EIT DIGITAL MASTER SCHOOL

Tomorrow’s Digital Innovators and Entrepreneurs

Petri Vuorimaa, Aalto University

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Student Life

- Aalto has six schools with around 12,000 students and 4,000 employees of which close to 400 are professors.
- Our campuses are located in Espoo and Helsinki, Finland.
- With 37% of our academic faculty coming from outside Finland, we are a highly international community with strong academic standing.
Professors

- **Prof. Perttu Hämäläinen**: games, animation technology, human-computer interaction, gameplay innovation, exercise gamification, procedural animation
- **Prof. Juho Kannala**: computer vision, machine learning
- **Prof. Samuel Kaski**: machine learning, probabilistic modelling, artificial intelligence, bioinformatics, computational medicine, user interaction, brain signal analysis
- **Prof. Jaakko Lehtinen**: computer graphics, physically-based image synthesis, appearance capture, realistic image synthesis
- **Prof. Tapio Lokki**: room acoustics, perception, virtual acoustics, 3D sound, psychoacoustics, binaural technology
- **Prof. Lauri Malmi**: computing education research, educational technology, software visualization, gameful learning
- **Prof. Lauri Savioja**: room acoustics, virtual acoustics, audio, virtual Reality
- **Prof. Tapio Takala**: computer graphics and animation, new interaction technologies, multimodal interaction, social media
- **Prof. Petri Vuorimaa**: web services, web applications, web of things
Compulsory Courses

• WWW Applications (5 ECTS)
• Introduction course for Master's students (1 ECTS)
  • Career and working life skills
• Language course (3 ECTS)
  • Compulsory degree requirement, both oral and written requirements
• I&E Study Project (6 ECTS)
Optional Courses

• Computer Vision (5 ECTS)
• Complex Networks (5 ECTS)
• Social Media (5 ECTS)
• Mobile Cloud Computing (5 ECTS)
• Big Data Platforms (5 ECTS)
• Special Course in Computer Science (1-10 ECTS)
• Special Assignment in Computer Science (1-10 ECTS)
• Individual Studies in Computer Science (1-10 ECTS)
Recent Thesis Topics

• Managing Data Visualization Pipeline with Backbone.js and D3.js
• Benchmarking Performance of Data Serialization and RPC Frameworks in Microservices Architecture
• MimiSmile: Mimicking game using 3D virtual characters' facial expressions for learning scenarios for children with autism
• Contracting Service for Industrial Internet
Recent Thesis Topics

• Ethereum Blockchain Visualization with Semantics
• TalentPal: A Platform for Newcomers and Locals to Integrate
• Instant Load: Improving Loading Performance of Single-Page Applications
• UI Construction for a Web-Based IDE on an Industrial IoT System
• Building An AR Treasure Hunt Game Using Indoor Localization Technology
• Serverless data processing applied to big mobility data
THANK YOU