Abstract

The goal of this thesis project is to find new, innovative ways of context information in order to make it more useful. This is achieved by developing a new approach to context-addressed communication dispatch, meaning that information is to be sent to a user on the basis of the user's context. Therefore, the destination will be identified by context, instead of the user's contact address (e.g. all phone numbers, a meeting room). Communication sessions can be triggered based upon context and context information is provided non-intrusively to the corresponding context provider. An approach for context-addressed communication dispatch is described in detail in [1] and evaluated in [2].

1. Context

Context addressing is a suitable means of content information collection & distribution in a mobile distributed environment. In [1] we examine the use of context-addressed communication dispatch. A context-aware context provider can be regarded as a context server. It is responsible for establishing, maintaining, and terminating context sessions with the user's device, as well as inquiring concerning the device's location. In [1] we have developed an approach to context synthesis based on context operators for dynamically composing context. Therefore, the destinations will be identified by context, instead of the user's contact address (e.g. all phone numbers, a meeting room). Communication sessions can be triggered based upon context and context information is provided non-intrusively to the corresponding context provider. An approach for context-addressed communication dispatch is described in detail in [1] and evaluated in [2].

2. Context Distribution: Between Context Sources

A device can share its context information (i.e. discovered and exchanged, with other geographically nearby devices which have done the same to receive direct peer-to-peer context). Context information is to be sent to a user on the basis of the user's context. Therefore, the destination will be identified by context, instead of the user's contact address (e.g. all phone numbers, a meeting room). Communication sessions can be triggered based upon context and context information is provided non-intrusively to the corresponding context provider. An approach for context-addressed communication dispatch is described in detail in [1] and evaluated in [2].

3. Context Distribution: Between Context Sources and Context Server

Other context information needs to be broadcast over a mobile ad hoc network. In [1] we examine the use of context-addressed communication dispatch. A context-aware context provider can be regarded as a context server. It is responsible for establishing, maintaining, and terminating context sessions with the user's device, as well as inquiring concerning the device's location. In [1] we have developed an approach to context synthesis based on context operators for dynamically composing context. Therefore, the destinations will be identified by context, instead of the user's contact address (e.g. all phone numbers, a meeting room). Communication sessions can be triggered based upon context and context information is provided non-intrusively to the corresponding context provider. An approach for context-addressed communication dispatch is described in detail in [1] and evaluated in [2].

4. Context-based Call Logic

The approach based on exploiting context information to enhance the process of finding SIP addresses is implemented using Call Processing Language (CPL), a language to describe and control Internet telephony services. This is implemented using Call Processing Language (CPL), a language to describe and control Internet telephony services. The results of these evaluation are presented in [7].

5. User Social Relations Inference and Context Policy Management

User's context information about their current context with other users can be used to infer the user's context information in a user's environment. The user's context information can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is inferred) can be used to infer the user's context information in a user's environment. The user's context knowledge (once the context knowledge is infer...