Prof. Friedemann Mattern

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Biography
Friedemann Mattern obtained his Ph.D. from the University of Kaiserslautern, Germany, in 1989. From 1991-1994 he was Professor of computer science at Saarland University, and from 1994-1999 Professor of practical computer science and distributed systems at Darmstadt University of Technology. In July 1999 he was appointed full Professor at the ETH Zurich. Professor Mattern established a ubiquitous computing laboratory at ETH Zurich and conducts several research projects in this area.

Research Interests
Friedemann Mattern leads the distributed systems research group at the department of computer science. His research interests encompass infrastructures for ubiquitous computing, models and concepts for distributed computations, Internet applications, and programming of parallel and distributed systems. Two recent projects are Smart-Its and the M-Lab:

Smart-Its. www.inf.ethz.ch/vs/res/proj/smartits.html
The Smart-Its project is conducted under the European Union's Disappearing Computer initiative within the Future and Emerging Technologies programme. Its goal is to develop unobtrusive, deeply interconnected smart devices — called Smart-Its — that can be attached to everyday items in order to support new functionality. The Smart-Its project is conducted in cooperation with the Perceptual Computing and Computer Vision Group (ETH), the Computing Department at Lancaster University (U.K.), TecO (Germany), PLAY (Sweden), and VTT (Finland). The main objective of our group is to develop a hardware prototype based on Bluetooth and to evaluate infrastructures for interconnected embedded systems.

The M-Lab www.m-lab.ch
The M-Lab is a joint project of the University of St. Gallen and ETH Zurich. It identifies and creates effective business applications for smart things in the area of business-to-business — from the idea through to the prototype. Within this area its interest centers on the fields of life sciences, retail, automotive and logistics. Its goal is to build up a critical mass of highly qualified researchers and practitioners in the field of applied ubiquitous computing. Industrial project partners are among others SAP, Novartis, Volkswagen, Swisscom, Paul Hartmann.

Recent Publications