensor Networks; The International Journal of Computer and Telecommunications Networking (Elsevier); Computer Networks and ISDN Systems, European Transactions on Telecommunications; IBM Systems Journal; IEE Electronics Letters; IEEE Computer Graphics and Applications; IEEE Communications Magazine; IEEE Communications Surveys; IEEE Computer Magazine; IEEE Signal Processing Letters; IEEE Software; IEEE Transactions on Mobile Computing; IEEE Transactions on Medical Imaging; IEEE Journal on Selected Areas in Communications; IEEE Transactions on Software Engineering; IET Circuits, Devices & Systems; International Journal of Microcomputer Applications; International Journal of Parallel Programming; Journal of Internetworking Research and Experience; SIAM Journal on Computing; SPIE Optical Engineering; The Computer Journal; Wiley Wireless Communications and Mobile Computing Journal

*Conference Leadership:* IEEE International Conference on Computer Communication Networks (ICCCN 2012) "Wireless LAN, Ad Hoc, and Mesh Networks" - track program committee,

Technical Program Committee IFIP International Conferences on Networking (2009), Technical Programme Committee IEEE Workshop on Local and Metropolitan Area (IEEE LANMAN 2008), Technical program committee Fourth Workshop on Embedded Networked Sensors (EmNets 2007), 4th EUROPEAN Conference on Universal Multiservice Networks (ECUMN 2007), Technical program committee 3rd International Workshop on Wireless Traffic Measurements and Modeling (WiNMee/WiTMemo 2007), Program Committee IPSN Track on Sensor Platform, Tools and Design Methods for Networked Embedded Systems (SPOTS'07), Program Committee IFIP International Conferences on Networking (2006), Program Committee 2nd International workshop on WirelessTraffic Measurements and Modeling, Program Committee IPSN Track on Sensor Platform, Tools and Design Methods for Networked Embedded Systems (SPOTS'06), Program Committee 10th IFIP International Conference on Personal Wireless Communications (PWC'05), Vice Chairman (Mobile Networks) Spring IEEE Vehicular Technology Conference Spring 2005, Technical Program Committee, Wireless Internet Conference 2005 (WICON 2005); Technical Program Committee, MobiQuitous 2004 (MobiQuitous 2004 Networking); Technical Program Committee for Wireless On-demand Network Systems 2004 (WONS'04); Technical Program Committee IFIP-TC6 Networking 2004 (Special Track on Mobile and Wireless Communications); Technical Program Committee Fifth IEEE Conference on Mobile and Wireless Communications Networks (MWCN 2003); Technical Program Committee International Conference on Pervasive Computing (PERVASIVE 2002); Technical program committee Fourth IEEE Conference on Mobile and Wireless Communications Networks (MWCN 2002); Technical Programme Committee IEEE Workshop on Local and Metropolitan Area (IEEE LANMAN 2002, LANMAN 2001, LANMAN 2000, LANMAN 1999); technical committee Workshop on Software Engineering for Wearable and Pervasive Computing held as part of the International Conference on Software Engineering 2000; committee member International Conference on Computers in Education /International Conference on Computer-Assisted Instruction 2000; program committee 3rd IEEE Workshop on Mobile Computing Systems and Applications (WMCSA 2000); Technical Programme Committee Workshop on Personal Wireless Communications (PWC2001, PWC2000, PWC1999); Program Committee HUC'99 Symposium - research symposium on "Handheld and Ubiquitous Computing"; Program Committee, Sixth IEEE International Workshop on Mobile Multimedia Communications (MOMUC'99); Program Committee and Session chairman MoMuC-5 (1998); Program Committee and Session chairman - 2nd Workshop on Personal Wireless Communications (Wireless Local Access) (PWC'96); Program Committee WebNet'96, WebNet'97, WebNet'98, and WebNet'99; Program Committee IFIP TC6 Task Group Wireless Communications, workshop on Personal Wireless Communications (Wireless Local Access) (1995); Scientific Committee ICC Regional Meeting on Wireless Computer Networks (1994); Program Committee IFIP (1994); Program Committee for 19th Annual International Symposium on Computer Architecture (1992); Scientific Committee for Information Processing in Medical Imaging (1991); Session chair (Artificial Intelligence Engines) National Computer Conference 1985.

*Conference Refereeing:* ACM SIGCOMM, ACM SIGGRAPH; ACM ASPLOS(-V); Hawaii International Conference on System Sciences; International Conference on Parallel Processing; Information Processing in Medical Imaging; IFIP; IEEE Personal, Indoor and Mobile Radio Communications; International Symposium on Computer Architecture (ISCA); The seventeenth annual International Symposium on Wearable Computers (ISWC 2013), Twelfth annual IEEE International Symposium on Wearable Computers (ISWC 2008), The sixteenth annual International Symposium on Wearable Computers (ISWC 2012), ICC Regional Meeting on Wireless Computer Networks; 9th World Congress on Medical Informatics (MedInfo'98), 10th Euromicro Workshop on Parallel, Distributed and Network-based Processing (PDP 2002), 30th Annual International Symposium on Computer Architecture (ISCA 2003), IEEE VTC 2003, IEEE International Conference on Communications (ICC 2004) Wireless Networking

## CV of G.Q. Maguire Jr.

Symposium, IEEE 5th Conference on Context Awareness for Proactive Systems: CAPS2012, IEEE International Conference on Computer Communication Networks (ICCCN 2012), E-NEXT (European FP6 Network of Excellence) Second International Workshop on Multimedia Interactive Protocols and Systems (MIPS 2004)

*Grant reviewing:* U. S. National Institutes of Health (special study sections), U. S. National Science Foundation, Natural Science and Engineering Research Council of Canada, Australian Research Council, Academy of Finland, Research Council of the Swiss National Science Foundation, Science Foundation Ireland, European Commission: DG INFSO Unit F2 FET-Open, L'Agence Nationale de la Recherche (France)

*Video Reviewing:* University Video Communications

*Reviewing:* Addison-Wesley, Addison-Wesley Longman, Columbia University Press, CRC Press, W. H. Freeman and Company, IEEE Computer Society, John Wiley & Sons, Morgan-Kaufmann, Pearson Education, Prentice-Hall, Van Nostrand Reinhold, Wadsworth Publishing

Reviewer for New York Academy of Sciences of research papers prepared by high school students in their summer Science Training Program

A judge for Fordham University's Graduate School of Arts and Sciences Research Competition 2012

*Standards:* IEEE P1596: Scalable Coherent Interface, commentor

*Fellow:* Institute of Electrical and Electronic Engineers

*Life Member:* Association for Computing Machinery, American Physical Society, New York Academy of Sciences, Phi Kappa Phi, Sigma Xi

*Member:* Sigma Pi Sigma

## *Grants and Contracts\**

### **Funded**

Mark T. Smith and G. Q. Maguire Jr., "Energy Buffering Using Near Field Wireless Infrastructure", grant from Wireless@KTH, 20kSEK.

Alisa Devlic, The Swedish Institute, funding for academic year 2005/2006 as a visiting doctoral student  
Equipment Grant, Intel Corporation, two Dell 450 Precisions Workstations and 29 WLAN access points, July 2003.

Grant for Applied Mobile Technology Solutions in Learning Environments, Hewlett-Packard Company, June 2003, a large number of PDAs for students (~US\$100K) and US\$10K for an intern.

Adaptive and Context-Aware Service research project at the Wireless Center during 2002-2005:  
1 MSEK per year {After the funding was received I formally withdrew my part of the project, because the level of funding was less that requested. However, I continued to participate in a sub-project.}

M.Sc. stipend for a student, Wireless@KTH, 50kSEK, Fall 2002.

Equipment Grant, Hewlett-Packard Corporation, June 1999, notebook computers for Teleinformatics majors

Equipment grant, Axis Communications AB, February 1998, network cameras, scan servers, CD server, and HD server.

Equipment Grant, Hewlett-Packard Corporation, Dec. 1997.

Mobile Internetworking Architecture, Ericsson Radio Systems, 1997, 1998, 1MSkr/year.

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\* A partial list.

CV of G.Q. Maguire Jr.

- Detection and Treatment of Cancer Using Radiolabeled Monoclonal Antibodies, Sun Microsystems Computer Corporation, 1 June 1997 to 31 May, 1998, \$55,500, for ongoing development of image fusion for detection and treatment of cancer.
- Equipment Grant, Hewlett-Packard Corporation, Distance Learning Initiative: "From Mobile Learning to Networked Mobile Computing" (E.U.), 21 April 1997, ~\$45K in equipment - split between KTH and H. W. Peter Beadle at University of Wollongong, Australia.
- MEDIA (partner with GMD/Fokus, IMEC, Ericsson Radio, Technical University of Braunschweig, Technical University of Tampere), EU Long Term Research (LTR) contact, September 1996 to August 1999, (KTH part is 538kECU + 439KSEK).
- Equipment Grant, Hewlett-Packard Corporation, February 1996, 5 notebook computers and interfaces.
- Equipment Grant, Hewlett-Packard Corporation, February 1996, 2 experimental DECT radios.
- Equipment Grant, Hewlett-Packard Corporation, December 1995, 100VG-Any-LAN hub and interfaces.
- Funding for Professorship in Computer Communications, L.M. Ericsson and Telia AB, full salary + research funds, (5 years).
- OnTheMove (partner with Ericsson, ...), EU ACTS contract, September 1995 to August 1998, 311kECU + ~500KSEK (from NUTEK).
- Walkstation II (jointly with Björn Pehrson, Frank Reichert, Hannu Tenhunen, and Jens Zander), NUTEK, July 1993 to July 1996, ~750,000 Skr/year.
- Image Fusion in Cancer Research, Sun Microsystems Computer Corporation, 1 June 1994 to 31 July, 1994, \$39,950, for development of image fusion techniques in cancer research.
- Image Fusion in Cancer Research, Sun Microsystems Computer Corporation, 1 April 1994 to 31 July, 1994, \$107,240, for development of image fusion techniques in cancer research.
- Detection and Treatment of Cancer Using Radiolabeled Monoclonal Antibodies, Sun Microsystems Computer Corporation, 1 October 1992 to 31 December, 1992, \$43,585.
- Corporate Grant (jointly with S. K. Feiner), Hewlett-Packard Corporation, January 1992, \$112,265
- Student Electronic Notebook Project (with D. J. Duchamp and S. K. Feiner), National Science Foundation, Center for Telecommunications Research, 1 February 1991 to 31 January 1992, students + offset.
- Corporate Grant, Hewlett-Packard Corporation, December 1990, \$20,000.
- High Definition Television (jointly with Dimitri Anastassiou, Martin Vetterli, and Omar Wing, New York State Science and Technology Foundation (NYSSTF) Center for Advanced Technology (CAT) Program, Columbia University: Computers and Information Sciences, 1 July 1990 to 30 June 1991, \$59,056.
- Student Electronic Notebooks project (jointly with Dan Duchamp, Steve Feiner, and Gail Kaiser), IBM Corporation, 1 July 1989 to 30 December 1990, \$1,247,785.
- Strategic Grants Program, Hewlett-Packard Corporation, April 1989, \$10,105.
- Strategic Grants Program, Hewlett-Packard Corporation, April 1989, \$7,000.
- Picture Archiving and Communication Systems (PACS), National Science Foundation, Center for Telecommunications Research, 1 January 1989 to 31 January 1990, ~\$45,000 (direct costs) + equipment.
- Strategic Grants Program, Hewlett-Packard Corporation, January 1989, \$36,450
- Strategic Grants Program, Hewlett-Packard Corporation, September 1988, \$120,000
- Strategic Grants Program, Hewlett-Packard Corporation, August 1988, \$58,475.
- Performance improvements for execution of a Page Description Language, New York State Science and Technology Foundation (NYSSTF) Center for Advanced Technology (CAT) Program, Columbia University: Computers and Information Sciences, 1 July 1988 to 30 June 1989, \$16,500

## CV of G.Q. Maguire Jr.

- Strategic Grants Program, Hewlett-Packard Corporation, May 4, 1988, \$2,550.
- Picture Archiving and Communication Systems (PACS), National Science Foundation, Center for Telecommunications Research, 1 November 1987 to 31 December 1988, \$63,000 (direct costs).
- Convolvotron, Hewlett-Packard Laboratories, Fall 1987, \$950.
- Nodecrest CX bitmapped Laser printer interface, Nodecrest Ltd., 1987, ~\$8,500 (5,000 Pounds Sterling).
- Award under U.S.-Industrialized Countries Program for the Exchange of Scientists and Engineers between the National Science Foundation of the United States and Foreign Counterpart Agencies in Industrialized Countries, National Science Foundation, January 1986 to June 1986, \$10,700.
- AI with Parallel Architectures, Hewlett-Packard Corporation, December 2, 1985 to December 2, 1988, \$2,256,350
- Proposal to Project Aurora: Improvement of Instruction in the VLSI Design Course Offered by the Computer Science Department, Project Aurora: A Columbia University/IBM Advanced Education Project, November 1, 1985, 3 workstations
- University Equipment Grant, VALID Logic Systems, Inc., October 1985, \$11,950.
- Proposal for the Special Purpose Grant Program, AT&T Bell Laboratories, October 31, 1985, \$25,000
- Faculty Development Award (renewal), IBM, 1985 to 1986, \$30,000.
- Travel Fellowship to attend the NATO Advanced Study Institute on Pictorial Information Systems, National Science Foundation (NSF), August 27, 1984 to September 7, 1984, \$752
- Faculty Development Award, IBM, 1984 to 1985, \$30,000.
- Grant to study in Sweden at the Karolinska Institute for the academic year 1983-1984, Fulbright-Hayes, September 1983 to July 1984, \$5,000. Extended three additional months
- University Research Fellowship, University of Utah, Fall 1981 to Spring 1982, \$3,500.
- Summer student grant at Brookhaven National Laboratory with the Lindenbaum/Ozaki High Energy Experimental Physics Group, Energy Research and Development Administration (ERDA), June 1975 to August 1975, \$1,500
- Summer student grant at Brookhaven National Laboratory with the Lindenbaum/Ozaki High Energy Experimental Physics Group, Atomic Energy Commission (AEC), June 1974 to August 1974, \$1,500.
- Summer Student Training Program; Probability and Computer Simulation Concepts, National Science Foundation, June 1971 to July 1971, \$500.

## *Books*

- [1] M. E. Noz and G. Q. Maguire Jr. *Radiation Protection in the Health Sciences. Second Edition.* World Scientific, Singapore, April 2007. 320 pages. ISBN 978-981-270-596-9 and ISBN 978-981-270-597-6 (paperback).
- [2] M. E. Noz and G. Q. Maguire Jr. *Radiation Protection in the Health Sciences.* World Scientific, Singapore, 1995. 304 pages. ISBN 981-02-2406-0 and ISBN 981-02-2407-9 (paperback).
- [3] M. E. Noz and G. Q. Maguire Jr. *Radiation Protection in the Radiologic and Health Sciences. Second Edition.* Lea and Febiger, Phila., Pa., 1985. 277 pages.
- [4] B. S. Baxter, L. E. Hitchner and G. Q. Maguire Jr. A Standard Format for Digital Image Exchange. American Association of Physicists in Medicine Series, Report number 10. N.Y., N.Y., 1982. ISBN 0-88218-408-7, ISSN 0271-7344, 11 pages. [http://www.aapm.org/pubs/reports/rpt\\_10.pdf](http://www.aapm.org/pubs/reports/rpt_10.pdf)

- [5] M. E. Noz and G. Q. Maguire Jr., *Radiation Protection in the Radiologic and Health Sciences*. Lea and Febiger, Phila., Pa., 1979. 218 pages.

*Publications (chapters in books)*

- [1] G. Q. Maguire Jr. and E. M. McGee, "Implantable Brain Chips? Time for Debate.", in *Biomedical Ethics: A Multidisciplinary Approach to Moral Issues in Medicine and Biology, An Anthology from the Lehey Clinic Journal Medical ethics*, David Steinberg (editor), University Press of New England, 2007, ISBN: 978-1-58465-643-2, pp. 164-168 and 171-172. {Reprint of the article of the same title which appeared in *Hastings Center Report*, 29(1): pp 7-13, 1999 and the reply to Daniel C. Dennett's "Dialogue: Implantable Brain Chips -- Will They Change Who We Are" which first appeared in the Spring 2001 issue of the same journal and which appears on pages 168-171 of this book.}
- [2] G. Q. Maguire Jr. and E. M. McGee, "Implantable Brain Chips? Time for Debate.", in *Health, Disease, and Illness: Concepts in Medicine* [(tentative title was) *Health, Disease, and Illness: Historical, Contemporary, and Emerging Discussions*], Arthur Caplan, James J. McCartney, and Dominic Sisti (editors), Georgetown University Press, June, 2004, ISBN: 1589010140. {Reprint of the article of the same title which appeared in *Hastings Center Report*, 29(1): pp 7-13, 1999.}
- [3] G. Q. Maguire Jr. and E. M. McGee, "Implantable Brain Chips? Time for Debate.", in *Computers and Ethics in the Cyberage*, D. Micah Hester and Paul J. Ford, eds., Prentice Hall, 2001, ISBN: 0-13-082978-1, pp. 129-141. {Reprint of the article of the same title which appeared in *Hastings Center Report*, 29(1): pp 7-13, 1999.}
- [4] J. Ioannidis and G. Q. Maguire Jr., The Design and Implementation of a Mobile Internetworking Architecture. eds. Dejan S. Milojevic, Frederick Douglass, and Richard G. Wheeler, *Mobility Processes, Computers, and Agents*, Addison-Wesley Pub Co., ACM Press Series, February 1999, 365-377. {Reprint of J. Ioannidis and G. Q. Maguire Jr., The Design and Implementation of a Mobile Internetworking Architecture. USENIX Winter 1993 Technical Conference, pages 491-502. USENIX Association, January, 1993.}
- [5] M.E. Noz and G.Q. Maguire Jr., Multimodality Image Correlation and Fusion, eds. E.L. Kramer and J. J. Sanger, *Clinical SPECT Imaging*, Raven Press, New York, NY, 1995, ISBN 9780781701907, pp. 79-95.
- [6] G. Q. Maguire Jr. Picture Archiving, Processing, and Communication (PACS). *The Computation of Dose Distribution in Electron Beam Therapy*. In Alan E. Nahum, Radiation Physics Department, Umeå University, 1985, pages 341-342, Lecture 18 in the course on methods of Computing Dose Distribution in Patients from External Electron Beams, Hällnäs, Sweden, March 1984, ISBN 91-7174-177-1.

*Publications (Journal articles)*

- [1] Henrik Lundblad, Charlotte Karlsson-Thur, Gerald Q. Maguire, Cathrine Jonsson, Marilyn E. Noz, Michael P. Zeleznik, and Lars Weidenhielm, 'Can Spatiotemporal Fluoride (18F-) Up-

- take be Used to Assess Bone Formation in the Tibia? A Longitudinal Study Using PET/CT', *Clinical Orthopaedics and Related Research*®, vol. 475, no. 5, pp. 1486–1498, May 2017. DOI: [10.1007/s11999-017-5250-8](https://doi.org/10.1007/s11999-017-5250-8)
- [2] Georgios P. Katsikas, Gerald Q. Maguire Jr., and Dejan Kostić, 'Profiling and accelerating commodity NFV service chains with SCC', *Journal of Systems and Software*, vol. 127, pp. 12–27, May 2017. DOI: [10.1016/j.jss.2017.01.005](https://doi.org/10.1016/j.jss.2017.01.005)
- [3] Volker Otten, Gerald Q. Maguire Jr., Marilyn E. Noz, Michael P. Zeleznik, Kjell G. Nilsson, and Henrik Olivecrona, 'Are CT Scans a Satisfactory Substitute for the Follow-Up of RSA Migration Studies of Uncemented Cups? A Comparison of RSA Double Examinations and CT Datasets of 46 Total Hip Arthroplasties', *BioMed Research International*, vol. 2017, pp. 1–11, 2017. DOI: [10.1155/2017/3681458](https://doi.org/10.1155/2017/3681458)
- [4] Georgios P. Katsikas, Marcel Enguehard, Maciej Kuźniar, Gerald Q. Maguire Jr, and Dejan Kostić, SNF: synthesizing high performance NFV service chains, *PeerJ Computer Science*, ISSN 2376-5992, 1-30 p., 2016. DOI: 10.7717/peerj-cs.98.
- [5] Young Suh Kim, Gerald Q. Maguire Jr., and Marilyn E. Noz, Do Small-Mass Neutrinos Participate in Gauge Transformations? *Advances in High Energy Physics*, ISSN 1687-7357, E-ISSN 1687-7365, 1-7 p., 1847620, 2016. DOI: 10.1155/2016/1847620
- [6] Cyrus Brodén, Henrik Olivecrona, Gerald Q. Maguire Jr., Marilyn E. Noz, Michael P. Zeleznik, and Olof Sköldenberg, Accuracy and Precision of Three-Dimensional Low Dose CT Compared to Standard RSA in Acetabular Cups: An Experimental Study. *BioMed Research International*, ISSN 2314-6133, E-ISSN 2314-6141, 5909741, 2016. DOI: 10.1155/2016/5909741
- [7] Henrik Olivecrona, Gerald Q. Maguire Jr., Marilyn E. Noz, Michael P. Zeleznik, Uldis Kesteris, and Lars Weidenhielm, A CT method for following patients with both prosthetic replacement and implanted tantalum beads: preliminary analysis with a pelvic model and in seven patients. *Journal of Orthopaedic Surgery and Research*, ISSN 1749-799X, E-ISSN 1749-799X, Vol. 11, 27, 2016. DOI: 10.1186/s13018-016-0360-7
- [8] Per Svedmark, Svante Berg, Marilyn E. Noz, Gerald Q. Maguire, Michael P. Zeleznik, Lars Weidenhielm, Gunnar Nemeth, and Henrik Olivecrona, 'A New CT Method for Assessing 3D Movements in Lumbar Facet Joints and Vertebrae in Patients before and after TDR', *BioMed Research International*, vol. 2015, pp. 1–9, 2015. DOI: 10.1155/2015/260703
- [9] Henrik Lundblad, Gerald Q. Maguire Jr., Charlotte Karlsson-Thur, Cathrine Jonsson, Marilyn E. Noz, Michael P. Zeleznik, Hans Jacobsson, and Lars Weidenhielm, 'Using PET/CT Bone Scan Dynamic Data to Evaluate Tibia Remodeling When a Taylor Spatial Frame Is Used : Short and Longer Term Differences', *BioMed Research International*, vol. 2015, pp. 1–11, 2015.
- [10] Martin Skeppholm, Per Svedmark, Marilyn E. Noz, Jr. Gerald Q. Maguire, Henrik Olivecrona, and Claes Olerud, 'Evaluation of mobility and stability in the Discover artificial disc : an in vivo motion study using high-accuracy 3D CT data', *Journal of EuroSurgery : Spine*, vol. 23, no. 3, pp. 383–389, 2015.



- [11] Dov Goldvasser, Viktor J. Hansen, Marilyn E. Noz, Gerald Q. Maguire Jr., Michael P. Zeleznik, Henrik Olivecrona, Charles R. Bragdon, Lars Weidenhielm, Henrik Malchau, "In vivo and ex vivo measurement of polyethylene wear in total hip arthroplasty", *Acta Orthopaedica*, ISSN 1745-3674, E-ISSN 1745-3682, Vol. 85, no 3, 271-275, 2014
- [12] Henrik Lundblad, Gerald Q. Maguire Jr., Henrik Olivecrona, Cathrine Jonsson, Hans Jacobsson, Marilyn E. Noz, Michael P. Zeleznik, Lars Weidenhielm, "Can Na18F PET/CT Be Used to Study Bone Remodeling in the Tibia When Patients Are Being Treated with a Taylor Spatial Frame?", *Scientific World Journal*, ISSN 1537-744X, Vol. 2014, 1-9, 2014
- [13] Gerald Q. Maguire Jr., Marilyn E. Noz, Henrik Olivecrona, Michael P. Zeleznik, and Lars Weidenhielm, "A New Automated Way to Measure Polyethylene Wear in THA Using a High Resolution CT Scanner: Method and Analysis," *The Scientific World Journal*, vol. 2014, Article ID 528407, 9 pages, 2014. doi:10.1155/2014/528407
- [14] Robert Hatherly, Fredrik Brodin, Åsa Oldner, Anders Sundin, Henrik Lundblad, Gerald Q. Maguire, Jr., Cathrine Jonsson, Hans Jacobsson, and Marilyn E. Noz, "Technical Requirements for Na18F PET Bone Imaging of Patients Being Treated Using a Taylor Spatial Frame", *J. Nucl. Med. Technol.*, January 16, 2014, doi:10.2967/jnmt.113.133082
- [15] Sara Janek Strååt, Björn Andreassen, Cathrine Jonsson, Marilyn E. Noz, Gerald Q. Maguire Jr., Peder Näfstadius, Ingemar Näslund, Frederic Schoenahl, and Anders Brahme, Clinical application of in vivo treatment delivery verification based on PET/CT imaging of positron activity induced at high energy photon therapy, *Physics in Medicine and Biology*, Volume 58, Number 16, 5541-5553, Institute of Physics and Engineering in Medicine, July 2013, doi:10.1088/0031-9155/58/16/5541.
- [16] D. Goldvasser, M. E. Noz, Gerald Q. Maguire Jr., H. Olivecrona, C. R. Bragdon, and H. Malchau, A New Technique for Measuring Wear in Total Hip Arthroplasty Using Computed Tomography, *The Journal of Arthroplasty*, 27 (9), October 2012, (epub 31 May 2012), pp. 1636-1640, DOI: 10.1016/j.arth.2012.03.053
- [17] P. Svedmark, T. Tullberg, M. E. Noz, G. Q. Maguire, M. P. Zeleznik, L. Weidenhielm, G. Nemeth, and H. Olivecrona, 'Three-dimensional movements of the lumbar spine facet joints and segmental movements: in vivo examinations of normal subjects with a new non-invasive method', *European Spine Journal*, vol. 21, no. 4, April 2012, (epub September 2011), pp. 599–605, DOI:10.1007/s00586-011-1988-y.
- [18] P. Svedmark, F. Lundh, G. Nemeth, M. E. Noz, G. Q. Maguire, M. P. Zeleznik, and H. Olivecrona, 'Motion analysis of total cervical disc replacements using computed tomography: Preliminary experience with nine patients and a model', *Acta Radiologica*, vol. 52, no. 10, pp. 1128–1137, October 2011, DOI:10.1258/ar.2011.110230.
- [19] Anneli Jedenmalm, Fritjof Nilsson, Marilyn E. Noz, Douglas D. Green, Ulf W. Gedde, Ian C. Clarke, Andreas Stark, Gerald Q. Maguire Jr., Michael P. Zeleznik, and Henrik Olivecrona, Validation of a 3D CT method for measurement of linear wear of acetabular cups: A hip simulator study, *Acta Orthopaedica*, February 2011, 82(1): 35-41, DOI:10.3109/17453674.2011.552777.

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## *Tutorials*

- G. Q. Maguire Jr. and Mark T. Smith, "Personal Computing & Communication: Beyond PCs, PDAs, Smart Phones, ...", 2002 International Zurich Seminar on Broadband Communications Access - Transmission - Networking, ETH Zurich, 18 February 2002, Zurich, Switzerland.
- G.Q. Maguire Jr.: Picture Archiving and Communications Systems: Progress and Current Problems, NATO Advanced Study Institute - Formation, Handling, and Evaluation of Medical Images, Póvoa de Varzim, Portugal, 12-23 September 1988, Invited as one of the principal speakers.
- G.Q. Maguire Jr., M.E. Noz, A. Bakker, K. Bijl, H. Didden and J.P.J. de Valk, Introduction to PACS for Those Interested in Image Processing, Tenth International Conference on Information Processing in Medical Imaging, Utrecht, The Netherlands, 22-26 June 1987, Invited Tutorial.
- G.Q. Maguire Jr., Picture Archiving and Communication Systems - all day tutorial, AZL, Leiden State University, Leiden, The Netherlands, 20 March 1986.
- G.Q. Maguire Jr., Local Area Networks: A General Introduction - all day tutorial, AZL, Leiden State University, Leiden, The Netherlands, 18 March 1986.
- G.Q. Maguire Jr., Local Area Networks - all day tutorial, Compint 85, Montreal, Canada, September 1985.
- G.Q. Maguire Jr., Local Area Networks: The Keystone of Picture Archiving and Communication Systems (PACS), IEEE Computer Society 1984 Joint International Symposium and Exhibition on Medical Images and Icons, Arlington, Virginia, July 1984, Invited Tutorial.



CV of G.Q. Maguire Jr.

G.Q. Maguire Jr., deScribing Scribe (a tutorial), Computer Science Department, Univ. of Utah, 6 May 1980. {a video of this talk was made and placed on reserve in the library}

### *Invited Lectures*

- G. Q. Maguire Jr., Communications when others are (probably) listening, Fria Moderata Studentförbundet, Stockholm, Sweden, 5 March 2016
- G. Q. Maguire Jr., Communications when others are (probably) listening, kår föreningen Högerteknologerna på KTH, Stockholm, Sweden, 25 March 2015.
- G. Q. Maguire Jr., Communications when others are (probably) listening, Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, March 2015 (video lecture).
- G. Q. Maguire Jr., Securing Voice over IP when others are (probably) listening, Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, 12 March 2014.
- G. Q. Maguire Jr. and M. E. Noz, Computing, Imaging, and Orthopedic Surgery, Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, 6 March 2013
- G. Q. Maguire Jr., Computing and Communication with an Economic View, IHP-Symposium: Wireless Engine – an idea on the way to realisation, Frankfurt (Oder), Germany, 13 February 2012
- G. Q. Maguire Jr., Computing and Communication with a view towards Privacy, Discoverability, Openness, and Publicity, Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, 9 March 2011
- G. Q. Maguire Jr., Data traffic is not (like) voice traffic, perhaps there is something to learn from existing data networks?, Ericsson Research, 18 June 2010.
- G. Q. Maguire Jr., Computing and Communication with an Economic View, For TeliaSonera's Broadband Business Area, 18 May 2010
- G. Q. Maguire Jr., Computing and Communication with an Economic View, Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, 3 March 2010.
- G. Q. Maguire Jr., Translational research, Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, 4 March 2009.
- G. Q. Maguire Jr., The Third Assignment ("Tredje uppgiften"), Lecture for the course: Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informationstechnologie (706.009), Technische Universität Graz, Graz, Austria, 5 March 2008.
- G. Q. Maguire Jr., Applying Computer Science to solve problems: step 1 - Picking a Problem, SACS: 30th Anniversary of Computer Science at Graz, Graz, Austria, 6 November 2007.
- G. Q. Maguire Jr., Digital Archiving: Visions for the Future - Tempered by past experience, Symposium Digital long-term Archiving: Use of and reliable access to digital information also in 200 years!, Das Bundeskanzleramt Österreich, das Österreichische Staatsarchiv und die Österreichische Nationalbibliothek, 18 April 2007.
- G. Q. Maguire Jr., Megatrends in communications, Draka Comteq, Nettal, Germany 12 February 2007.
- G. Q. Maguire Jr., Voice over IP in the era of Sarbanes-Oxley, Vinge Advokatfirma, Stockholm, Sweden, 22 March 2006.

CV of G.Q. Maguire Jr.

- G. Q. Maguire Jr., Future of Computers, Lecture for the course Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informatik (706.009), Technische Universität Graz, 1 March 2006.
- G. Q. Maguire Jr., Voice over IP in the era of Sarbanes-Oxley, At Nordea's Investor conference: VoIP - a new era for Telecom, Nordea, Stockholm, Sweden, 15 November 2005.
- G. Q. Maguire Jr., A Direct Brain Interface: What could it offer?, First International Congress on Cognitive Design, Lübeck, Deutschland, 22 September 2005.
- G. Q. Maguire Jr., Personal Computing and Communication: Personal integrity & privacy and some social issues of technology, Beckmans School of Design, Stockholm, Sweden, 29 August 2005.
- G. Q. Maguire Jr., Personal Computing and Communication: Personal integrity & privacy and some social issues of technology, Lecture for the course Societal Aspects of Information Technology - Gesellschaftliche Aspekte der Informatik (706.009), Technische Universität Graz, 2 March 2005.
- G.Q. Maguire Jr, "Personal Computing and Communications: Near future", Luleå tekniska universitet, Luleå, Sweden, 30 November 2004.
- G. Q. Maguire Jr., Mediated Communications, Lecture for the course ECE 8883A: Sensor Enabled Embedded System, Georgia Institute of Technology, 7 April 2004.
- G. Q. Maguire Jr., Voice over IP: Security and Mobility, IVA Syd, Lund, Sweden, 3 March 2004
- G. Q. Maguire Jr., Personal Computing and Communication: the near and far future, PodHolding, Stockholm, Sweden, 26 February 2004
- G. Q. Maguire Jr., Personal Computing and Communication: the near and far future, ELIS, Rome, Italy, 20 February 2004
- G. Q. Maguire Jr., Some trends in mobile personal computing and communication systems, Hagströmer & Qviberg Fondkommission AB, 30 January 2004
- G. Q. Maguire Jr., Latency & Privacy rather than Bandwidth & Constant Connectivity, panel on Ad Hoc Networks and the Wireless Internet, First International Workshop on Wireless On-demand Network Systems (WONS'04), Madonna di Campiglio, Italy, 21 January 2004
- G. Q. Maguire Jr., Personal Computing and Communication: It is more than just networking of mobile devices, Visit by Delegation from Trentino, 4 September 2003.
- G. Q. Maguire Jr., Personal Computing and Communication: It is more than just networking of mobile devices, Sandbacka Park, Sandviken, Sweden, 22 May 2003
- G. Q. Maguire Jr., Personal Computing and Communication: It is more than just networking of mobile devices, IT-breakfast Club, Fylgia, Stockholm, Sweden, 19 November 2002
- G. Q. Maguire Jr., The Future of Personal (Computing and) Communication: a somewhat European (nee Nordic) view, U. S. Defense Science Board: Wideband Radio Working group, 25 July 2002, Arlington, Virginia
- G. Q. Maguire Jr., Personal Computing and Communication: It is more than just networking of mobile devices, one of 3 keynote talks, Networking 2002: Second IFIP-TC6 Networking Conference, 24 May 2002, Pisa, Italy
- G. Q. Maguire Jr., Personal Computing and Communication: It is more than just networking of mobile devices, 20th NORDUnet Networking Conference, 15 April 2002, Copenhagen, Denmark
- G. Q. Maguire Jr., Broadband fixed and WLAN at home: Home is where my Home Agent is, Telia e-bolaget, 20 March 2002, Stockholm, Sweden
- G. Q. Maguire Jr., Vision for 2010, Seminar on Future Applications and their impact on the network, Ericsson Research, 20 March 2002, Stockholm, Sweden
- G. Q. Maguire Jr., The Plug to the Brain: Thoughts out of the Computer, one of 6 invited talks at Szenarien für morgen: "Homo ex machine - Visions of an Optimized Mankind", Wissenschaftszentrum Nordrhein-Westfalen, Düsseldorf, Germany, 12 December 2001.

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- G. Q. Maguire Jr., The Future of Personal Computing and Communication, Media Lab Europe, 13 November 2001, Dublin, Ireland
- Rudolph Berger, Bernt Ericson, Gerald Q. Maguire Jr., Stephen McClelland, Tom Standage, Ericsson's What's Next Broadband TV, Magazine #7, Theme: Visions of tech future, <http://www.ericsson.com/whatsnext>, Monday 8 November, 2001, a panel discussion.
- G. Q. Maguire Jr., Computers are our progeny, Future Of Computer Science Symposium (FOCSS), 8 June 2001, Graz, Austria
- G. Q. Maguire Jr., Personal Computing and Communication: Where are we headed?, Beyond 3G: Visions of the Future of Wireless, Inauguration of Wireless@KTH, 7 June 2001, Stockholm, Sweden
- G. Q. Maguire Jr., Personal Computing and Communication, Swiss Federal Institute of Technology (ETH), 15 May 2001, Zürich, Switzerland
- G. Q. Maguire Jr., Personal Computing and Communication, Telia Research, 9 May 2001, Stockholm, Sweden
- G. Q. Maguire Jr. and Mark T. Smith, Personal Computing and Communication: Post-PC Internet Appliances, Intensive Program System-on-Chip Design in Graz, 19 April 2001, Graz, Austria
- G. Q. Maguire Jr., The Future of Personal Computing and Communication, Forskning som formar vår framtid: Seminarium om SSF:s roll och verksamhet, 20 March 2001, Stockholm, Sweden
- G. Q. Maguire Jr., From Appliances to Accessories: a Glimpse of the Future, Mega-Marketing Day, Informationskollegiet, 5 March 2001, Stockholm, Sweden
- G. Q. Maguire Jr., Personal Computing and Communication, TU-Berlin, Feb. 14 2001, Berlin, Germany
- G. Q. Maguire Jr., Evolution of Computing and Communication in Sweden, Ardent winter workshop (Ardent 2001), in two parts on Jan. 18 and 19, 2001, Madonna di Campiglio, Italy
- G. Q. Maguire Jr., Broadband - Wired or wireless? Telia's Skanovadagen, 28 September 2000, Stockholm, Sweden
- G. Q. Maguire Jr., Personal Computing and Communication: How does the computer know its me and if I'm still here?, 'Digital Signatures And E-Business, The Hype And Reality', Celo Communications BV, 18 September, Utrecht/Nieuwegein, The Netherlands
- G. Q. Maguire Jr., Personal Computing and Communication, as part of the workshop Framework for Wireless Internet Innovation Center, IHP, 6 July 2000, Frankfurt am Oder, Germany
- G. Q. Maguire Jr., IP developments from a global perspective, Telia, 24 May 2000, Stockholm, Sweden
- G. Q. Maguire Jr., IP developments from a global perspective, Telia (internal), 23 May 2000, Stockholm, Sweden
- G. Q. Maguire Jr., The role of personal communication in the digital economy, Telia Prosoft, 16 May 2000, Stockholm, Sweden
- G. Q. Maguire Jr., Nätverk och tjänster, C4, FMV, Stockholm, Sweden, 5 April 2000.
- G. Q. Maguire Jr., "Personal Computing and Communication: Broadband and mobile networks, implications for electronic publishing", Samrådsmöte 2 omkring Elektronisk publicering inom miljö- och naturresurssektorn i Sverige, Sveriges lantbruksuniversitet (SLU), 3 February 2000, Stockholm, Sweden
- G. Q. Maguire Jr., "Personal Computing and Communication: Personal post-PC appliances + Applications", Signals and Systems Group, Uppsala University, 2 February 2000, Uppsala, Sweden
- G. Q. Maguire Jr., "Personal Computing and Communication: Personal post-PC appliances + Applications", Cell Network Stockholm AB, 31 January 2000, Stockholm, Sweden
- G. Q. Maguire Jr., How far can we stretch our minds, Ericsson AS, 7 December 1999, Billingstad, Norway

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- G. Q. Maguire Jr., How far can we stretch our minds, Sema Group, InfoData, 6 December 1999, London, England
- G. Q. Maguire Jr., Wearable computing and communication, LARK, 28 November 1999, Kista, Sweden
- G. Q. Maguire Jr., Personal Computing and Communication, Bell Labs, Lucent Technologies, 3 November 1999, Murray Hill, NJ, USA
- G. Q. Maguire Jr., Implantable Brain Chips, Transforming Humanity II: The Science and Ethics of Enhancement, Long Island University - CW Post Campus, 16 October 1999.
- G. Q. Maguire Jr., Implantable Brain Chips, Transforming Humanity I: The Science and Ethics of Enhancement, Long Island University - CW Post Campus, 15 October 1999.
- G. Q. Maguire Jr., Personal Computing and Communication: the virtual convergence of telecom and datacom for new services, The Future Course - Scandinavian Executive Seminars by Telia, World Telecom '99, 12 and 13 October 1999, Geneva, Switzerland
- G. Q. Maguire Jr., Personal Computing and Communication: Applications, Institute for Semiconductor Physics, 1 October 1999, Frankfurt (Oder), Germany
- G. Q. Maguire Jr., "Personal Computing and Communication: Personal post-PC appliances + Applications", Celo seminar: "A PKI Security Conference by the Experts", 23 September 1999, Stockholm, Sweden
- G. Q. Maguire Jr., How far can we stretch our minds, Ericsson Executive Briefing, 30 September 1999, Stockholm, Sweden
- G. Q. Maguire Jr., A number of mobile data applications in order to stimulate your imagination, Networks Telecom '99, 15 September 1999, Stockholm, Sweden
- G. Q. Maguire Jr., "Personal Computing and Communication: Personal post-PC appliances + Applications", Technical Research Center of Finland & University of Oulu, 8 September 1999, Oulu, Finland.
- G. Q. Maguire Jr., "Personal Computing and Communication: Personal post-PC appliances + Applications", IBM Zurich Research Labs, 29 July 1999, Yorktown Heights, NY.
- G. Q. Maguire Jr., "Personal Computing and Communication: Personal post-PC appliances + Applications", IBM T. J. Watson Research Labs, 6 July 1999, Yorktown Heights, NY.
- G. Q. Maguire Jr., The future, First Telecom, 15 June, 1999, Paris, France
- G. Q. Maguire Jr., Personal post-PC appliances, The Fifth Annual Workshop on Frontiers in Distributed Information Systems, FDIS: Aspen '99, 9 June 1999, Aspen, Colorado
- G. Q. Maguire Jr., Personal Computing and Communication, ABB client Seminar, 3 June 1999, Västerås, Sweden
- G. Q. Maguire Jr., Future scenarios of usage of wireless data, Ericsson GSM Datacom Conference, 2 June. 1999
- G. Q. Maguire Jr., Market of new Telecommunication Products and/or Services: Personal Computing and Communication, Athens University, course: "Quantitative methods applied to Marketing", 14 May 1999, Stockholm-Athens- Samos
- G. Q. Maguire Jr., Personal Computing and Communication, including an introduction to future (3GW, 4GW) mobile communication systems, Global Project Coordination course, 29 April 1999, KTH- Stanford-NUS
- G. Q. Maguire Jr., Personal Computing and Communication, Allgon Mobile Communication AB, 27 April 1999, Stockholm, Sweden
- G. Q. Maguire Jr., Personal Computing and Communication, Ellemtel's TeleLiving3G - Scenario workshop, 16 February 1999, Stockholm, Sweden
- G. Q. Maguire Jr., Personal Computing and Communication: The Near Future, Consafe Infotech AB, 3 February 1999, Stockholm, Sweden

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- G. Q. Maguire Jr., Personal Computing and Communication, Allgon Mobile Communication AB, Åkersberga, Sweden, 15 January 1999.
- G. Q. Maguire Jr., Personal Computing and Communication, O2Media, Stockholm, Sweden, 14 December 1998.
- G. Q. Maguire Jr., Personal Computing and Communication (“El cambio en la Tecnología”), Ericsson Spain, Madrid, Spain, 11 December 1998.
- G. Q. Maguire Jr., Personal Computing and Communication, the Near Future, SRKA ’99, Framtidens mobiltelefoni, Stockholm, Sweden, 9 December 1998.
- G. Q. Maguire Jr., The "Intelligent Person": Personal Computing and Communication, Ericsson Software Technology, Karlskrona, Sweden, 1 December 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication*, Allgon AB, Täby, Sweden, 30 November 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication*, Webnet98, Orlando, Florida, USA, 10 November 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication: the Near Future*, Celo Communications AB, Garda, Italy, 15 October 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication*, MoMuC-5, Berlin, Germany, 13 October 1998, invited panel presentation.
- G. Q. Maguire Jr., *Personal Computing and Communication: the Near Future*, Telia Corporate IT, Farsta, Sweden, 3 September 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication: the Near Future* (“Hacia donde vamos”), Las telecomunicaciones y la nueva era económica, Santander, Spain, 1 September 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication: Access Points*, Ericsson Business Communications, Friiberghs Herrgård, Öresundsbro, Sweden, 18 August 1998.
- C.L. Aitken, R.J.T. Gorniak, E.L. Kramer, M.E. Noz, E.J. Farrell, G.Q. Maguire Jr., and D.P. Reddy. Comparison of three methods used for fusion of SPECT-CT images of liver metastases. Fusion98, International Conference on Multisource-Multisensor Information Fusion, Las Vegas, Nevada, 6-9 July 1998.
- G. Q. Maguire Jr., Opportunities and challenges: What will the impact be?, *Fixed-Mobile Multimedia: Evolution or Revolution*, International Conference, Swedish Pavilion Auditorium, Expo’98, Lisbon, Portugal, 5 June 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication, the Near Future*, Karlskrona-Ronneby Tekniska Högskola, 27 May 1998.
- Gerald Q. Maguire Jr., Mark T. Smith, and H. W. Peter Beadle, SmartBadges: a wearable computer and communication system, Stanford University, Stanford, California, 8 May 1998.
- G. Q. Maguire Jr., *Personal Computing and Communication, the Near Future*, Estonian Infoscape’98, Tallinn, Estonia, 29 April 1998.
- Gerald Q. Maguire Jr., Mark T. Smith, and H. W. Peter Beadle, SmartBadges: a wearable computer and communication system, 6th International Workshop on Hardware/Software Co-Design (CODES/CASHE ’98 ), Seattle, Washington, 16 March 1998.
- G. Q. Maguire Jr., Glimpses of Future Networks, Axis Communication AB, Telecommunication, Lund, Sweden, 12 February, 1998.
- G. Q. Maguire Jr., The Changing World (of Data Communications), Ericsson Datacom Networks Sales Conference, Telecommunication, Bad Reichenhall, Germany, 5 February 1998.
- G. Q. Maguire Jr., “Computing and Communication Systems: A Personal View”, Telematik-Ingenieur-Kongress, 18 October 1997, Graz, Austria.

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- G. Q. Maguire Jr., "Computing and Communication Systems: A view from Sweden", Transformations in Information Technology in Finland and Sweden, Columbia University, NY, NY, 7 October 1997.
- G. Q. Maguire Jr., "Smart Badges and Access Points", Lunds Tekniska Högskola, 2 October 1997.
- G. Q. Maguire Jr., "Future of Data Communications", Ericsson Kick-off, Stockholm, Sweden, 25 Sept. 1997.
- G. Q. Maguire Jr., "The future of Mobile communication", Networks Telecom 97, Seminar on Mobile Visions, Älvsjö, Sweden, 25 September 1997.
- G. Q. Maguire Jr., Future Communication System Architecture and Services, Arlanda Telecom Interactive-97, Arlanda, Sweden, 11 September 1997.
- G. Q. Maguire Jr., Glimpses of Future Networks, Siemens AB, Telecommunication, Sandham, Sweden, 29 August, 1997.
- G.Q. Maguire Jr. and M.E. Noz, How to Get Images Out of the Equipment, Archive Them, Manipulate Them, and Make Them Available. Annual Meeting of the Am. Assoc. of Physicists in Medicine, Milwaukee, WI, 27-31 July 1997.
- G. Q. Maguire Jr., panelist, Technology Forecast - Looking into the crystal ball, Scandinavian Interactive Media Event, Stockholm, Sweden, 22 May 1997.
- G. Q. Maguire Jr., Glimpses of the Future of Computer Networks, Department of Computer Science and Engineering, Helsinki University of Technology, Espoo, Finland, 20 May 1997.
- G. Q. Maguire Jr., Glimpses of the Future of Computer Networks, Exportrådets Regi and BGI Joanneum Research, visit at Electrum Kista, Sweden, 18 May 1997.
- G. Q. Maguire Jr., The next steps for Mobile Computing and Communication, MWCN'97, First International Workshop On Mobile and Wireless Communications Networks, Sorbonne, Paris, France, 14 May 1997.
- G. Q. Maguire Jr., H.W. Peter Beadle, and M.T. Smith, Glimpses of the Future of Computer Networks: The SmartBadge, Ericsson Components, FORC (Fiber Optic Research Center), Kista, Sweden, 25 April 1997.
- G. Q. Maguire Jr., Glimpses of the Future of Computer Networks, Telia/National Telephony, Farsta, Sweden, 25 April 1997.
- G. Q. Maguire Jr., Glimpses of the Future of Computer Networks, OnTheMove workshop on Mobile Multimedia, Münster, Germany, 16 April 1997.
- G. Q. Maguire Jr., Glimpses of the Future of Computer Networks, Ericsson Components, FORC (Fiber Optic Research Center), Kista, Sweden, 28 February, 1997.
- G. Q. Maguire Jr., Glimpses of the Future of Computer Networks, as a lecture in the course on Interactive Media, University College of Film, Radio, Television and Theatre (DI) and The Graphics Institute / Graduate School of Communication (GI/IHR), Stockholm, Sweden, 26 February 1997.
- G. Q. Maguire Jr., Networks today and tomorrow, IBM Forum, Kista, Sweden, 13 February 1997.
- G. Q. Maguire Jr., Trender och framtidsyn, Ericsson Mobile Communication (RMOT), Barnens ö, Sweden, 11 February 1997.
- G. Q. Maguire Jr., lecture title: "Near Future Telecommunications" and participant in a panel debate on "The future impact of computers in the arts", Konstfack, Stockholm, Sweden, 7 February 1997.
- G. Q. Maguire Jr., Future communication system architecture and services?, ERA (T/N), Kista, Sweden, 3 February 1997.
- G. Q. Maguire Jr., Trender och framtidsyn, Samarbete inom Multimedia och Internet Access, Ellemtel, 29 January, 1997.
- G. Q. Maguire Jr., Near Future Telecom Systems, FMV, On the occasion of "Utnämning av Ralph Persson till Strategisk specialist", 23 January, 1997.

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- G. Q. Maguire Jr., Near Future of Mobile Telecommunications Services, Karlskrona-Ronneby Tekniska Högskola, 12 December, 1996.
- G. Q. Maguire Jr., Near Future of Mobile Telecommunications Services, Telia AB, Kista, Sweden, 5 December 1996.
- G. Q. Maguire Jr., Near Future of Mobile Telecommunications Services: Glimpses of the Future of Computer Systems, Informix Software AB, Kista, Sweden, 29 November 1996.
- G. Q. Maguire Jr., Near Future of Mobile Telecommunications Services: Glimpses of the Future of Computer Systems, Technology Forecast Conference: Entertainment, Media, and Communications Industry, Electrum Foundation, Kista, Sweden, 20 November 1996.
- G. Q. Maguire Jr., "Glimpses of the Future of Computer Networks", Web 96 conference, San Francisco, California, 16 October 1996.
- G. Q. Maguire Jr., Near Future of Mobile Telecommunications Services, KTH, seminar for seminariegrupp 3 SRKA-97, 8 October 1996.
- G. Q. Maguire Jr., Near Future of Mobile Telecommunications Services, seminar for management group of Digital Sweden, 7 October 1996.
- G. Q. Maguire Jr., What's in the {near} future (for mobile telecommunication services)?, STF, Stockholm, Sweden, 18 Sep. 1996 {given via teleconference equipment from Bristol, England}.
- G. Q. Maguire Jr., What's in the {near} future (for mobile telecommunication services)?, STF Telekom Dagarna96: Mobila teletjänster för ditt jobb, Stockholm, Sweden, 22 May 1996.
- G. Q. Maguire Jr., Vision of mobile data services beyond 2000 A.D., Technische Universität Graz, 20 May 1996.
- G. Q. Maguire Jr., Toward the Implantable Walkstation, Media Lab, MIT, Boston, MA, 9 April, 1996.
- G. Q. Maguire Jr., Future wireless data network architectures, Ericsson Wireless Data Seminarium, Kista, Sweden, 21 March 1996.
- G. Q. Maguire Jr., How to be in multiple places at one time and even more places at other times!, KTH@Stanford Workshop, Stanford, University, 5 March 1996.
- G. Q. Maguire Jr., Toward the Implantable Walkstation, HP Laboratories, Bristol, England, 14 February, 1996.
- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, Cap Programmator, 7 February, 1996.
- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, Sectra AB, 19 January, 1996.
- G. Q. Maguire Jr., Vision of mobile data services beyond 2000 A.D. , as part of a half day seminar at Ericsson Mobile Communications, Kista, Sweden, 22 December 1995.
- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, Sektionen för Elektroteknik och Datateknik, Lunds Tekniska Högskola, 19 December, 1995.
- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, Karlskrona-Ronneby Tekniska Högskola, 15 December, 1995.
- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, Sun Microsystems (Sweden), 14 December, 1995.
- G. Q. Maguire Jr., Vision of mobile data services beyond 2000 A.D. ("Hur ser de mobila datatjänsterna ut efter år 2000?"), as part of Update seminar: *Mobila kontoret*, STF Ingenjörutbildning AB, Stockholm, Sweden, 7 December 1995.
- G.Q. Maguire Jr., The Walkstation II Project, as part of *Bredbandskommunikation och informationsteknologi: status och utvecklingstrender*, Kongliga Elektrosektionens Studieresa 1996, KTH, Stockholm, Sweden, 26 September 1995.
- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, GMD-FOKOS, Berlin, Germany, June 23, 1995.

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- G. Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, ED-Media 95, Graz, Austria, June 17-21, 1995.
- G. Q. Maguire Jr., Toward the Implantable Walkstation (Briefing), Meeting organized by Försvarets materielverk (FMV) for visit of the U.S. Air Force's Chief Scientist (Dr. E. Feigenbaum), Stockholm, Sweden, 12 June, 1995.
- Gerald Q. Maguire Jr., Mark T. Smith, Tomoki Osawa, Walkstation II project, 2nd International Workshop on Mobile Multi-Media Communications Workshop, Bristol, England, April 1-13, 1995.
- G.Q. Maguire Jr., IT's Future: Looking towards C&C, MICE seminar and seminar for Medical Radiation Physics (Stockholm University), Stockholm, Sweden, 14 March 1995.
- G.Q. Maguire Jr., IT's Future: Looking towards C&C, Ericsson Components (Management team), Stockholm, Sweden, 14 March 1995.
- G. Q. Maguire Jr., Toward the Implantable Walkstation (Briefing), Meeting organized by Försvarets materielverk (FMV) for visit of the U.S.A.F.'s Chief Scientist (Dr. E. Feigenbaum), Stockholm, Sweden, 12 June, 1995.
- G.Q. Maguire Jr., IT's Future: Looking towards C&C, FinansTidningen, Stockholm, Sweden, 8 February 1995.
- G.Q. Maguire Jr., Introduction to the Internet, as part of *Internet: Ett seminarium om infrastrukturen i morgonsdagens IT-samhälle*, Kongliga Datasektionens Studieresa 1995, KTH, Stockholm, Sweden, 2 February 1995.
- G.Q. Maguire Jr., Future Mobile Services, as part of *från Mobiltelefoni till Multi-media*, KTH vetenskapsseminariet, KTH, Stockholm, Sweden, 1 February 1995.
- G.Q. Maguire Jr., IT's Future: Looking towards C&C, Department of Electrical Engineering, University of Pennsylvania, Philadelphia, Pennsylvania, 26 January 1995.
- G.Q. Maguire Jr., The Future of Telecommunications, Ericsson Radio AB, Media Lab Annual Meeting, Stockholm, Sweden, 19 December 1994.
- G.Q. Maguire Jr., Wireless LANs: Mobileterminaler - Radiodatanät, STF Ingenjörutbildning AB, Stockholm, Sweden, 16 December 1994.
- G.Q. Maguire Jr., IT's Future: Looking towards C&C, Volvo, Göteborg, Sweden, 16 December 1994.
- G.Q. Maguire Jr., Center for Strategic Research in Computing and Communication Systems and the Walkstation, Telia Research AB, Network Development Division Annual Meeting, Umeå, Sweden, 2 December 1994.
- G.Q. Maguire Jr., Walkstation approach for mobile data communication, Swedish-Finnish Workshop in Microelectronics for Mobile Radio, Sigtuna, Sweden, 1 December 1994.
- G.Q. Maguire Jr., Wireless (Trådlösa) LANs, Mobile Datakommunikation: Ur utvecklings- och konstruktionsperspektiv, STF Ingenjörutbildning AB, Stockholm, Sweden, 2 November 1994.
- G. Q. Maguire Jr., B. Ottersten, H. Tenhunen, and J. Zander. Future wireless computing & communication. Nordic Workshop on Radio Communication Networks, (NRS-Seminarium Radiokommunikationsnät) Konferensdokumentation, Linköping, Sweden, pp. 57-61, October, 25-26 1994.
- G.Q. Maguire Jr., Technologies for Portable Applications: Toward the Implantable Walkstation, Nordisk seminar om lav-effekt højhastigheds elektronik, Danish Technical University, 11 October 1994.
- G.Q. Maguire Jr., MINT - A Mobile Internet Router, EECS Department, Stevens Institute of Technology, Hoboken, New Jersey, 30 March 1994.
- G.Q. Maguire Jr., MINT - A Mobile Internet Router, 1st Workshop on Mobile Computing and Communication, Royal Institute of Technology, Stockholm, Sweden, 9 March 1994.



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- G.Q. Maguire Jr., Education+Work at Home or Options for the “last mile”, Visit to Electrum by Stig Hagstrom and Anitra Steen, Royal Institute of Technology, Stockholm, Sweden, 11 February 1994.
- G.Q. Maguire Jr., Introduction to the KTH Walkstation Project and What is a MINT, Tampere Institute of Technology, Tampere, Finland, 3 February 1994.
- G.Q. Maguire Jr., Radio network for multimedia services, Multimedia - Kommunikation, STF Ingenjörutbildning AB, Stockholm, Sweden, 14 December 1993.
- G.Q. Maguire Jr., Mobile Data, RLANs: from Mobitex to the Walkstation, Seminarium Den Nya Mobiliteten: Framtida System ock Tjänster för Personalkommunikation, Telia, Stockholm, Sweden, 6 December 1993.
- G.Q. Maguire Jr., Some thoughts on the concept of the virtual classroom?, SiREN meeting, Göthenberg, Sweden, 30 November 1993.
- G.Q. Maguire Jr., The Walkstation project - status and plans, SiREN meeting, Göthenberg, Sweden, 1 December, 1993.
- G.Q. Maguire Jr., Utbildning via telenät, Seminarium Interaktiva Tjänster, Royal Institute of Technology, Stockholm, Sweden, 23 November 1993.
- G.Q. Maguire Jr., Switching vs. Routing, Ellemtel, Älvsjö, Sweden, 19 November, 1993.
- G.Q. Maguire Jr., State of the art in Mobile Personal Computing & Communication, MICE seminar (a distributed seminar) carried via MBONE to UCL in London, USIT/UNIK/NTR in Oslo, Norway, KTH and SICS in Stockholm, 19 October 1993.
- G.Q. Maguire Jr., Walkstations, Telekom Dagarna 93, STF Ingenjörutbildning AB, Stockholm, Sweden, 1-3 June 1993.
- G.Q. Maguire Jr.,The Swedish Electronic Notebook/Walkstation: a first step, Technische Universität Graz, Austria, 23 November 1992.
- G.Q. Maguire Jr.,The Students Electronic Notebook-project, Royal Institute of Technology, Stockholm, Sweden, Det Trådlösa telesamhället, 18 November 1992.
- G.Q. Maguire Jr.,The Swedish Electronic Notebook/Walkstation: a first step, Royal Institute of Technology, Stockholm, Sweden, on the occasion of the 75th Anniversary of the university moving to its current site, 21 October 1992.
- G.Q. Maguire Jr., The Swedish Electronic Notebook/Walkstation: a first step, Hewlett-Packard Laboratories, Bristol, England, 25 September 1992.
- G.Q. Maguire Jr.,The Personal Information Portal: an electronic notebook, Dept. of Telecommunications and Computer Systems, Royal Institute of Technology, Stockholm, Sweden, 12 June 1991.
- Marilyn E. Noz and G.Q. Maguire Jr., Portable Software for Medical Image Analysis, Sun Microsystems, Life and Physical Sciences Group, SIGMA91, San Francisco, CA,16 May 1991.
- G.Q. Maguire Jr.,Why Waste Perfectly Good Space On Libraries? (When The Alternative Is The Use Of Wireless Personal Information Portals), Hewlett-Packard Research Laboratory, Palo Alto, CA, 11 April 1991.
- G.Q. Maguire Jr., Daniel J. Duchamp, and Steven K. Feiner, Why Waste Perfectly Good Space On Libraries? (When The Alternative Is The Use Of Wireless Personal Information Portals), National Science Foundation, Washington, D.C., 7 February 1991
- G.Q. Maguire Jr., Demo of the Student Electronic Notebook, NSF Workshop on Microelectronic Systems Education in the 1990's, Washington, D.C., 29 October 1990.
- G.Q. Maguire Jr., Why Waste Space on Libraries?, ASIS: Metropolitan New York Chapter, “Information Technology for the 90's, 14 September 1990.
- G.Q. Maguire Jr., Student Electronic Notebook, Swedish Institute of Computer Science, Nässlingen, Sweden,17 August 1990.

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- G.Q. Maguire Jr., Software Portability and Image Formats, Idaho National Engineering Laboratory, Idaho Falls, Idaho, 24 July 1990.
- G.Q. Maguire Jr., The Personal Information Portal: an electronic notebook, National Science Foundation, MIPS Division, 11 July 1990.
- J. Peter Bade, G.Q. Maguire Jr., and David F. Bantz, The IBM/Columbia Student Electronic Notebook Project, IBM, T. J. Watson Research Lab., Yorktown Heights, NY, 29 June 1990.
- G.Q. Maguire Jr., The Personal Information Portal: an electronic notebook, Dept. of Chemistry, Columbia University, 27 June 1990.
- G.Q. Maguire Jr., PACS and Multimodality Imaging, International Symposium on Digital Imaging in Orthopaedic Surgery, St. Petersburg, Florida, 19-21 April 1990.
- G.Q. Maguire Jr. and M.E. Noz, Image Processing, Quantification, Analysis and Display for Nuclear Medicine, Medical Physics Research Workshop, Memorial-Sloan Kettering Cancer Center, 22 January 1990.
- G.Q. Maguire Jr. and M.E. Noz, Optimizing A Distributed Environment for the Analysis of Medical Images, Nuclear Medicine Division Seminar, Memorial-Sloan Kettering Cancer Center, 22 January 1990.
- G.Q. Maguire Jr. and George Wolberg with Norman Chin and David J. Kurlander, Image Processing: Warping, QSH, PACS, NeWS, X/NeWS, and a Postscript Accelerator, 1989 Computer Graphics Symposium, Hewlett-Packard Corporation, Ft. Collins, Colorado, 14-15 June 1989.
- G.Q. Maguire Jr. & M.E. Noz, Optimizing the Three-Dimensional Analysis of Medical Images, Biomedical Imaging Group Seminar, University of Massachusetts, Worcester, MA, 13 April 1989.
- G.Q. Maguire Jr. & M.E. Noz, Optimizing a Distributed Environment for the Analysis of Medical Images, Radiology Department Research Conference, Yale University, New Haven, CT, 11 April 1989.
- G.Q. Maguire Jr., My Odysseys: Six years since Utah, University of Utah, Department of Computer Science, 2 March 1989.
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- G.Q. Maguire Jr., S.C. Horii, M.E. Noz, J.H. Schimpf and M.P. Zeleznik, Message protocols for radiologic consultations over a local area network, Picture Archiving and Communication Systems (PACSII) for Medical Applications, Kansas City, Missouri, May 1983.
- M.P. Zeleznik, G.Q. Maguire Jr., B.S. Baxter, M.E. Noz, J.H. Schimpf and S.C. Horii, PACS user level requirements, Picture Archiving and Communication Systems (PACSII) for Medical Applications, Kansas City, Missouri, May 1983.
- S.C. Horii, J.H. Schimpf, G.Q. Maguire Jr., M.P. Zeleznik and M.E. Noz, Broadband coaxial cable image viewing and processing for radiology, Picture Archiving and Communication Systems (PACSII) for Medical Applications, Kansas City, Missouri, May 1983.
- M.P. Zeleznik, G.Q. Maguire Jr. and B.S. Baxter, PACS data base design, Picture Archiving and Communication Systems (PACSII) for Medical Applications, Kansas City, Missouri, May 1983.
- G. Q. Maguire Jr., Picture Archiving and Communication System, Joint Research Symposium, Columbia University and IBM Research, White Plains, NY, 7 March 1983.
- S.C. Horii, M.E. Noz, G.Q. Maguire Jr., J.H. Schimpf, M.P. Zeleznik, L.E. Hitchner and B.S. Baxter, A Unified Digital Image Distribution and Processing System, Annual Meeting of the Radiological Society of North America, Chicago, Ill., 1982.
- S.C. Horii, M.P. Zeleznik, G.Q. Maguire Jr., J.H. Schimpf, L.E. Hitchner, M.E. Noz and B.S. Baxter, A Simple Feasibility Demonstration of a Local Area Network for a Digital Imaging Department, ISMIII'82, Berlin, Germany, 1982.
- S.C. Horii, M.E. Noz, J.H. Schimpf and G.Q. Maguire Jr., Unification of Images from Diverse Modalities, Medcomp'82, 1982.
- G.Q. Maguire Jr., S.C. Horii, J.H. Schimpf, M.E. Noz, M.P. Zeleznik, B.S. Baxter and L.E. Hitchner, A Digital Radiology Department, Annual Meeting of the American Association of Physicists in Medicine, New Orleans, LA, 1982.
- G.Q. Maguire Jr., Brent S. Baxter and Lewis E. Hitchner, An AAPM standard magnetic tape format for digital image exchange, S.P.I.E., First International Conference on Picture Archiving and Communication Systems (PACS) for Medical Applications, Newport Beach, CA, January 1982.
- B. S. Baxter, L. E. Hitchner and G.Q. Maguire Jr., Characteristics of a protocol for the exchange of digital image information, S.P.I.E., First International Conference on Picture Archiving and Communication Systems (PACS) for Medical Applications, Newport Beach, CA, January 1982.
- J.H. Schimpf, S.C. Horii, G.Q. Maguire Jr. and M.E. Noz, A Unified Digital Image Display and Processing System, SPIE, Conference on Digital Radiography, Stanford University, Palo Alto, CA, September 1981.
- G.Q. Maguire Jr., J.H. Schimpf, S.C. Horii and M.E. Noz, A Unified Digital Imaging Display and Processing System, American Association of Physicists in Medicine Annual Meeting, Boston, MA, August 1981.
- G.Q. Maguire Jr., J.H. Schimpf, S.C. Horii, and M.E. Noz, Application of Image Chain Analysis Techniques to Gamma Camera MTF Measurements, Annual Meeting of the American Association of Physicists in Medicine, Atlanta, GA, 1979.
- G.Q. Maguire Jr., Pattern Direct, Goal Directed, and Funding Directed Programs in Program Transformation, Report on the 2nd International Program Transformation Workshop, Harvard University, 5-7 Sept. 1979.
- M.L. Griss, R.R. Kessler and G.Q. Maguire Jr., TLISP - A 'Transportable LISP' Implemented in P-code, 1979 European Symposium on Symbolic and Algebraic Manipulation, Marseille, France, June 1979, pages 490-502.
- G.Q. Maguire Jr., J.H. Schimpf, S.C. Horii, and M.E. Noz, A Modular Approach to Image Chain Analysis of a Computer-Based Nuclear Medicine/Ultrasound System: The Gamma Camera, Annual Meeting of the American Association of Physicists in Medicine, San Francisco, CA, 1978.

CV of G.Q. Maguire Jr.

- G.Q. Maguire Jr., J.H. Schimpf, S.C. Horii, and M.E. Noz, A Modular Approach to Image Chain Analysis of a Computer-Based Nuclear Medicine/Ultrasound System. Part I: Overview, Part II: The Analog to Digital, Multiplexer Subsystem, Annual Meeting of the Radiology Society of North America, Chicago, Ill., 1977.
- J.H. Schimpf, G.Q. Maguire Jr., M.E. Noz, A Modular Computer System for the Nuclear Medicine/Ultrasound Laboratory, Annual Meeting of the Radiology Society of North America, Chicago, Ill., 1976.
- J.H. Schimpf, G.Q. Maguire Jr., S.C. Horii and M.E. Noz, Design and Construction of a Microdensitometer Computer Interface, Presented at the 29th Annual Conference on Engineering in Medicine and Biology, Boston, MA, November 1976.
- R. Chandra, S. Lo, G.Q. Maguire Jr. and M.E. Noz, Absorbed Fractions for a Uniformly Distributed Source in the Myocardium, Symposium on Dosimetry of Radiopharmaceuticals, U. S. Energy Research and Development Adm., Oak Ridge National Laboratory, Oak Ridge, TN, 1976.

### *Patents*

- Jonathan Yen, Gerald Q. Maguire Jr., Chit Wei Saw, and Xu Yihong, Method of encoding a handwritten signature, EU patent EP1340188B1 (Designated countries (DE, FR, GB), Assignee Hewlett-Packard Company, Filing Date: November 28, 2001, Issue Date: March 07, 2007.
- Jonathan Yen, Gerald Q. Maguire Jr., Chit Wei Saw, and Xu Yihong, US 7,107,453 and EP 1,340,188 : Authenticatable Graphical Bar Codes, US filing (20010047476) December 1, 2000; EU application WO/2002/045000 (international application number PCT/US2001/045072 - filed 28 November 2001), publication date: 6 June 2002, applicant & assignee: Hewlett-Packard Company, US Patent issued September 12, 2006, EU patent (Designated countries (DE, FR, GB) issued March 7, 2007.
- Mark T. Smith and Gerald Q. Maguire, Jr., US6,975,618: Receiver and Correlator used to Determine Position of Wireless Device, Issued December 13, 2005; Filed June 26, 2001.
- Mark T. Smith and Gerald Q. Maguire, Jr., US6,141,763: Self-powered network access point, Issued October 31, 2000; Filed: September 1, 1998.

### *Patent Applications*

- Mark T. Smith and Gerald Q. Maguire, Jr., Location requests by a network device, US patent filing 20040080412, April 29, 2004

### *Workshops*

- VINNOVA/NSF Workshop on "Mobile Wireless Systems and their Impact on the Future Internet", Aske kursgård, Sweden, May 24, 2007
- Seamless Mobility, Stockholm, September 15-16, 2001
- XIWT Workshop on End-to-End Wireless Integration, Menlo Park, CA, 6-7 August 1998, invited participant.
- Stanford University Learning Lab design charette, 9-10 July 1998, invited participant.
- Workspaces in the Information Age, Leesburg, VA, NSF and IEEE sponsored workshop, 6-8 November 1996, invited participant.
- Workshop on Wireless Data Networking/Personal Communication Systems, Center for Telecommunications Research (CTR), Columbia University, 14 October 1992.

CV of G.Q. Maguire Jr.

Computer Networks in Radiology Research Workshop, American College of Radiology, Lister Hill National Center for Biomedical Communications, 14-15 March, 1991.  
DARPA Workshop on Technologies for Personal Communication, Washington, D.C., 18 January 1990.  
Personal Computer Workshop, Digital Equipment Corporation, San Francisco, CA, 20-22 June 1983  
Apollo Users Workshop, 22-23 June 1981, Brown University, Providence, RI.  
Second International Program Transformation Workshop, Harvard University, Cambridge, MA, 5-7 September 1979.

### *Chairman of Doctoral Thesis Committee*

dissertation not completed. [Officially withdrew from degree program]dissertation not completed  
H. Glitho (Dr. Tech., 2002), A Mobile Agent Based Service Architecture for Internet Telephony, (Research Staff member, Ericsson Canada Inc. and Adjunct Associate Professor, Concordia University), KTH Royal Institute of Technology.  
Theo Kanter (Dr. Tech., 2001), Adaptive Personal Mobile Communication -- Service Architecture and Protocols, (formerly: Research Staff member, Ericsson Radio Systems; currently: Professor, Mid-Sweden University), KTH Royal Institute of Technology.  
Joseph Mitola III (Dr. Tech., 2000), Cognitive Radio: An Integrated Agent Architecture for Software Defined Radio, (formerly: Mitre Corporation, later: Professor and Vice President of the Research Enterprise, Stevens Institute of Technology), KTH Royal Institute of Technology.  
Yuejin (George) Liu, (Dr. Tech., 1996) The Effectiveness of a Full-Mobility Architecture for Wireless Mobile Computing and Personal Communications (Research Staff member, Core Unit Radio, Ericsson Radio Systems, formerly: Professor, Linköping University; currently: Professor, East China Jiaotong University (ECJTU)), KTH Royal Institute of Technology.  
John Ioannidis (Ph.D.,1993) Protocols for Mobile Internetworking (initially Lehman Brothers, NY, NY, subsequently AT&T Research Labs, later: Chief Architect at Packet GENERAL Networks, Inc.), Columbia University.  
Yoram Eisenstadter (dissertation not completed) Compile-time Locality Optimization of Parallel Computation, Columbia University.  
Steven M. Kearns, (Ph.D., 1990) Extending Regular Expressions (founded Software Truth, La Jolla, California, now at KAB Laboratories, Inc., San Diego, CA), Columbia University.  
Michael K. van Biema, (Ph.D.,1989) CBL: A Constraint Based Language Integrating the Rule-Based and Object-Oriented Paradigms, (Founder: van Biema Value Partners, LLC; formerly: Associate Professor, Columbia University, School of Business; initially: Instructor, Columbia University, joint appointment between School of Business and Computer Science Department), Columbia University. First job: Ronin Development, Princeton, NJ; with Stolfo: Parallel PSL, DADO simulator parallel programming languages.  
Jonathan M. Smith, (Ph.D.,1989) Concurrent Execution of Mutually Exclusive Alternatives (Professor, University of Pennsylvania), Columbia University.

### *Doctoral Thesis Opponent*

Tiia Ojanperä (Ph.D., 2013), Cross-layer Optimized Video Streaming in Heterogeneous Wireless Networks, University of Oulu, Faculty of Technology, Department of Computer Science and Engineering, 19 June 2013  
Janne Lundberg, (Dr. Tech., 2006), A Wireless Multicast Delivery Architecture for Mobile Terminals, Helsinki University of Technology, Laboratory for Theoretical Computer Science, 15 May 2006

CV of G.Q. Maguire Jr.

- Henry Haverinen, (Dr. Tech., 2004) , Internetworking between Wireless LAN and GSM/UMTS Cellular Networks: Network Access Control, Mobility, and Security Considerations, Tampere University of Technology, Department of Information Technology, 3 December 2004.
- Jouni Mikkonen, (Dr. Tech., 1999) , Quality of Services in Radio Access Networks, Tampere University of Technology, Department of Information Technology, 19 May 1999
- Sudeep Kumar Palat, (Dr. Ing., 1998), Replication of User Mobility Profiles for Location Management in Mobile Networks, Norwegian University of Science and Technology, Dept. of Telematics, 12 Jan. 1998.
- Hannu H. Kari, (Dr. Tech., 1997) , Latent Sector Faults and Reliability of Disk Arrays, Helsinki University of Technology, Department of Computer Science and Engineering, 19 May 1997.
- Jari Hämäläinen, (Dr. Tech., 1996) , Design of GSM High Speed Data Services, Tampere University of Technology, Department of Information Technology, 4 October 1996.

### *Member of Doctoral Thesis Committee*

- Georgios P. Katsikas (Dr. Tech., expected 2018), Realizing High Performance NFV Service Chains. [His primary advisor is prof. Dejan Kostić.]
- Kirill Bogdanov (Dr. Tech., expected 2018), Reducing Long Tail Latencies in Geo-Distributed Systems. [His primary advisor is prof. Dejan Kostić.]
- Athanasios Karapantelakis (Dr. Tech., expected 2018), [His primary advisor is assoc. prof. Jan I. Markendahl.]
- Mohammad Zarifi Eslami (Ph.D. 2013), Service Tailing: A Method and Tool for User-centric Creation of Integrated IT-based Homecare Services to Support Independent Living of Elderly, main advisor: R. J. Wieringa, University of Twente, Electrical Engineering, Mathematics and Computer Science (EEMCS), Information Systems (IS) research group, Enschede, The Netherlands
- Mehmood Ur Rehman Awan (Ph.D. 2013), Resource Optimal Architecture Design for Software Defined Radio Front-Ends, Advisers: Peter Koch, Department of Electronic Systems, Aalborg University and fredric j. harris, Dept. of Electrical and Computer Engineering, San Diego State University, CA, USA
- Jiang Wu, (Lic. Tech. 2000, Dr. Technology, dissertation not completed) [topic] Seamless IP, Main advisor: Björn Pehrson, Secondary advisor: G. Q. Maguire Jr., KTH/ICT/ECS/Telecommunication Systems Laboratory.
- Steffen Albrecht, (Dr. Technology, 2005) Sigma-Delta Based Techniques For Future Multi-Standard Wireless Radios, Main advisor: Prof. Mohammed Ismail, KTH/ICT/ECS
- Jon-Olov Vatn (Lic. Tech. 2000, Dr. Technology 2005) IP telephony: mobility and security, Main advisor: Björn Pehrson, Secondary advisor: G. Q. Maguire Jr., KTH/ICT/ECS/Telecommunication Systems Laboratory.
- Stefan Pettersson, (Dr. Technology, 2004) Radio Resources Management for Wireless Indoor Communication Systems: Performance and Implementation Aspects, Advisor Jens Zander, KTH/Signals, Systems, and Sensors/Radio Systems Laboratory.
- Nandika Kasun De Zoysa, (Ph.D., 2003) A Model of Security Architecture for Multi-Party Transactions, Advisor Sead Muftic, DSV/Stockholms University.
- Anders Furuskär, (Dr. Technology, 2003) Radio Resource Sharing and Bearer Service Allocation for Multi-Bearer Service, Multi-Access Wireless Networks: Methods to Improve Capacity, Advisor Jens Zander, KTH/Signals, Systems, and Sensors/Radio Communication Systems Laboratory.
- Alberto Escudero-Pascual (Lic. Tech. 2001, Dr. Technology 2002) Privacy in the next generation Internet: Data protection in the context of European Union policy, Main advisor: Björn Pehrson,

CV of G.Q. Maguire Jr.

Secondary advisor: G. Q. Maguire Jr., KTH/Institutionen för Mikroelektronik och Informationsteknik/Telecommunication Systems Laboratory.

Matthias Unbehaun, (Lic. Tech., Dr. Technology 2002) On the Design and Deployment of Low-cost Wireless Infrastructure, Co-Advisor with Jens Zander, KTH/Department of Signals, Sensors and Systems.

Clifford Beshers, (Ph.D., (expected 200x?)) Automated Design of Interactive Virtual Worlds for Visualizing Multivariate Relations, Advisor - Steve Feiner - Columbia University, Computer Science.

Erez Zadok, (Ph.D., 2000) A Stackable File System Language, Advisors - Jason Nieh and Dan Duchamp - Columbia University, Computer Science

Carl-Gustav Löf, (Dr. Technology, 1999) Multicasting in Cellular Radio Systems, Advisor Jens Zander, KTH/Signals, Systems, and Sensors/Radio Systems Laboratory.

Erik Anderlind, (Dr. Technology, 1997) Resource Allocation in Multi-Service Wireless Access Networks, Advisor Jens Zander, KTH/Signals, Systems, and Sensors/Radio Systems Laboratory.

John S. Lakos, (Ph.D., (expected) 1997) An object-oriented multiprocessor fault simulator, Advisor - Steve Unger - Columbia University, Computer Science {thesis proposal committee only}.

Nada Kapidzic Cicovic, (Dr. Technology, 1997) Extended Certificate Management System: Design and Protocols, Advisor Sead Muftic, KTH DSV.

Per Zetterberg, (Dr. Technology, 1997) Mobile Cellular Communications with Base Station Antenna Arrays: Spectrum Efficiency, Algorithms and Propagation Models, Advisor Björn Ottersten, KTH/Signals, Systems, and Sensors/Signal Processing Laboratory

Magnus Engström, (Ph. D., 1997) A compact first level calorimeter trigger proposal for the ATLAS detector: System perspective and ASIC design, Advisor Christian Bohm, Department of Physics, Stockholms Universitet.

Christiaan Roobol, (Dr. Technology, 1997) Packet Radio Systems with Multiple Access Ports, Advisor Jens Zander, KTH/Signals, Systems, and Sensors/Radio Systems Laboratory.

Dag Stranneby, (Dr. Technology, 1996) Power and frequency assignment in HF Radio Networks, Advisor Jens Zander, KTH/Signals, Systems, and Sensors/Radio Systems Laboratory.

Per-Erik Östling, (Dr. Technology, 1995) Soft Handoff in Urban Environments, Advisor Jens Zander, KTH/Teleinformatics/Radio Systems Laboratory {thesis proposal committee only}.

Tawfik Lazraq, (Dr. Technology, 1995) Design Techniques and Structures for ATM Switches, Electronics Systems Design, Department of Electronics, KTH Royal Institute of Technology.

Lisa Gottesfeld Brown, (Ph.D., 1995) Registration of Multimodal Medical Images Using Sensor Relationships, Advisor Terrance Boulton - Columbia University, Computer Science.

Olof Hagsand, (Dr. Technology, 1995) Computer and Communication Support for Interactive Distributed Applications, Advisors - Björn Pehrson, KTH/Teleinformatics/Telecommunications Systems Laboratory and Peter Sjödin, Swedish Institute of Computer Science.

Stephen Pink, (Dr. Technology, 1993) Measurement, Implementation, and Optimization of Internet Protocols, Advisor - Björn Pehrson - KTH Royal Institute of Technology, Department of Teleinformatics and Swedish Institute of Computer Science.

David J. Kurlander, (Ph.D., 1993) Graphical Editing by Example. Advisor - Steve Feiner - Columbia University, Computer Science.

Chien Fang, (Ph.D. 1993) On High Performance Switching Architectures. Advisor - Ted H. Szymanski - Columbia University, Electrical Engineering.

Paul Landsberg, (Ph.D., 1993) VLSI For Packet Switching Nodes in Communication Networks. Advisor - Charles Zukowski - Columbia University, Electrical Engineering.

Nathaniel Polish, (Ph.D., 1992) Mixed Distance Measures for Optimizing Concatenative Vocabularies for Speech Synthesis. Advisor - Sal Stolfo - Columbia University, Computer Science.

CV of G.Q. Maguire Jr.

- Frank Smadja, (Ph.D., 1991) Retrieving Collocational Knowledge from Textual Corpora. An Application: Language Generation. Advisor - Kathy McKeown - Columbia University, Computer Science.
- Brian Eck, (Ph.D., 1990) Approaches to coping with NP completeness in sequencing problems. Advisor - Michael Pinedo - Columbia University, Industrial Engineering and Operation Research.
- Anastasios Bouloutas, (Ph.D., 1989) Models for Fault Management in Communication Networks. Advisor - Misha Schwartz and Hart - Columbia University, Electrical Engineering.
- Liang-Neng Wong, (Ph.D., 1989) Flow and Access Control in Metropolitan Area Networks. Advisor - Misha Schwartz - Columbia University, Electrical Engineering.
- Shuo Huang, (Ph.D., 1989) Automated Gate Matrix Layout of CMOS Circuit. Advisor - Omar Wing - Columbia University, Electrical Engineering.
- Gunnar David Karlsson, (Ph.D., 1989) Subband Coding for Packet Video. Advisor - Martin Vetterli - Columbia University, Electrical Engineering
- Alexander Pasik, (Ph.D., 1989) A Methodology for Programming Production Systems and Its Implications on Parallelism. Advisor - Sal Stolfo - Columbia University, Computer Science.
- Philippe A. Perrier, (Ph.D., 1989) Optical Processing for self-clocking and self-routing in photonic switching networks. Advisor - Paul Prucnal - Columbia University, Electrical Engineering.
- Alexis Felix, (Ph.D., 1988) Analysis of Radiocardiographic First Pass Activity Versus Time Data Using Models of the Central Circulatory and Nonlinear Regression Analysis. Advisor - Jordan L. Spencer, Columbia University, Chemical Engineering
- Nihal Nounou, (Ph.D., 1986) A methodology for specification based performance analysis of protocols. Advisor - Yechiam Yemini - Columbia University, Computer Science.

#### *Reserve Member of Doctoral Thesis Committee*

- Marvin Sánchez Garache, (Tech. Dr., 2008), Mutihop Wireless Networks with Advanced Antenna Systems: An Alternative for Rural Communication, Advisor Jens Zander, KTH/ICT Communication Systems

#### *Chairman of Licentiate Committee or Licentiate Supervisor*

- Georgios P. Katsikas (Lic. 2016), Realizing High Performance NFV Service Chains. [His primary advisor was prof. Dejan Kostić.]
- Kirill Bogdanov (Lic. 2016), Reducing Long Tail Latencies in Geo-Distributed Systems. [His primary advisor was prof. Dejan Kostić.]
- Athanasios Karapantelakis (Lic. 2011), Getting Personal: A Framework for Context-Aware Services and System Design for Contemporary Mobile Environments
- Alisa Devlic, (Lic. 2009), Context-addressed communication dispatch
- Henrik Gustafsson (proposal accepted, but thesis not completed), [topic area] Personal Devices and Connectivity, KTH Royal Institute of Technology. [Officially withdrew from degree program]
- Waseem Besada, (proposal accepted, but thesis not completed), [topic area] TCP Protocol Behavior over Wireless Links, KTH Royal Institute of Technology.
- Christian Wettergren (proposal accepted, but thesis not completed), Information flow analysis in communicating processes, KTH Royal Institute of Technology. [Officially withdrew from degree program]
- Yuri Ismailov (proposal accepted, but thesis not completed), [topic area] Mobile multimedia communication, KTH Royal Institute of Technology.

CV of G.Q. Maguire Jr.

- Elisabetta Carrara (Lic. 2005), Security for IP Multimedia Applications over Heterogeneous Networks, KTH Royal Institute of Technology
- Andreas Wennlund (proposal accepted, but thesis not completed), Context-Aware Support for Adaptive Communication in Heterogeneous Wireless Service Networks, KTH Royal Institute of Technology. [His primary advisor was Dr. Theo G. Kanter.] [Officially withdrew from degree program]
- Anna Ren (Lic., 2002), A Smart Network and Terminal Framework for Supporting Context-aware Mobile Internet and Personal Communications, KTH Royal Institute of Technology.
- Bjarne Däcker (Lic., 2000), Concurrent Functional Programming for Telecommunications: A Case Study of Technology Introduction, KTH Royal Institute of Technology.
- Theo Kanter (Lic., 2000), Adaptive Personal Mobile Communication, KTH Royal Institute of Technology.
- Joseph Mitola III (Lic., 1999), Cognitive Radio: Model Based Competence for Software Radios, KTH Royal Institute of Technology.
- Ingvar Fröroth, (Lic., 1999), More than power down the line, KTH Royal Institute of Technology.
- Jun-tong Liu, (Lic. 1998), A Network Architecture for highly integrated Access Points for use by Multimedia Mobile Terminals, KTH Royal Institute of Technology.
- Anders Klemets (thesis not completed) , Mobile-IP (tentative topic), KTH Royal Institute of Technology.
- Roch H. Glitho (Lic., 1996), Managing SS7 Networks Using The OSI Systems Management Paradigm, KTH Royal Institute of Technology.
- Yuejin (George) Liu (Lic., 1995), Efficient Mobility Management for Wireless Mobile Computing and Communications, KTH Royal Institute of Technology.

### *Licentiate Thesis Opponent*

- Johan Kristiansson, (Lic., 2004), “Creating Always-Best-Connected Multimedia Applications for the 4:th Generation Wireless Systems”, Luleå tekniska universitet.
- Nail Kavak, (Lic., 1994) Experience and Analyses of Internetworking, KTH/Teleinformatik.

### *Member of Licentiate Committee or Secondary Advisor*

- Georgios Katsikas (Lic. 2016), Realizing High Performance NFV Service Chains , Main adviser: Dejan Kostić
- Kirill Bogdanov (Lic. 2016), Reducing Long Tail Latencies in Geo-Distributed Systems , Main adviser: Dejan Kostić
- Iyad Al Khatib (Lic., 2003), Performance Analysis of Wireless LAN Access Points, KTH Royal Institute of Technology, main advisor: Prof. Rassul Ayani (formerly Prof. Björn Pehrson)
- Alberto Escudero-Pascual (Lic., 2001) Anonymous and Untraceable Communications: Location Privacy in Mobile Internetworking, KTH Royal Institute of Technology, Main advisor: Prof. Björn Pehrson
- Jiang Wu, (Lic., 2000), An Mobility Support Agent Architecture for Seamless IP Handover, KTH Royal Institute of Technology, main advisor: Prof. Björn Pehrson.
- Jon-Olov Vatn, (Lic., 2000), Improving Mobile IP handover performance, KTH Royal Institute of Technology, main advisor: Prof. Björn Pehrson.



*Chairman of Master's Thesis Committee or Thesis Supervisor\**

**2017**

None

**2016**

None

**2015**

Anargyros Chatzaras and Georgios Savvidis, Seamless speaker recognition

Magnus Larsson, Sanitization of embedded network devices

Ana Santamaria Portolés, Radio Based User Presence

Liu Enfei, USB dongles for mobile broadband - data communications for laptop computers

**2014**

Arjun Reddy Kanthla, Network Performance Improvement in Cloud Computing

**2013**

Lisan Chen and Tingting Schiller Shi, Targeted News in an Intranet

Ruslan Mukhammadov, A Scalable Remote Patient Monitoring System

Julia Alba Tormo Peiró, Spectrum sensing based on specialized microcontroller white space sensors

Niyaz Adigozalov, The Intelligent Use of Multiple Interfaces

Saulius Alisauskas, Community based testing

Javier Lara Peinado, Minding the spectrum gaps: First steps toward developing a distributed white space sensor grid for cognitive radios

Zhang Yuanhui, Evaluating a publish/subscribe proxy for HTTP

Jesus Paredes Sanz, Exploiting social networking technologies in order to enhance internal communication within and across large enterprise: Improving a corporate social network

**2012**

Arun Arumugam Mathivanan, MiniSIP as a Plug-in

Mussie Tesfaye, Secure Reprogramming of a Network Connected Device: Securing programmable logic controllers

Alexis Martínez Fernández, Authorization schema for electronic health-care records: For Uganda

Goce Talaganov, Green VoIP: A SIP Based Approach

Albert López and Francisco Javier Sánchez, Exploiting Wireless Sensors: A gateway for 868 MHz sensors

**2011**

Diego Fernando Botero Aristizábal, The Leaf Project: An E-Reading Platform Business Plan

Federico Enni, The Leaf project: a first application

Luis Maqueda, Neighbor Discovery Proxy-Gateway for 6LoWPAN-based Wireless Sensor Networks

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\*The students are organized by the year in which they gave their final oral presentation. Some students may have completed the requirements for their thesis project in a subsequent year.

CV of G.Q. Maguire Jr.

George Khalil, The Leaf Project E-Reading Platform: Commercialization Plan

Ye Tian, A Web Server for Sensors

Sebatían Galiano, The Leaf Project: Infrastructure

Prajwol Kumar Nakarmi, Evaluation of VoIP Security for Mobile Devices in the context of IMS (stated in my lab and finished at Ericsson Research)

## **2010**

Jia Guo, A New Authenticator: An Alternative to Binary Authentication Using Traffic Shaping

Victor Delgado, Exploring the limits of cloud computing

Carlos Domínguez Sánchez, Speaker Recognition in a handheld computer

Abdullah Azfar, Multiple Escrow Agents in VoIP

Alejandro Arcos Machancoses, A context-aware application offering map orientation

Muhammad Sarwar Jahan Morshed, Voice over IP and Lawful Intercept: God cop/Bad cop

Md. Sakhawat Hossen, A Session Initiation Protocol User Agent with Key Escrow: Providing authenticity for recordings of secure sessions

Alaleddin Mohammed, Studying Media Access and Control Protocols

Anqi Luo and Lei Ge, Indoor Location Detection using WLAN

## **2009**

Yongliang Wu, Aggregating product reviews for the Chinese market

Abdur Rauf Khan, Digital Signage System

Jenny Charvandeh, Location aware web access

Martin Olofsson and Sebastian Öhman, Networked Haptics

Bemnet Tesfaye Merha, Secure Context-Aware Mobile SIP User Agent

Shuang Di, USB Attached Network Performance: Uplink Performance

Hengchong Zhang, Non-binary Authentication: Supplicant

## **2008**

Ke Wang, Exploiting Presence

Xueliang Ren, A Meeting Detector to Provide Context to a SIP Proxy

Shasha Zhang, Device aggregation with data networking: Implementing a Personal Area Network

Romanidis Evripidis, Lawful Interception and countermeasures: in the era of internet telephony

Jia Zhou, Adding bandwidth specification to a AAA Sever

Shanlun Jin, Implementation and Analyses of the Mobile-IP Protocol: Under Windows

[note: this thesis was to have been completed before 1997]

Lidan Hu, An Intelligent Presentation System

## **2007**

Yu Sun, Context-Aware reminder for Pocket PC

Mohammad Zarifi Eslami, A Presence Server for Context-aware Applications

Daniel Hübinette, Occupancy Sensor System: For Context-aware Computing

Behdis Zandieh, Indoor WLAN: Measurement and Modeling from a user perspective

Athanasios Karapantelakis, A mobile SIP client: From the user interface design to evaluation of synchronised playout from multiple SIP user agents

Nguyen Manh Ha, Gateways between ad hoc and other networks

CV of G.Q. Maguire Jr.

Oscar Santillana, RTP redirection using a handheld device with Minisip

Sergi Laencina Verdaguer, Model driven context awareness

Qiang Fu, Building models of WLAN coverage

## **2006**

Franz Mayer, Adding NTP and RTCP to a SIP User Agent

Xiaokun Yi, Adaptive Wireless Multimedia Services

Liang Huang, On-line storage versus local storage for mobile users

Oukhay Younes, Context Aware Communications

Ali Nesh-Nash, Voice over IP in a resource constrained environment

Panteleimon Panidis, Middleware for Context-Aware Opportunistic Networks

## **2005**

Raúl García Higes, Corporate Wireless IP Telephony, KTH/IMIT

Alessandro Sacchi, A motivation for text on RTP, KTH/IMIT

Johan Sverin, Voice Interface for a Mobile Audio Application, KTH/IMIT

Mia Immonen, SIGTRAN, KTH/IMIT

Carlos Marco Arranz, IP Telephony: Peer-to-peer versus SIP, KTH/IMIT

Inmaculada Rangel Vacas, Context Aware and Adaptive Mobile Audio, KTH/IMIT

Ignacio Sánchez Pardo, Spatial Audio for the Mobile User, KTH/IMIT

## **2004**

Giulio Mola, Vertical handoff optimization through policy based management of IEEE 802.11b and GPRS interfaces, KTH/IMIT

## **2003**

Johan Bilien, Key Agreement for Secure Voice over IP, KTH/IMIT

María José Parajón Domínguez, Audio for Nomadic Users, KTH/IMIT

Israel Abad Caballero, Secure Mobile VoIP, KTH/IMIT

## **2000 and earlier**

Christoph Wolf, (Dipl.-Ing., 2000), Wearable Computing & Communication, Technische Universität Graz, Austria.

Andreas Schmidt, (Dipl.-Ing., 1998), An Accesspoint for Mobile Terminals: Support for Simulation and Evaluation, Technische Universität Graz, Austria.

Fredrik Broman and Fredrik Tarberg, (Civ. Ing., 1996), Implementation and Analyses of the Mobile-IP Protocol, KTH/Teleinformatics.

Pascal Guerin, (M.S., 1994) RadioNet Driver Implementation for the Mobile INternet Router, KTH/Teleinformatics+EURECOM Institute.

Markus Oelhafen, (M.S., 1994) SNMP Application for the MINT Router, KTH/Teleinformatics+EURECOM Institute.

Tim Lee, (M.S., 1992) An Expert System for PACS configuration, Columbia University, Dept. of Chemistry

*Examiner for “Civilingenjör” (Masters) Thesis*

*KTH (ICT, IMIT, or Teleinformatics)*

Note there are additional students whom I have been the examiner for listed under the previous heading (*Chairman of Masters Thesis Committee or Thesis Supervisor*).

**2017**

Filip Östermark, Performance Optimization of Virtualized Packet Processing Function for 5G RAN

Uri Arta Ramadhani, Evaluation of the Profitability of Quality of Experience-based Resource

Khalid Elbashir, Trusted Execution Environments for Open vSwitch

Ammar Talic, Security Analysis of Ethernet in Cars

Xufei Ning, Push-based low-latency solution for Tracked Resource Set protocol

Fabian Huss and Adam Hemlin Billström, True Video Integrity - a Live Video Integrity Solution through Blockchain Technology

Daniel Sjöström, Unlicensed and licensed low-power wide area networks: Exploring the candidates for massive IoT

GaneshKumar Mani, Heterogeneous Residential Gateway Design Using OSGi

Ioannis Kaltsas, Make yourself at home: A comparative study of VoLTE Roaming architectures

**2016**

Anitha Raja, A Coordination Framework for Deploying Hadoop MapReduce Jobs on Hadoop Cluster

Daniel Carlsson, Dynamics AX in the Cloud: Possibilities and Shortcomings

Fredrik Lindblom, Spatial Replay Protection for Proximity Services

Joakim af Sandeberg, Graphical system visualization and flow display

Naida Kukuruzovic, Security Management: Fulfillment of the Government Requirements for a component assurance process

Tomas Wickman, Evaluation of communication protocols between vehicle and server

Baran Topal, Comparison of Methods of Single Sign-On: Post authentication methods in single sign on

**2015**

Jiabing Guo, Design and implementation of LTE-A and 5G kernel algorithms on SIMD vector processor

Fredrik Hans Nordlund, Enabling Network-Aware Cloud Networked Robots with Robot Operating System: A machine learning-based approach

Xue Lin Xiong, SCTP and Diameter Parameters for High Availability in LTE Roaming

Nikolaos Gkikas, Data Transfer and Management through the IKAROS framework

Mikael Rudholm, Design of IP Multimedia Subsystem for Educational Purposes

Yang Bin, Using Six Sigma Methodology to improve the performance of the shipment Test

Laurier Ndikuriyo, Addressing non-conformities in a ERTMS implementation: Collecting non-conformities in ERTMS simulation and analyzing their management via a database

Victor Johansson, Enhance user satisfaction in 5G network using Network Coding

Per-Johan Simon Jakobsson, Cloud-Based Alerting System for IP-Telephony: A prototype development

Kristian Sällberg, A Data Model Driven Approach to Managing Network Functions Virtualization

Patrik Hagernäs, 5G user satisfaction enabled by FASP: Evaluating the performance of Aspera's FASP

Tengqingqing Ge, Indoor Positioning System based on Bluetooth Low Energy for Blind or Visually Impaired Users: Running on a smartphone

## 2014

- Nima Saboonchi, Hardware Security Module Performance Optimization by Using a "Key Pool":  
Generating keys when the load is low and saving in the external storage to use when the load is high
- Rikard Höglund, Lightweight Message Authentication for the Internet of Things
- Yi Fu and Ruimin Li, From Set Top Box to Home Media Center
- Anitha Kathirvel and Siddharth Madan, Efficient Privacy Preserving Key Management for Public Cloud Networks
- Katharina Pfeffer, Formal Verification of a LTE Security Protocol for Dual-Connectivity: An Evaluation of Automatic Model Checking Tools
- Dipesh Dugar Mitthalal, Social Proximity Indicator Enhancing Application Personalization for the User
- Pourya Moradinia and Imal Sakhi, Mobile Opportunistic Services for Experience Sharing
- Jahaivis Arias, Privacy in the context of Smart Home Environments: Based upon a survey of experts
- Willy Wang, Evaluating the use of PXI-modules in tests of a radio base station
- Alexandros Zografos, Wireless Sensor-based Agricultural Monitoring System
- Fernando Valdenebro González, Energy-efficient enhancements for IEEE 802.11 WLAN towards Cellular/Wi-Fi networks interworking
- Manuel Maqueda and Javier Montojo, Congestion Identification in a Radio Access Transport Network
- Youbei Jin, Integration and assessment of streaming video content and API development into a spaced repetition service
- Md. Iqbal Hossain and Md. Iqbal Hossain, Dynamic scaling of a web-based application in a Cloud Architecture
- Natalia Paratsikidou, Security Integration in IP video surveillance systems
- Sabrina Ali Tandra and Sarwarul Islam Rizvi, Security for Cloud Based Services
- Shariq Mobeen, A Topologically Aware Resource Management System
- Gunay Mert Karadogan, Evaluating WebSocket and WebRTC in the Context of a Mobile Internet of Things Gateway

## 2013

- Mozhdeh Kamel, Extending precision time protocol to a metropolitan area network
- Julio Vargas, A Distributed Approach for Global Product Lifecycle Management
- Elmira Khodabandehloo, JavaFX scene graph object serialization
- Alexandre Kohen, Unified Communications with Lync 2013
- Dragan Cabarkapa, Authorization Architecture for Social Web of Things
- Mozhgan Saffarzadeh, Network Characterization using Active Measurements for Small Cell Networks
- Sabrina Dubroca, Cross-Layer optimization in a satellite communication network
- Waqas Liaqat Ali, Securing Safebook
- Muhammad Umair, Performance Evaluation and Elastic Scaling of an IP Multimedia Subsystem Implemented in a Cloud
- Pham Thi Van Anh, Security of NFC applications
- Syed Amir Shahzad, Aggregation in Software-defined Networks
- Peter Skogsberg, Quantitative Indicators of a Successful Mobile Application
- Denys Knertser and Victor Tsarinenko, Network Device Discovery
- Konstantinos Vaggelakos, Optimizing Enterprise Resource Planning systems for mobile applications
- Fabio Viggiani, Design and implementation of a non-aggressive automated penetration testing tool
- Amir Roozbeh, Resource monitoring in a Network Enabled Cloud - An extension to OSPF-TE

CV of G.Q. Maguire Jr.

Guojun Wang, Optimizing System Test

Alessandro Monge, Synchronized MAC layer for ultra-wideband wireless sensor network

Cecilia Rodríguez Martínez, Software quality using analytical metric analysis

Pierre Labiausse, A state of the art media box

José María Rodríguez Castillo, Energy-Efficient Vertical Handovers

Erik Eldh, Cloud connectivity for embedded systems

Ziyi Xiong, Socio-economic Impact of Fiber to the Home in Sweden

Lan Sun, Epidemic Content Distribution in Mobile Networks : A study of epidemic content distribution characteristic with social relationship evaluation

Binghan Liu, Software Defined Networking and Tunneling for Mobile Networks

Isak Färnlycke, An approach to automating mobile application testing on Symbian Smartphones : Functional testing through log file analysis of test cases developed from use cases

Elham Khorami, Providing accurate time information to a radio base station via a GPS receiver emulator

## 2012

Jie Sun, Locality of Internet Traffic: An analysis based upon traffic in an IP access network  
Manxing Du, Analyzing Caching Gain in Small Geographical Areas in IP Access Networks

Venkatesh Chengegowda, Analysis of Queues for Interactive Voice and Video Response Systems: Two Party Video Calls

Saad Ahmed Siddiqi, Smart Card Packaging Process Control System

Anand Kannan, Performance evaluation of security mechanisms in Cloud Networks

Tommaso Galassi De Orchi, A Security Study for Non-Internet Connected Managed Software

Syed Ghazanfar Salari, Control Channel Limitations for VoIP over LTE

Pavel Legonkov and Vasily Prokopov, Small Cell Wireless Backhaul in Mobile Heterogeneous Networks

Muhammad Fahd Azeemi, HydraNetSim: a Parallel Discrete Event Simulator

Ekaterina Garbaruk, Requirement analysis of international wholesale telecommunications for Carrier Ethernet services

Vytautas Zapolskas, Securing Cloud Storage Service

Andrew Keating, Models for the Simulation of a Name-Based Interdomain Routing Architecture

Chaitanya Dandugula, Networking for Smart Meters

Vilius Visockas, Comparing Expected and Real-Time Spotify Service Topology

Ahmed Kamal Mirza, Managing High Data Availability in Distributed Derived Data Management System under Churn

Ignacio Mulas Viela and Armando Gutiérrez López, Automated Telecommunications Software Testing

Manuel Parras and Isaac Albarrán, Telecommunication Services' Migration to the Cloud: Network Performance analysis

Linh Vu Hong, DNS Traffic Analysis for Network-based Malware Detection

Rafael Aldana Pulido, Ophthalmic Diagnostics Using Eye Tracking Technology

## 2011

Eric Svensson, A First Step Toward Green Wireline Broadband: A tool for systematic measurement of Digital Subscriber Line parameters as input to dynamic power optimization algorithms

Tommy Marshall, Moving the museum outside its walls: An Augmented Reality Mobile Experience

Luciano Rubio, A Dynamic Adaptive HTTP Streaming Video Service for Google Android

K. M. Imtiaz-ud-Din, Collaboration-based intelligent service composition at runtime by end users

CV of G.Q. Maguire Jr.

Niranjanan Kalaichelvan, Distributed Traffic Load Scheduler based on TITANSim for System Test of a Home Subscriber Server (HSS)

Nina Mulkiyanan, SMS Tester for International SMS Service

Francisco Aleo Monteagudo, Generating real-time feedback based upon movement of a gaming controller

Christina Sidiropoulou, VoIP Operators: From a Carrier Point of View

Muhammad Ibrahim, Ethernet in Steer-by-wire Applications

Daniel Crespo Ramírez, Smartphone traffic patterns

Ali Sarrafi, Peer to Peer Grid for Software Development: Improving community based software development using community based grids

Isabel Frostne, Traffic analysis of existing traffic in Kulyab region in order to plan and configure a new GSM MSC for this region

Narayanan Anandpadmanabhan, Value Added Services in India

Maqsood Ahmad, Anonymous Authentication Using Secure Multi-Party Computations

Rasib Hassan Khan, Decentralized Authentication in OpenStack Nova: Integration of OpenID

Daoyuan Li, A Proxy for Distributed Hash Table based Machine-to-Machine Networks

Lakshmi Subramanian, Security as a Service in Cloud for Smartphones

Zixuan Song, A Network based Home surveillance/monitoring system--Router based Deployment and Network Security

Shitian Long, Database synchronization between devices: A new synchronization protocol for SQLite databases

Zhuo Cheng, Hybrid Power Control in Time Division Scheduling Wideband Code Division Multiplex Access

Carlo Rinaldi, Performance evaluation and optimization of an OMAP platform for embedded SDR systems

## **2010**

Ma Weizen, Instrumentation of Gait Analysis

Yichi Zhang, Residential Network Traffic and User Behavior Analysis

Dario Vodopivec, On-demand Television combined with non-real-time Peer-to-Peer Content Delivery for Television Content Providers

Md. Safiqul Islam, HTTP Streaming Video Server with Dynamic Advertisement Splicing

Alexander Riedel, Collaborative scheduling using context awareness

Vassilios Ververis, Security evaluation of Intel's Active Management Technology

Emmanouil Karamanos, Investigation of home router security

Petter Lindgren, Diameter service creation investigation and HSS evaluation

Edoardo Paone, Open-Source SCA Implementation-Embedded and Software Communication Architecture: OSSIE and SCA Waveform Development

## **2009**

Christopher Olsson, Programming Disconnected Operations in Wireless Sensor Networks

Anders Orrevad, M2M Traffic Characteristics: When machines participate in communication

Tao Sun, Developing a Mobile Extension Application: OptiCaller Application and Provisioning System.

Xiao Wu, SIP on an Overlay Network.

Zhang Li, Service Improvements for a VoIP Provider,

Dan Peterström, IP Multimedia for Municipalities: The supporting architecture

CV of G.Q. Maguire Jr.

Fredrik Eidlert, Messaging and positioning in a dynamic TETRA environment

Xuan Feng, Evaluation of Capuchin Application Programming Interface: Implementing a Mobile TV Client

Sumanta Saha, OBSAI Interoperability in Multi-Vendor WiMAX Base Station Architecture Environment

Doan Thi Hong Tam, Collaboration-Oriented Modeling of an Offshore Group Communication System (joint degree project - NTNU)

Wanning Zhu, Network coding improvement for Multipoints Relay flooding

Yike Liu, WCDMA Automation Workflow Analysis and Implementation

Mikael Olsson, A Comparison of C++, C#, Java, and PHP in the context of e-learning

Ge Song, Jitter Management in Circuit Switched Voice over HSPA Networks

Christos Papazafeiropoulos, Facilitating the adoption and use of the IP Multimedia System

## **2008**

Simon Leung and Johan Pettersson, Web 2.0 for IPTV

William Eklöf, Adaptive Video Streaming: Adapting video quality to radio to different radio characteristics

Darwis Darwis, Implementation and Analysis of VoIP CPE Management System using TR-069

Michel Shahan, Personalized TV with Recommendations - Integrating Social Networks

Darwin Valderas Núñez, Integration of sensor nodes with IMSErik Hedin, Social networks and mobile devices

Samir Dzaferagic, Secure Session Mobility for VoIP

Erik Hedin, Social networks and mobile devices

Pontus Sköldström, Control and Integration of GMPLS networks

Carlos Angeles Piña, Distribution of Context Information Using SIP

Athanasios Makris and Andreas Strikos, Daedalus: A media agnostic peer-to-peer architecture for IPTV distribution

Martin Hörlin, Voice Over IP for Textphones

Homayoun Derakhshanno, Voice over IP over GPRS

Tomas Joelsson, Mobile Web Browser Extensions: Utilizing local device functionality in mobile web applications

Daniel Jaurén, Generic Data Structure for a Security Policy Database

Julian Amso and Achille Faienza, IPsec Intrusion Detection Analysis: Using data from the Ericsson ET-MFX Board

Haruumi Shiode, SIP Presence User Agent for In-building Location Sensing by Utilizing WLAN Signal Strength

Max Weltz, Dial over Data solution

Kristofer Borgström, MMS Components for Web 2.0

## **2007**

Michail Vlasenko, Supervision of video and audio content in digital TV Broadcasts

Alexander Lindström, GMPLS multi-layer networking: Routing and constraint-based path computation in optical network segments

Hamid Shahzad and Nishant Jain, Internet Protocol based Mobile Radio Access Network Architecture for Remote Service Areas



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Boris Chazalet, Opportunistic Content Delivery utilizing Optimized Context Dissemination via the Service Interface in Ambient Networks

Claudia Muñiz García, Rapid Energy Transfer to an Energy Buffer

Per-Erik Svensson, Mobile TV as a Web Application: Mobile Web 2.0 - a new application framework for interactive Mobile TV

Christian Westermark, Mobile Multiplayer Gaming

Petter Edström, Overhead Impacts on Energy Efficiency in Long-Term Evolution Radio Networks

Zhengjian Zhao, REACH Automatic Safety Information

Tobias Eriksson, Orc Protocol Parser and Generator

Bartłomiej Spizewski, Device Discovery in Device Management Systems for Cellular Networks

Emilio Di Geronimo and Boris Kalaglarski, IMS Interworking

Lin Ji, Increasing Accuracy of Location Determination: Exploiting Phase Change Reconstruction and Timing Measurements

Antonio Aguilar, A Patient Identification System using RFID and IEEE 802.11b Wireless Networks

Iplu Saha and Mohammad Saqibuddin, Using Simple Mail Transfer Protocol on the Last Hop

Ivan Glauser, Improving Alarm Interoperability with External Systems for a Wearable Command Unit Using Service-Oriented Architecture linklings.com

Daniel Yunda Lozano, Improving vertical handover performance for RTP streams containing voice

Nupur Bhatia, Context-Aware Networks: Policy Management

Markus Swenson, A Distributed Approach to Context-Aware Networks

Admir Muhovic, Wireless Communication at the Swedish Defence Materiel Administration (FMV)

## 2006

Daniel Hassellöf (thesis accepted in 2008), Position Determination using multiple wireless interfaces

Mattias Åkervik, Network Performance and Online Gaming

Jacob Possne, Network Convergence or Divergence? A service perspective on the underlying requirements on future handsets.

Abhinash Murukesvan, Distributed Overlays in Wireless Sensor Networks

Xin Bai, Broadband Wireless Access in disaster emergency response

Gustavo Azzolin de Carvalho Pires, Multi-Cell Admission Control for WCDMA Networks

Roland Waltersson, Middleware for adaptive network connectivity

Xi Yang, The Use of One-Time Password and RADIUS Authentication in a GSS-API Architecture

Jesús Miguel Gutiérrez-Barquín, Network Independent Quality of Service: The role of Authentication, Authorization, and Accounting in a roaming environment

Leila Kalantari and Eva Rylander, Communication Solutions For Forestry Machines

Xavier Rondé-Oustau, Context Aware Adaptive Services

Syed Muhammad Ali, VoWiFi Roaming

## 2005

Xu Chen, Performance Analysis of Wireless Multiplayer Games on Terraplay System

Ivar Gaitan, Real-time services and multihop networks: Delay analysis of a multihop CDMA fixed relay network

Ajeet Nankani, Horizontal Handoffs within WLANs: A detailed analysis and measurement concerning voice like traffic

Martin Gårdlund, A Conceptual Model of Mobile Marketing for a Multinational Consumer Goods Company

CV of G.Q. Maguire Jr.

Erik Forsell, Internet Telephony: An Internet Service Provider's Perspective

Tung Vu Hoang, Secure data and voice over wireless networks in disaster and emergency response

Ayodele Damola, Peer to peer networking in Ethernet broadband access networks

Krishna Gutti, Low cost secure network connectivity for a municipal organization

Magnus Karlsson, Modelling and Evaluation of a Bluetooth Data Logger in the Presence of Interference Sources

Magnus Fredén, Mobile Internet - Testing of Internet services: From Client to Server and the communication link between

Chen Ta-wei, Optimization of Transport Security for Securing Peer-to-Peer Communication in Heterogeneous Networks

Romain Groleau, Multipath Routing in Wireless Ad Hoc Networks

Yan Zhang, Wireless Sensor Network for Volcano Monitoring

## 2004

Johannes Jansson, Context-aware Service Allocation in Personal Area Networks

Juan Carlos Martín Severiano, IEEE 802.11b MAC layer's influence on VoIP quality: Measurements and Analysis

Cecile Ayrault, Service discovery for Personal Area Networks

Diego Urdiales Delgado, Implementation and Evaluation of the Service Peer Discovery Protocol

Cao Weiqiu (Mike), A new Content Distribution Network architecture - PlentyCast

Avgeropoulos Konstantinos, Service Policy Management for User-Centric Services in Heterogeneous Mobile Networks

Ming-Shuang Lang, Home Gateway Service Platform

Xiaoxin Wang, 3G HSDPA Performance In Mobile Internet Connections

## 2003

Ola Westin, TCP Performance in Ad Hoc Networks

Fredrik Glifberg, Optimisation of End-to-End TCP Performance in A UMTS Network

Peter Coyet, Mobil Positionering Med Kartstöd (Mobile Positioning With Map Support)

Vahid Mosavat, SIP Extensions for the eXtensible Service Protocol

Asim Jarrar, Context Server support for opportunistic and adaptive mobile communication

Magnus Sjöstedt and Oskar Bergquist, IP Telephony - A Swedish Perspective

Johan Eckerström, Location aware communication

Adrian Mahdavi, Value Added Services and Content Platforms

Roberto Gioacchino Cascella, Reconfigurable Application Networks through Peer Discovery and Handovers

Erik Holmlund, A comparative study of two different network based layer three IP Virtual Private Network solutions

Andreas Wennlund, Context-aware Wearable Device for Reconfigurable Application Networks

Björn Jonsson, Bluetooth QoS Scheduler - won a stipendium from the "Stiftelsen ISSLS 2000" for this exjobb in 2006

Gustav Söderström, Virtual networks in the cellular domain

## 2002

Bo Liu, The Integration of GSM and WLAN Systems Based on a Mobile Terminal

Anders Berggren & Martin Borg, A Comparative Study of Two Multicast Routing Algorithms

CV of G.Q. Maguire Jr.

Daniel Hedberg, Network Processor based Exchange Terminal: Implementation and evaluation

Daniel Broms, Access restrictions in surrogates using Portable Channel Representation

Fredrik Ericsson, Agent based mobile Internet services

Magnus Almkvist and Marcus Wahren, Preserving Integrity in Telecommunication Networks opened by the Parlay Service Interface

Niklas Ögren, Selecting/Realization of Layer 2 VPNs using Multiprotocol Label Switching or Virtual Local Area Networks

Jian Liu, Configuration of a DTM Switch, Algorithms and Simulation Results

Marco Cordella, User-to-Network Interface in Optical Network

Klas Kristiansson, Future Management Network

Juan Caballero and Daniel Malmkvist, Experimental Study of a Network Access Server for a public WLAN access network

Jonas Bülow, Mobile IP and AAA Services

## 2001

Gustaf Erikson, Application of inertial sensing to handheld terminals

Mikael Gunnarsson, Truck - Trailer Wireless Connection

Martin Altinkaya and Saman Ahmedi, SIP in an Interconnector and Service Provider Role

Torbjörn Borison, Object Synchronisation and Security for Mobile Communication Devices

Fredrik Hacklin, A 3G Convergence Strategy for Mobile Business Middleware Solutions

Fredrik Östman, Automated Interface Switching for Wireless PDAs

Ulrika Leufvén, Synchronization in a Wireless World - can SyncML handle the task?

Joakim Kristiansen, QoS simulation of IP based GSM and EDGE Radio Access Network

Ola Backlund, Integration of UMTS with policy based networks

Erik Wiklander, Mobile Resource Awareness

Zsuzsa Fey, Customizing and optimizing TCP/IP in a satellite network

Marika Mattila, Secure Communication in Mobile Internet

Johan Ervenius and Filip Tysk, Dual-mode Capability in a WLAN-equipped PC for Roaming and Mobility between WLANs and GPRS Networks

Carin Andreasson, Usability Studies of Wireless LAN Systems Design of the MUST -- Method for Usability Studies and Tests

Susanne Strålfors, Smart Browsing

Lars Lindgren, Using GPRS and the Ronja Platform for Wireless Monitoring of Vehicles

Erik Åman, A Distributed Cache for Very Large Objects

Torkel Dominique, Information services based in SIP

Jasminko Mulahusic, IPv6 Integration into 3G Mobile Networks

## 2000

Cecilia Jondring and Katerina Stefanidis, MANETv6 - Mobile Ad hoc Networks with IPv6

Enikö Fey, The Effect of Combining Network and Server QoS Parameters on End-to-End Performance

Mikael Lind, Virtual Community Networks

Tomas Jyde, Design, Structure and Development of Transparent Redundancy for Firewalls - Using the Firewall Redundancy Protocol (FRP)

Michael Jansson and Niklas Eriksson, Management of voice based group communication

Anders Roxenhag, VoIP and IPsec

Zakaria Bennani, Quality of Service Support for Wireless LANs

CV of G.Q. Maguire Jr.

Fredrik Jansson and Marcus Larsson, Portal Payment Possibilities  
Fredrik Lilieblad, Implementation and evaluation of a new charging model for mobile networks  
Daniel Linder, Transport Security for the Next Generation Mobile Terminals  
Jia Liu, Bandwidth Broker for DiffServ Networks  
Daniel Gracia Pérez, Analysis and implementation of a Policy Server  
Carl Wickbom, SIP and payments  
Magnus Sjöberg, Verifying Service Level Agreements in an end-to-end QoS Network  
Henrik Hedlund, A gateway between Jini and UPnP  
Magnus Karlsson, From XML to RDBMS  
Fredrik Christiansson, A distributed, mobile positioning system for wireless, handheld devices  
Fredrik Thernelius, SIP, NAT, and Firewalls  
Peter Lewandowski, WAP as support for the IT-company  
Anders Björkman, Host Configuration in ZEROCONF Networks  
Ali Nowbakht, Usability evaluation of Resource Reservation Protocol(RSVP)  
Stefan Carlsson and Erik Halén, Mobile Internet - Content Adaption for Limited Devices  
Ulrik Karlsson, Electronic payment and control functions in the BESTYR project  
Fabio Moiola, Security Framework for IP-based Wireless LAN  
Henrik Hjalmarsson, Image Communication for Emergency Services  
Henrik Vaks, WAP: Possibilities and Limits  
Niklas Wiberg, Profile Handling Gateway/Proxy  
Sabrina Giacometti, WAP security  
Nicklas Nilsson, Application services via the Internet  
Fredrik Palmquist, Satellite data communications as a complement to GSM  
Anders Byttner, Internet Telephony using the Session Initiation Protocol  
Jonas Törnroth, A Server Based Wireless Wallet Enabling Secure Payment Transactions  
Klas Karlsson, "Mobile positioning system"  
Mikael Nilsson, "Internet based location presentation based on GSM and GPS"

## 1999

Nilofar Nazemi Shad, "Test Support for Daily Build"  
Michael Nilsson, "Fast and Gigabit Ethernet vs. ATM for Campus Networks"  
Sam Spens Clason, "Using GSM Short Message Service for Internet Applications"  
Mikael af Ugglas, "Accounting Management on a DTM network"  
Ulf Jönsson and Fredrik Ariksson, "MIPMANET - Mobile IP for Mobile Ad Hoc Networks"  
Per Lindtorp, "Utilizing Space Capacity in Radio Access Networks"  
Edin Bektesevic, "Embedded Linux for Purposes of Internet Appliances"  
Pontus Östlund, "Integration of an optical network element in a TMN system"  
Johan Hjelm and Henrik Eriksson, "Content Aware Mobile Email Services"  
Tomas Boström, Olle Lindroos, and Lennart Hellström, "Simple Mobile IP"  
Johan André, "Automated test procedure for GSM Over-The-Air SIM file management"  
Milosz Elofsson, "RAS in VoIP Networks"  
Johan Sandstrom, "LANi analysis of router-net"  
Andreas Sjögren, "IPSec end-to-end security: will it change the design of future networks?"  
Ignacio Mas Ivars, "Universal Multimedia Access in MPEG-7"  
Johannes Lindman and Peter Johansson, "Global secure message handling"

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John G Hallén, “Test of SSL Security Communication products”

Martin Börjesson, “Creation & Deployment of Voice Browsing Services”

Mattias Ronquist, “TCP Reaction to Rapid Changes of the Link Characteristics due to Handover in a Mobile Environment”

Mikael Ejner, “Bi-directional Differentiated Services in a Broadband Access Server”

Maria (nee Holmsten) Lagemar, “Mobile IP: Mobile Datacommunication For Mobile User”

Elisabetta Carrara, “Wireless Adaptation of a security Management Protocol Suite”

Mats Kvickers, “How suitable is IPv6 for access networks?”

Christian Olrog, “GSM SoftModem on Linux, a Direct Radio Link Protocol Interface”

Magnus Ekstrand, “Traffic Prioritization Subject to Cost”

Linda Swärd, “Monitor IP telephony - With Probe Tool?”

Per Källgården, “Mobile Electronic Commerce & the Implementation of a commerce server”

Tommy Egman, “Solution Verification for Call Centre in BC10”

Sofia Lilja, “Determining Network Usage”

Jonas Haggård Ljungquist, “Transport protocols for IP-traffic over DVB-T”

Adam Lorentzon, “Biometric Smart Card User Verification”

David Hossieni, “Adding Gigabit Ethernet access to an ATM switch”

Fredrik Baecklund, “Software architecture for a scalable carrier class edge router”

Pontus Norman, “A Study of Extensible Markup Language (XML)”

Thabit Ibrahim, “Image Watermarking for Secure Image Communication”

Yavor Al-Shaikhly, “Implementing Policy-Based Network Management”

Rama Pourrajaei, “TCP/IP Packet Flow Analyzer”

## **1998**

Hossein Arefi, “ATM Passive Optical Networks (PON)”

Jonas Larsson, “Real-time multimedia transmission over a Dynamic synchronous Transfer Mode network”

Bruno Blank and Mattias Häggström, “Mobile Communication In a Multiple Device Environment”

Kalle Becker, “Calling your mailbox”

Lars Johansson, “SNMP based management for voice response system”

Jonas Lundberg, “Wireless Markup Language (WML) and Java”

Masoud Fatollahy, “ISP Selectivity Using NAT”

Kerry S. Lowe, “Web based management of an Edge Router”

Daliang Wen, “MPLS Label Distribution in an Edge Router”

Ronnie Bodinger, “An MPLS Connection Manager in an Edge Router”

Eleftherios Dimitriou, “An Archive Robot for Video Mail”

Magnus Hedin, “Distributed Directory Services”

Sami Mäkelä, “Extranet Security”

Joakim Forsberg, “HTTP in a Realtime OS”

Andreas Högström and Anders Åsbrink, “Development and Implementation of secure group communication over the Internet”

Daria Sheikholmolouki, Fault corrections dealing with extrnal B-party information

Ulf Björklund, “Understanding the performance of IPv6 Implementations”

Erik Veillas, “Simulations on an IP-based real-time network”

Mahmoud Rahmani, “Statistical Reports for Intranet Applications with Database Connectivity”

CV of G.Q. Maguire Jr.

Ebrahimi Hamid, "Linjelyssnare för DECT-basestation".

Olle Cederberg and Nils Skogfeldt, "The Call Forwarding Agent"

Ziad Ismail, "Enhancing Usability in a Distributed System".

Pontus Nyrelli, "Modelling of Autostart for an AXE 10 Extension Module Group".

Simon Zeeck, "Cellular Interworking: Handover between WATM and GSM".

Stefan Sjöquist, "Secure Database Access in Java Applets".

Sami Talbi, "Investigation of Web Based Manager in a GSM SIM Application Platform".

Omid Shabrokh, "Designing a Supervision Platform On the design of a generalized supervision platform for radio base stations, suited for cross-platform application written in JAVA".

Jonas Lundström, "Mobile Computing in Sales Force Automation systems".

Christian Jansson, "Making the Communications Network aware of the user's location".

Jonny Svärling, "An Integrated Addressing Architecture for the Internet and the Telephone Network".

Hamid Mosavi Porasl, "WWW based database in JAVA".

Kristoffer Wendelin, "Platform Independent Software for Remote Control of a GPS Receiver".

Mikael Brejcha, "Talaria: A Distributed Architecture for Supporting Monitoring and Collaborative Information Retrieval".

## 1997

Fredrik Widfeldt, "Usage of LDAP for managing users and resources in a computer network".

Rosso Salmanzadeh, "Management of Data Broadcast Servers".

David Kasujja, "QoS over Winsock 2 via ATM".

Johan Franson, "Agents in Communication Networks"

Ola Källgården, "Speech Recognition API -- or how to talk some sense into your computer".

Arash Rassoulpour Sadra and Filip Rosenbaum, "Handoff in Mobile IP networks".

Christer Unstrand and Kristian Gillberg, "HotSpot: A Multi-agent System for Dynamic Resource Allocation: Location and Discovery of Resources and Services Using Automated Negotiation for Resource Allocation".

Henrik Eriksson, "The Personal Assistant Framework: Enabling Augmented Reality in Ordinary Web Browsers".

Mikael Lundeberg, "Mobile internet router-2".

Rickard Sjöberg, "Design and implementation of an efficient H.263 video encoder".

Tobias Jönson, "Presentation of News Telegrams on the World Wide Web".

## 1996

Joakim Bergkvist, "Dynamic models of real-time data sources".

Rune Walhgren, "Broadcast of financial information: How to broadcast web information to wireless users".

Mohammed Khalade, "A Study of the requirements of a Scalable Application Server in Internet".

Niklas Ålemark, "Specification and development of an image acquisition and processing system with IR communication capabilities".

Jesper Stenmark, "Available Bit Rate in an ATM Network".

Gabriel Gründl, "Modulation Techniques and Medium Access Control Protocols for High-speed Wireless LANs".

Christoph Haeberlein, "Generating test pattern for ATM applications".

Jonas Jonsson, "E13 Mux - Study and prototyping".

Mikael Beerman, "Implementation and evaluation of a Mobility Agent".

CV of G.Q. Maguire Jr.

Per Thorell, "Time Warped Polynomials applied to videocoding".

Ulrika Wase, "Integration av Orbix och distributionen av objekt inom Ericsson Broadband System (Integration of Orbix and the distribution of objects within Ericsson Broadband System)".

## 1995

Patrik Blomberg, "Construction and Implementation of a Walkstation Mobile-Distributed File System Testbed".

Fredrik Drugge, "Design of Multimedia Help System in UNIX".

Mats Ebler and Ander Flodén, "Mobilitet för trådlös multimedia".

Lars-Erik Mickos, "155Mbps UNI 3.1 hardware interface".

Lasse Hagmann, "Simulating the Global Positioning and Communication system".

Thomas Wahlund, "Process för att placera ut nya koncentratornoder i ett publikt dataknät".

Mats Mikaelsson, "The AXE File Transfer program".

Ming-King Cho, "Paving the Information Superhighway at SNRA: A Proposal for Multimedia Traffic Information Systems".

Fouad Dabbous, "The Mobitex Network in the point of sale application".

Parsova Khayatan, "Implementation av WWW\_Server hos Ericsson Radio LY/U Customer Training".

Stefan Klåvus and Johan Petersson, "Automatisering av WWW-tjänster för medieföretag" ("WWW production for the Advertising Industry").

Tobias Tornqvist, "Graphical treatment of mail logs".

Håkan Lindell, "Modul för analog telefoni och fax".

Konstantin Gritsis, "Management of PDH network equipment".

Gunnar Olsson, "Digital video over an ATM network".

Martin Skarve, "Test Application for the Call Setup Server".

Janne Lindblad, "BeCool (Broadband Enterprise Cooperative Language OR Beteus Cooperative Language)."

Per Skoglund, "Provision of reliable multicast services in ATM networks based on group communication servers".

Fredrik Lundberg and Jan-Erik Öhman, "AviVtxW3: A gateway, WWW to Videotex, Incorporating Videotex into the World Wide Web".

Grish Manoukian and Shahin Talaei, "A Simulation Study of Centralized and Distributed Routing Methods in Non-Hierarchical Networks".

Thomas Mattisson, "Integration of Computer Telephony into Ericsson Corporate Network".

Anders Jonsson Fresk, "Ethernet communication in a PC environment".

Ming Ma, "Design and Implementation of B-ISDN User Part Signal Generator and Analyzer".

## 1994

Martin Sanden, "Traffic generator for LIM module of the MD110".

Per Persson, "Radar Simulator for the EP17".

Li Wei, "Gateway between Packet and Switched Networks for Speech Communication".

### *External Reader for Masters Thesis*

Kalamullah Ramli, (Honours Master of Engineering (in Telecommunications Engineering) 1997), "Developing An Alternate Interaction Device for Domestic Multimedia Environment", University of Wollongong, Wollongong, NSW, Australia.

CV of G.Q. Maguire Jr.

Yang Xiaoning, (M.S., 1994), “A New Controlled Video Frame Loss Scheme for Video Transmission Over High Speed Networks”, National University of Singapore, Dept. of Electrical Engineering.

*(non-M.S.) Thesis Supervisor*

Choon Hai “Sean” Wong, (Bachelor of Engineering degree, 2003), “Context-aware Support for Opportunistic Mobile Communication”, Department of Engineering, University of Aberdeen (U.K.), May 2003.

Fernando Cubeles Marquez, “A New Badge Server for the Smart Badge”, Final project of Telecommunication engineering, Royal Institute of Technology, Teleinformatics Department, Kista, Sweden and Escola Politecnica Vilanova i la Geltru, EUPVG, Spain, 1997.

Ramon Bayan, “IR communication to/from a Smart Badge”, Final project of Telecommunication engineering, Royal Institute of Technology, Teleinformatics Department, Kista, Sweden and Escola Politecnica Vilanova i la Geltru, EUPVG, Spain, 1997.

*Examiner for Bachelors Thesis, Kandidate thesis, or “Högskoleingenjör”  
Examinations Report*

**2017**

Oscar Melin, Matching Performance Metrics with Potential Candidates

Utsav Kaushik and Antonio Grondowski, Conversion Rate Optimization of e-commerce using web analytics and Human-computer interaction principles

Niklas Tellini and Fredrik Vargas, Two-Factor Authentication - Selecting and implementing a two-factor authentication method for a digital assessment platform

**2016**

Pontus Engström, Modernizing forms at KTH using digital signatures

Murat Gabdurahmanov and Simon Trygg, Analysis and Evaluation of Network Management Solutions

**2015**

Jimmy Quresmini, Location based sports/fitness app: Android app for smartphones

Carl Johansson and Soren Kavosi, Automating Interactions with Web Services: NFC based attendance software in Java

Carl Svensson, Automatic Log Analysis System Integration: Message Bus Integration in a Machine Learning Environment

Andreas Bergstrand and Cristian Bude, Internet of Things: Exploring and Securing a Future Concept

Martin Eklund and Patrik Ståhlberg, Distributed denial of service attacks: Protection, Mitigation, and Economic Consequences

Sajaval Choudrey and Kim Hiltunen, Moln för Försvarsmakten

**2014**

Gabriel Sund and Haroon Ahmed, Security challenges within Software Defined Networks

Magnus Stjern and Staffan Aldenfalk, Investigation of pattern recognition algorithms to determine depth and volume of water inside the sump of a pumping station

Rasmus Ekman, Automobile Control Systems: Transition from Controller Area Networks to Ethernets

Joakim Sandberg, Inter-Vehicle Communication with Platooning



## **2013**

Rafid Karim and Haidara Al-Fakhri, Smart Door Lock: A first prototype of a networked power lock controller with an NFC interface

Sanzida Kabir, Säkerhetsstandard för ett mjukvarubaserat säkerhetslement

Maria Magnusson, LAN and WLAN planning, deployment, and evaluation,

Laurier Ndikuriyo and Mohammad Abdulla, Toward a Network Based 3D Printing Service

Younes Bentahar, DNS prestanda

## **2012**

Robert Mört, Content based addressing: The case for multiple Internet service providers

Gilbert Lidholm and Marcus Netterberg, Evaluating an IPv4 and IPv6 Network

Marcus Wallsterrson and Stefan Åhman, EVH2 protocol: Performance analysis and Wireshark dissector development

Fredrik Folke, Security for home, small & medium sized enterprises IPv6 networks: Security using simple network equipment

Alfred Andersson and Ivan Bremstedt Pedersen, More than downloading: Visualization of data produced by sensors in a home environment

Abdel Ahmid, More than downloading: Toward a scale with wireless connectivity

Zephernia Kintu, Migrating to IPv6

## **2011**

Sara Klingberg, IT och Datahantering vid Börsnotering: En Analys av ett Bortglömt Område, 2011

Mikael Edbor, Swedish vs. Japanese mobile technology, 2011

Jarrar Jaffrey, Social Media and Marketing, 2011

Ludvig Ahlinder and Anders Eriksson, Accelerating Adoption of IPv6, 2011

Philip Huss, Säker granneupptäck i IPv6 (Secure Neighbor Discovery in IPv6), 2011

## **2010**

Axel Fant Eldh and Mattias Kirvesniemi, Economical and Political Implications of DNSSEC Deployment, 2010

Mikael Rapp, Scalability Guidelines for Software as a Service, 2010

Elis Kullberg and Hannes Junnila, IPv6 multicast home proxy, 2010

## **2009**

Anders Nilsson and Magnus Lindberg, Virtually@Home, 2009

Thor Håden, IPv6 Home Automation, 2009

## **2008**

David Sabaté Mogica, Remote Desktop: Integrating multiple devices, 2008

Micke Falk and Matias Fernandez Karlsson, Driftövervakning av Windows och Linux/Unix servrar, 2008

Sara Dannerud, Sårbarheter i routrar och switchar (Vulnerabilities in routers and switches), 2008

## **2007**

Richard Sandsund and Joakim Samuelsson, Implementing a Virtual Private Network, 2007

## 2002 to 1996

Peter Brundin, LESpy - PCM Link Analyzer, 2002

Martin Filimonovic, "Voice over IP - SIP client", 1999.

Måns Kjellgren, "Changemanagement & problemprocessing på SEB IT", 1999.

Valentin Oprean, "IPSec, general information", 1998.

Aysha Sallah Yai Sallah, "Mobile Computing in Association with the Semi-Connected Mode for Mobile Point-to-Point Protocol", 1998.

Anders Kuntzel, Lars Setterstål, and Claes Bertenstam, "Evaluating QoS for H.323 video applications", 1998.

Lie Fujita and Madeleine Beije, "Internet Protocol Security", 1997.

Anna Falk Drugge, "User Centered Communicating Devices", 1997.

Peter Håll, "IPv6", 1996.

### *Not Published*

- [1] Mat Hans, Christopher Hoover, Gerald Q. Maguire Jr., and Mark Smith, "Badge 4 Embedded Development Kit: Bastille Day Release", HP Labs, 19 July 2002, (formerly) available from: [http://www.hpl.hp.com/personal/Mat\\_Hans/research/badge4/](http://www.hpl.hp.com/personal/Mat_Hans/research/badge4/)
- [2] Mat Hans, Gerald Q. Maguire Jr., and Mark Smith, "Badge 4 setup", working Draft, on 12/12/2001 it had a limited released at HP Labs and Georgia Institute of Technology.
- [3] T. Kanter, G. Q. Maguire Jr. and A. Escudero, "Measurement of minimum handover time in IEEE 802.11b managed mode", November 2001
- [4] Juntong Liu, Gerald Q. Maguire Jr., Mihai Mateescu, Andreas Schmidt, and Reinhard Ruppelt, Document of network architecture strategies and tradeoffs, ESPRIT MEDIA report, KTH Stockholm, 1999.
- [5] Yuri Ismailov, G. Q. Maguire Jr., and Frank Reichert, "Internetworking with Mobitex," Technical Report, ISRN KTH/ITR 96-01, 1996.
- [6] George Liu and G. Q. Maguire Jr., "A Virtual Distributed System Architecture for Supporting Global-distributed Mobile Computing," Technical Report, ISRN KTH/ITR 95-01, December 1994.
- [7] George Liu and G. Q. Maguire Jr., "A Survey of Caching and Prefetching Techniques in Distributed Systems", ISRN KTH/IT/R--94/xx--SE, October 1994.
- [8] J. Ioannidis, D. Duchamp, G. Q. Maguire Jr., and S. Deering. *Protocols for Supporting Mobile IP Hosts*. Technical Report Internet-Draft, Mobile IP Working Group, June, 1992.
- [9] John Ioannidis and Gerald Q. Maguire Jr. *Using IPIP for Remote Bridging at the IP-level*, Technical report, Columbia University, Computer Science Department, New York, NY, report number CUCS-015-91, 1991
- [10] John Ioannidis and Gerald Q. Maguire Jr. *The Coherent Trivial File Transfer Protocol*, Technical report, Columbia University, Computer Science Department, New York, NY, report number CUCS-043-90, 1990.

- [11] John Ioannidis, Gerald Q. Maguire Jr., Israel Ben-Shaul, Marios Levedopoulos, Micky Liu. *Porting AIX onto the Student Electronic Notebook*, Technical report, Columbia University, Computer Science Department, New York, NY, report number CUCS-042-90, 1990.
- [12] Dan Duchamp, Steve Feiner, Gail E. Kaiser, and Gerald Q. Maguire Jr., "Integration of Knowledge Bases into an Environment of Portable Electronic Notebooks", Columbia University Computer Science Department, 6 March 1990 {A background document as part of the Student Electronic Notebook project.}
- [13] John Ioannidis and Gerald Q. Maguire Jr. *PIP-1: A Personal Information Portal with wireless access to an information infrastructure*. Technical Report, Columbia University, Computer Science Department, New York, NY, report number CUCS-055-90, December, 1990. {Presented to the NSF Workshop on Microelectronics Education, Washington, DC, October 1990.}
- [14] Jonathan M. Smith and Gerald Q. Maguire Jr. *System support for "multiple worlds"*, Technical report, Columbia University, Computer Science Department, New York, NY, report number CUCS-437-89, 1989.
- [15] Jonathan M. Smith and Gerald Q. Maguire Jr. *Exploring "multiple worlds" in parallel*, Technical report, Columbia University, Computer Science Department, New York, NY, report number CUCS-436-89, 1989.
- [16] Jonathan M. Smith and Gerald Q. Maguire Jr. *Transparent concurrent execution of mutually exclusive alternatives*, Technical report, Columbia University, Computer Science Department, New York, NY, report number CUCS-387-88, 1988.
- [17] Jonathan M. Smith and Gerald Q. Maguire, Jr. *The RB Language*. Technical Report, Columbia University, Computer Science Department, New York, NY, report number CUCS-364-88, 1988.
- [18] Jonathan M. Smith and Gerald Q. Maguire, Jr. *The RB Language*. Technical Report, Columbia University, Computer Science Department, New York, NY, report number CUCS-338-88, 1988.
- [19] Jonathan M. Smith and Gerald Q. Maguire Jr. *Choices in the Design of a Language Pre-Processor for Specifying Redundancy*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-270-87, November, 1987.
- [20] Jonathan M. Smith and Gerald Q. Maguire Jr. *RB: Programmer Specification of Redundancy*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-269-87, November, 1987.
- [21] Gerald Q. Maguire Jr. and Jonathan M. Smith. *Process migration Effects on scientific computation*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-268-87, 1987
- [22] Russell C. Mills, Zdenek Radouch, and Gerald Q. Maguire Jr. *A New Kernel for the DADO2 Parallel Computer*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-267-87, September 1987.

- [23] Mark D. Lerner, Michael van Biema, and Gerald Q. Maguire Jr. *A LISP Compiler for the DADO Parallel Computer*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-146-85, 1985.
- [24] G.Q. Maguire Jr., T.G. Weiss and M.E. Noz. *A Standard Set of Frame Buffer Primitives for Standardizing Image Display Programs*. preprint - Columbia University. 18pp., March, 1985.
- [25] Mark D. Lerner, Gerald Q. Maguire Jr., and etc. *An overview of the dado parallel computer*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-157-84, 1984
- [26] Stephen Taylor, Gerald Maguire Jr., Salvatore J. Stolfo, and Andy Lowry. *Analyzing prolog programs*, Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-117(A)-84, 1984
- [27] Michael K. (nee Weisberg) van Biema, Mark D. Lerner, Gerald Q. Maguire Jr. and Salvatore J. Stolfo. *PSL: A Parallel Lisp for the DADO Machine*. Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-107-84, February, 1984.
- [28] Salvatore J. Stolfo, Gerald Q. Maguire Jr., and Mark D. Lerner, *Ppl/m The system level language for programming the DADO machine*, Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-104-84, 1984.
- [29] Stephen Taylor, Andy Lowry, Gerald Q. Maguire Jr., Salvatore J. Stolfo. *Logic Programming Using Parallel Associative Operations*, Technical Report, Columbia University, Department of Computer Science, New York, NY, report number CUCS-96-84, 1984
- [30] G.Q. Maguire Jr. *A Graphical Workstation and Programming Environment for Data Driven Computation*. Ph.D. thesis, University of Utah, March, 1983.
- [31] Robert R. Kessler, Shane V. Robison, and G.Q. Maguire Jr. *Design Goals and Data Structures of the GPL Workstation*. Report, Data Driven Research Project (DDRP), Department of Computer Science, University of Utah, 7 April 1982.
- [32] M.L. Griss, E. Benson, R. Kessler, S. Lowder, G.Q. Maguire Jr. and J. W. Peterson. *PSL Implementation Guide*. Technical Report, Utah Symbolic Computation Group, Department of Computer Science, University of Utah, 1982.
- [33] G.Q. Maguire Jr. *Program Transformation In REDUCE Using Rule Sequencing*. Master's thesis, University of Utah, December, 1980.
- [34] M.L. Griss, A.C. Hearn and G.Q. Maguire Jr. *Using The MODE Analyzing version of REDUCE*. Operating Note 48, Utah Symbolic Computation Group, Department of Computer Science, University of Utah, June, 1980.
- [35] M.L. Griss and G.Q. Maguire Jr. *TLISP: Using Pcode to Implement LISP Systems*. July, 1979.

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- [36] M.L. Griss, R.R. Kessler and G.Q. Maguire Jr. *TLISP: Using Pcode to Implement LISP Systems*. Technical report, University of Utah, Department of Computer Science,, Utah Symbolic Computation Group, report number Operating Note UUCS-79-110, June, 1979
- [37] Martin L. Griss, Robert R. Kessler, and Gerald Q. Maguire Jr. "TLISP - A Transportable LISP Implemented in Pcode", Technical report, University of Utah, Department of Computer Science, Salt Lake City, report number UCP-74, UUCS - 79-110, April 1979

### *Consulting*

Clarion Capital Corporation, East Lake, Ohio; De Facto Industries Ltd., U.K.; Fifth Generation Computer Corp., NYC; Hewlett-Packard Corporation; Nodecrest Medical Systems, Ltd., U. K.; Radiology Department, Middlesex Hospital, New Brunswick, New Jersey; Radiology Department, New York University Medical Center; Radiation Therapy Division, Department of Radiology, University of Utah; and Varian Associates

### *Board Membership*

Former board member for the Research Center for Radiation Therapy (RCR), Department of Medical Radiation Physics, Karolinska Institute and Stockholm University, Sweden.

Former alternate for Celo Communications Ltd. (Ireland), former board member Celo Communications AB (Sweden) (Celo was purchased by Gemplus.)

### *Advisory Board Membership*

Member: 2007 - Ericsson Broadband Visionary Board

Member: 2002, 2003, 2004, 2005, 2006, 2007, 2008 - Motorola Research Visionary Board

Aug. 2001 - present. Member of the International Advisory Board for International Graduate School in Information and Communication Technologies organized by Alpine Research and Development Laboratory for Networks and Telematics (ARDENT) at the University of Trento (Italy).

Former advisor to the board of Celltribe AB (Sweden).

Formerly an advisor to the board of Kenet Works (now part of Yahoo!)

### *Reference groups*

Researchers at the Radio Systems Lab at the School of ICT, KTH and the Center for Wireless Systems (Wireless@kth), Mats Nilson and Gerald Q. Maguire Jr. (Editors), *Future Mobile Services & Applications for the Defence - Trend Scanning*, Radio Systems Lab KTH – Skolan för Informations- och Kommunikationsteknik , A report prepared at the request of FOI, 2017

Member of the reference group for the report: Bo Karlson, Östen Mäkitalo, Mats Nilson, and Jens Zander, "Roadmap: Wireless Systems 2005 to 2010", Wireless@KTH, 2005.06.10 - commissioned by Invest in Sweden Agency (ISA) .

### *University Service*

Mentor in Arbetsgivarverket mentorprogram för nyanlända akademiker, Fall 2016- Spring 2017.

KTH Royal Institute of Technology, member of the KTH reference group on language issues: “Ledamöter i KTH:s referensgrupp för språkfrågor” (Språkkommittén), “2015-04-01 och tills vidare, dock längst till och med 2018-03-31”

KTH Royal Institute of Technology, elected member of “Fakultetskollegiet”, February 2005 to January 2009 (extended by KTH’s president through spring 2009); re-elected for October 2010 to January 2013 (Fakultetskollegiet ceased to exist 31 March 2011 and was replaced by the “Fakultetsrådet”).

Elected Interim vice chairman of the KTH/ICT school collegium, Spring 2008-Fall 2008.

KTH Royal Institute of Technology, “Lärrarrepresentanter i tjänsteförslagsnämnden ITU”, ledamöter suppleant 1 January 2004 to 31 January 2007.

KTH Royal Institute of Technology, represented KTH in selection of the first Fulbright Stockholm Chair in Wireless E-Commerce (a joint visiting chair between KTH and the Stockholm School of Economics) 2000.

KTH Royal Institute of Technology, Member of the committee examining and planning the overall development of computing, 1997 (resulting report “IT at KTH - Now and in the Future”).

KTH Royal Institute of Technology, Member of the “valförsamling” (university election committee) to select the next president (rector) of the KTH, 1997.

Columbia University in the City of New York, University Senate - Faculty Affairs Committee 1988-1992, and Alumni Relations Committee Fall 1990-1992.

Columbia University in the City of New York, University Senate 1988-1992.

### *Classes Taught*

#### **KTH Royal Institute of Technology, Department of Teleinformatics, later Department of Communication Systems**

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<b>Course name</b>	<b>Course Number</b>	<b>Semester or Date</b>	<b>Students completing</b>	<b>Remarks</b>
Research Methodology and Scientific Writing	II2202	Period 1 and Period1&2, 2017	120 (in P1) TBD (P1&2)	course responsible, one of the teachers for this course, responsible for all of the students in period 1 and roughly one quarter of all students in P1&P2
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2017	10	
Internetworking	IK1552	Period 4, 2017	11	

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Wireless and Mobile Network Architectures	IK2555	Period 3, 2017	7	
Research Methodology and Scientific Writing	II2202	Period 1 and Period1&2, 2016	48 (in P1) 67 (P1&P2)	course responsible, one of the teachers for this course, responsible for all of the students in period 1 and roughly half of all students in P1&P2
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2016	11	
Internetworking	IK1552	Period 4, 2016	15	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2016	7	
Research Methodology and Scientific Writing	II2202	Period 1 and Period1&2, 2015	~212	course responsible, one of the teachers for this course, responsible for 4 of 7 recitation groups (all three of the groups in period 1)
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2015	17	
Internetworking	IK1550 (IK1552)	Period 4, 2015	10+6	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2015	4	
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2014	14	
Internetworking	IK1552	Period 4, 2014	1	Taught together with IK1550
Internetworking	IK1550	Period 4, 2014	25	

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Wireless and Mobile Network Architectures	IK2555	Period 3, 2014	16	
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2013	11	
Research Methodology and Scientific Writing	II2202	Period 1, 2013	161	One of the teachers for this course, with lectures in quantitative methods, writing, and oral presentations; responsible for two of six recitation groups
Internetworking	IK1552	Period 4, 2013	1	Taught together with IK1550
Internetworking	IK1550	Period 4, 2013	23	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2013	32	
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2012	24	
Research Methodology and Scientific Writing	II2202	Period 1, 2012	113	One of the teachers for this course, with lectures in quantitative methods, writing, and oral presentations; responsible for one of five recitation groups
Internetworking	IK1550	Period 4, 2012	>25	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2012	>46	
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2011	>24	



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Research Methodology and Scientific Writing	II2202	Period 1, 2011	>89	One of the teachers for this course, with lectures in quantitative methods, writing, and oral presentations; responsible for one of four recitation groups
Internetworking	IK1550	Period 4, 2011	>33	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2011	>30	
Research Methodology and Scientific Writing	II2202	Period 1, 2010	>150	One of the teachers for this course, with lectures in quantitative methods; responsible for one of five recitation groups
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2010	>75 students register for the course, 15 had finished by 2010.11.29	
Internetworking	IK1550	Period 4, 2010	>27	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2010	>39	98 active students
Emerging Technologies and Applications	IBCDP 4	25 November 2009		Contract education via KTH Education AB
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2009	>59	
Internetworking	IK1550	Period 4, 2009	>32	

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Emerging Technologies and Applications; modules: New types of networks, new players and From People Communicating to Devices Communicating	IBCDP3	20 February 2009		Contract education via KTH Education AB; 4 of the 6 technical cases were mine
Wireless and Mobile Network Architectures	IK2555	Period 3, 2009	>36	
Emerging Technologies and Applications	IBCDP3	20 Jan. 2009		Contract education
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 1, 2008	18	
Practical Voice Over IP (VoIP): SIP and related protocols	IK2554	Period 4, 2008	>47	
Internetworking	IK1550	Period 4, 2008	>7	
Wireless and Mobile Network Architectures	IK2555	Period 3, 2008	78	
Protocols in Computer Networks	IK1350	Period 3, 2008	12	
Cognitive Radio: Context-aware service control & coordination of distributed resources and devices: especially for devices with multiple (or reconfigurable) wireless network interfaces	FIK3556	Summer 2007		Intensive doctoral course, lectures by Joseph Mitola III
Practical Voice Over IP (VoIP): SIP and related protocols	2G1325	Period 4, 2007	38	
Internetworking	2G1305	Period 4, 2007	18	
Wireless and Mobile Network Architectures	2G1330	Period 3, 2007	96	
Internetworking	2G1305	Period 1, 2007	25	
Internetworking	2G1305	Period 4, 2006	32	
Practical Voice Over IP (VoIP): SIP and related protocols	2G1325	Period 4, 2006	39	
Wireless and Mobile Network Architectures	2G1330	Period 3, 2006	65	

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Practical Voice Over IP (VoIP): SIP and related protocols	2G1325	15 & 16 September 2005	1 doctoral student and 4 MS students	For students involved in projects this fall
Internetworking	2G1305	Period 5, 2005	56	
Wireless and Mobile Network Architectures (Trådlösa och Mobila Nätverksarkitekturer)	2G1330	Period 4, 2005	43	Doctoral and undergraduate course
Practical Voice Over IP (VoIP): SIP and related protocols	2G1325/ 2G5564	Period 4, 2005	21 MS +1 doctoral student	Doctoral and undergraduate course. Additionally several students at University of Trento (Italy) had lectures based on this course *
Ubiquitous Computing: Wireless Sensor networks		Period 3, 2005	~60	2 hour lecture on sensor networks in this course at DSV
Practical Voice Over IP (VoIP): SIP and related protocols	2G1325/ 2G5564	2004.10.21	8 MS + 1 doctoral student	Intensive doctoral and undergraduate course
Advanced interactive systems: Wireless Sensor networks		Period 4, 2004	~24	2 hour lecture on sensor networks in this course at DSV
Wireless and Mobile Network Architectures	2G1330	Period 4, 2004	43 MS + 10 doctoral students	Doctoral and undergraduate course
Practical Voice Over IP (VoIP): SIP and related protocols	2G1325/ 2G5564	Period 4, 2004	18 MS + 3 doctoral students	Doctoral and undergraduate course
Pricing for Communication Networks	2G5569	Period 4, 2004	~12	Intensive doctoral course, lectures by prof. R. Battiti (Univ. of Trento, Italy)

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\*G. Q. Maguire Jr. and Roberto Cascella, Voice over IP: SIP e relativi protocolli, Lecture notes (in Italian), July 2005.

CV of G.Q. Maguire Jr.

Practical Voice Over IP (VoIP): SIP and related protocols	2G5564	2003.06.23	2 + 3 exjobbers	Intensive doctoral course
Ubiquitous Computing: Sensor Applications		Period 4, 2003	~12	2 hour lecture on sensor networks in this doctoral course at DSV
Wireless and Mobile Network Architectures	2G1330	Period 4, 2003	29 MS + 4 doctoral students {80 <sup>+</sup> students attended the lectures}	Doctoral and undergraduate course - with ~35 students from ISH
Practical Voice Over IP (VoIP): SIP and related protocols (Röst över IP (VoIP) i praktiken: SIP och relaterade protokoll)	2G5564	Period 3, 2003	~12	Doctoral course; additionally several students followed this course at University of Trento (Italy)
Telecommunicationsystems module: Fabian Stäber, "A Framework for a Community Network Based on Mobile IPv6"	2G1303	Period 4, 2002	1	a 10p "Studienarbeit" project
Wireless and Mobile Network Architectures (Trådlösa och Mobila Nätverksarkitekturer)	2G1330	Period 4, 2002	~48	Doctoral course
Internetworking	2G1305	Period 3, 2002	~140	
Kommunikationssystem/ Communication Systems Design	2G1319	Periods 3&4, 2001	~65	a double lecture, advising one project group, answering questions for another group
Telecommunicationsystems module: Mobile Personal Communication	2G1303	Period 4, 2000	~95	co-taught with Mark T. Smith
Internetworking	2G1305	Period 3, 2000	~150	

CV of G.Q. Maguire Jr.

Telecommunicationsystems module: Mobile Personal Communication	2G1303	Period 4, 1999	~72	co-taught with Mark T. Smith
Internetworking	2G1305	Period 3, 1999	~160	
Mobile Personal Communication: Access Points	2G5535	Period 4, 1998	~7	Doctoral course; co-taught with Mark T. Smith
Location/Context Aware Personal Communication	2G5541	Period 4, 1998	~12	Doctoral course; co-taught with Mark T. Smith
Telecommunicationsystems module: Mobile Personal Communication	2G1303	Period 4, 1998	~73	co-taught with Mark T. Smith
Internetworking	2G1305, 6B3755, 6B2007	Period 3, 1998	~270	
Computer networks (Nät) module of System Admin. course		Summer 1997	11	
Telecommunicationsystems module: Mobile Personal Communication	2G1303	Period 4, 1997	~60	video course; co-taught with Mark T. Smith
Telesystem, gk	2G1960/ 2G1961/ 2G1962	Period 3, 1997	~350	
IT-arkitektur	ITP53	1 Jan. 1997	~50	1 lecture Kista+Visby
Gruppkommunikation, IT-arkitektur och Beslutsstödsystem	ITP34	1 Nov. 1996	~25	1 lecture of intensive course for Posthögskolan
Telesystem, gk	6B3741 6B3743	Period 2, 1996	~70	3 lectures
Datakommunikation (KTH-Haninge)	6A4635	5 August 1996	??	2 lectures
Telecommunicationsystems module: Mobile Personal Communication	2G1303	Period 4, 1996	63	co-taught with Mark T. Smith
Telecommunicationsystems module: Internetworking	2G1303	Period 4, 1996	63	

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Telesystem, gk	2G1961	Period 3, 1996	~150	
Telesystem, gk	2G1962	Period 2, 1995	~200	video and multicast course
Gruppkommunikatoin, IT-arkitektur och Beslutsstödsystem	ITP34	27 Oct. 1995	~30	1 lecture of intensive course for Posthögskolan
Teleinformatik I		18-27 Sept. 1995	5	intensive course for Posthögskolan
Telecommunicationsystems module: Mobile Personal Communication	2G1303	Period 3, 1995	36	video and multicast course; co-taught with Mark T. Smith
Telesystem, gk	2G1961	Period 2, 1994/1995	~380	video and multicast course
Telesystem, gk	2G1302	Spring 1994	~200	3 lectures
Telesystem, gk	G1962	Fall 1993	206	4 lectures + course director
Telesystem, gk	G1963	Fall 1993	270	3 lectures

**Technische Universität Graz, Institut für Angewandte Informationsverarbeitung**

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Course name	Course Number	Semester	Students completing
Rechnernetze	505.086	Spring 1994	~10
Rechnernetze, Exercises	505.087	Spring 1994	~10
Seminar (Routing)		Spring 1994	1

**Columbia University in the City of New York, Department of Computer Science**

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Course name	Course Number	Semester	Students completing	Remarks
Distributed processing	CS 6851	Spring 1993	17	

## CV of G.Q. Maguire Jr.

Computer Organization	CS 3824	Spring 1993	36	
Computer Organization	CS 3824	Spring 1992	43	
Modeling and Performance Evaluation	CS 6180	Fall 1990	26	video course
Computer Networks	CS 4119	Spring 1990	36	
Programming Languages and Translators	CS 4115	Fall 1989	55	
Computer Networks	CS 4119	Spring 1989	58	video course
Operating Systems	CS 4118	Fall 1988	43	
Artificial Intelligence	CS 4701	Fall 1987	43	
Operating Systems	CS 4118	Fall 1987	25	
Symbolic Computation - Languages, Environments, and Computers: Techniques and Special Purpose Computers for Symbolic Computation	CS 6998	Spring 1987	27	
Operating Systems	CS 4118	Fall 1986	66	video course
Introduction to VLSI Design	CS 4841	Fall 1985	28	
Introduction to Operating Systems	CS 4118	Fall 1985	108	
Introduction to Operating Systems	CS 4118	Spring 1985	55	
Introduction to VLSI Design	CS 4841	Fall 1984	22	
Introduction to VLSI Design	CS 4841	Spring 1983	25	

Also several sections of E4901 and E6901 “Projects in Computer Science” and several thesis projects (the last completed in 2003!).

## **Manhattan College, Health Sciences Department**

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<b>Course name</b>	<b>Semester</b>
Radiation Protection	Summer 1976

### *Systems*

#### **SmartBadge**

In conjunction with Mark T. Smith of HP Labs and H. W. Peter Beadle (then of the Univ. of Wollongong (Australia)), we have constructed a “SmartBadge”. A wearable computer the size of an ID card which communicates via a wireless link with a badge server in the infrastructure. The badge has sensors for temperature, humidity, light, audio in/out, and tilt or 3-axis acceleration. The SmartBadge has been used in courses at both KTH and the Univ. of Wollongong; as well as in numerous MS thesis projects.

## **MINT router**

In conjunction with researchers at the Royal Institute of Technology and Mark T. Smith of HP Labs, we have constructed a “mobile internet router”. The purpose of this device is to provide a framework for exploring wireless interfaces for mobile (IP and other protocol) networks. An outgrowth of this work was an initial definition of SNMP MIBs for Mobile IP.

## **Student Electronic Notebook**

I was responsible for the system portion of this (joint with IBM in 1989-1990) research project whose objective is to explore the future of student portable, wireless computing in the University environment. This type of computing has been described as “more personal than a PC”. This work has already resulted in a new parallel booting protocol - which is one of the first protocols to exploit coherence in network traffic. My work with John Ioannidis involved extending IP based protocols to support mobile hosts. This was a significant change since IP addresses encode the network address as part of the IP address. This work lead to the Mobile IP protocol.

## **Image processing**

The qsh image processing package of which I am one of the two main authors (and the principal designer) which has been used at a number of locations, including: Karolinska Hospital (Sweden), Memorial-Sloan Kettering, Yale University, University of Pennsylvania, University of Utrecht (The Netherlands), University of MA Medical Center, Hanyang Univ. Hospital (Korea), Mayo Clinic, Washington University, Case Western Reserve University, GE Medical Systems, and Pixar.

A total of 18 different frame buffers are supported (with some under both UNIX and DEC VMS). Professional support for qsh was offered by Radio Logic, Inc., New Haven, CT. A nuclear medicine system built around qsh was available from Bartech Group, Farnborough, Hants, England. This system decoupled the user from both dependence on a specific frame buffer (prior to the MIT X windows work) and from vendor specific image formats (see image formats work below). It also supports an X window as a type of frame buffer.

This image processing software was the inspiration for our later software called Dxmenu (developed together with M. E. Noz and M. P. Zeleznik). This software has been used by a number of doctoral students at Karolinska Institute for work leading to their dissertations (in Radiology and Orthopedics) and by researchers at both New York University and Karolinska Institute.

## **Special purpose machines**

I helped design (1988) a PostScript accelerator attached processor which has been built for me by DFI, Ltd., U.K. This is the first attached processor which has been designed to be used as a PostScript Server, completely decoupling the rendering from the marking engine. Thus it can be used to drive multiple slow printers, or a film recorder, or screen previewers. While multiple accelerators can be used in parallel to drive a high speed print engine. The PostScript Accelerator is a raster image processor module based on the Weitek XL-8200 family of high speed RISC processors. The speed of the initial system is shown in comparison to the Harlequin ScriptWorks (SW) package, which is a PostScript interpreter written in C:

<b>File</b>	<b>Accelerator</b>	<b>Software</b>
ventura	50 seconds	85 seconds
skier	25	40
fish2 - similar to escher	192	405
spaceman	26	56



Note: the original Harlequin timings for spaceman was 8.95 minutes while the (Beta release) took 1.85 minutes (all timings on a SUN 3/160). The Apple LaserWriter takes ~4 minutes.

## **Image formats**

The earlier image format, of which I was the major author, was adopted by the American Association of Physicists in Medicine as their standard for digital image data exchange. See: "A Standard Format for Digital Image Exchange" American Association of Physicists in Medicine Series, Report number 10, American Institute of Physics, 1982. This standard was adopted by the NIH, National Cancer Institute, Radiation Oncology section for image and radiation treatment planning exchange (thus it is used by MA General Hospital, Lawrence Berkeley Laboratories, UCLA, Mayo Clinic,...).

My papers on image standards and PACS systems helped lead to the ACR/NEMA Standard 300-1985. [This is a U.S. standard.]

In January 1989, the EEC COST-B2 committee adopted a standard based on my additions to the original AAPM format as the European standard for exchange of Nuclear Medicine images. This was also adopted as the standard in Canada, New Zealand, and Australia.

This work served as a basis for the commercial development by David Reddy of Interformat.

## **PSL**

The Portable Standard LISP system which I worked on for many years was compared very favorably with respect to performance against many other LISP systems in *Performance and Evaluation of Lisp Systems* by Richard Gabriel, MIT Press, Cambridge, MA, 1985. PSL beat the performance of Franzlisp, such that it got better performance on a VAX 750 than Franz did on a VAX 780. In addition, the same software (modulo the code generator and one OS specific module) was running on the DEC System20, the DEC VAX (UNIX and VMS), 680x0 machines (including HP and Apollo), IBM 370, CRAY, B6700,.... The syslisp mode for writing LISP code which allowed use of untyped LISP was one of my contributions to this system. PSL was the basis of the initial commercial LISP systems sold by both HP and Apollo. PSL has been distributed to well over 400 sites worldwide, for example: Peter A. Steenkiste and John L. Hennessy of Stanford University utilized PSL as the base for their interprocedural register allocation research.

At Columbia I guided the implementation of a version of PSL for the DADO machine. This was the base for a parallel LISP (PPSL). The constructs which were developed in PPSL became the basis for the parallel C implementation used by the DADO project.

## **PS-EXPRES related work**

The National Science Foundation's experimental electronic proposal submission software developed during 1988-1989 at CMU by Jim Morris and Chao Ping Yang utilizes the named fields of several of the NSF forms which I provided in PostScript™.