ETH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Distributed Computing

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BA/MA/SA/Group/Lab:

Distributed Discussion Statistics

Smartphones are used to record calorie intake, count steps or track ones exercise sessions. Usually, one could also track these things manually but phones allow us to have a more objective perspective in the sense that phones do not "cheat". In a previous project, we showed that collecting statistics about discussions between people is feasible using an off the shelf smartphone. However, the solution does not yet scale to larger groups of people. Therefore, we would like to let more than one phone contribute sensor data to further improve our statistics.

The statistics we hope to obtain from this system will help us get a deeper understanding of how people interact in discussions. This in turn can be used to give impartial feedback to people who are fighting or even help understand why people get into fights in the first place. This project will focus on establishing a distributed measurement system that allows us to know who is speaking when in a reliable manner. Designing and implementing such a system will require a creative attitude to problem solving and a basic understanding of signal processing. While we do have a few ideas on how to get this project started, it will not hurt have a few ideas of your own.

Requirements: Creativity and good programming skills and advantageous. The student(s) should be able to work independently on this topic!

Interested? Please contact us for more details!

Contacts

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