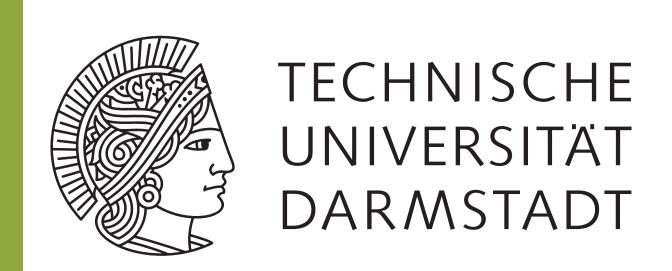
Ruzena Bajcsy



Lectures on Communications initiated by DFG SFB 1053 MAKI

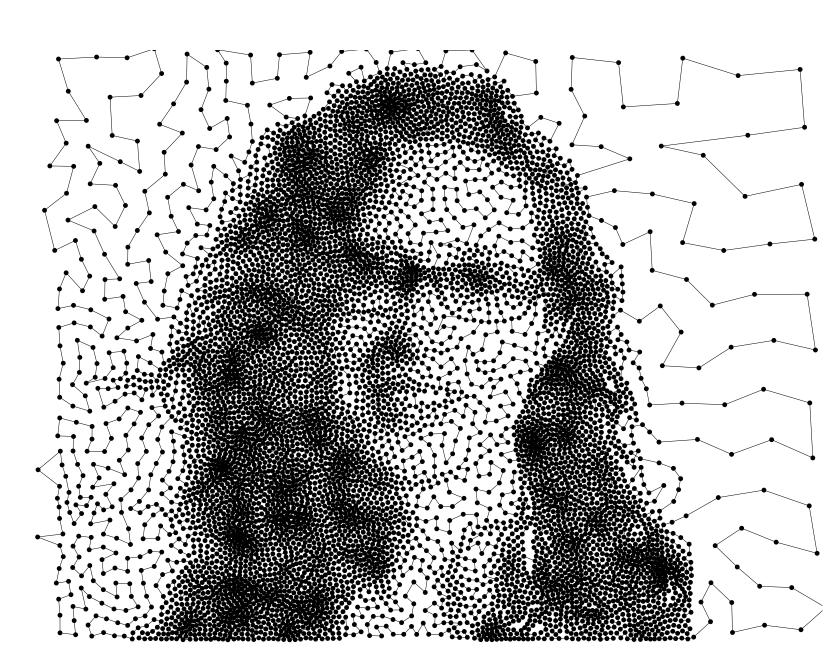


Ruzena Bajcsy is a role model for female scientists: her love of engineering and her zeal to thrive in a field that to this day is underrepresented by women is exemplary. Celebrating Ruzena Bajcsy, the SFB MAKI brings leading female scientists to TU Darmstadt.

Bettina Kemme

McGill Univeristy Montreal

S3-20/111 16:00h



Bettina Kemme is an Associate Professor and Director of the School of Computer Science at McGill University, Montreal, where she leads the distributed information systems lab. Her research focuses on large-scale distributed data management with a main focus on data consistency and data dissemination. She holds a PhD degree in Computer Science from ETH Zürich, and an undergraduate degree from the Friedrich-Alexander-Universitaet Erlangen, Germany. Bettina has published over 80 publications in major journals and conferences in the areas of database systems and distributed systems. In 2010, she won the VLDB 10year test-of-time award. She has served on the program committee and as area chair of major database and distributed systems conferences such as SIGMOD, VLDB, ICDE, ICDCS, Middleware, SRDS and many more. She is the PC Co-Chair of Middleware 2017, and a senior IEEE Member.

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Application-aware Content Dissemination

Publish/subscribe platforms, such as Apache Kafka, build the intermediary between content providers (the publishers) and those interested in the content (subscribers). Widely used in practice is topic-based pub/sub where publications are tagged with topics and subscribers indicate the topics they are interested in. But richer models exist that, for instance, allow subscriptions to define filters over message content. In this talk I will go a step further and suggest that pub/sub systems can provide even more powerful application support by allowing application semantics to be embedded in the pub/sub engine. I will present two systems that do just that. Our GraPS system stores domain information in form of graphs within the engine, and publications and subscriptions relate to this graph. Thus, GraPS enables a unique coupling of data dissemination with application context. As a second example of application awareness, our Evolve System allows subscriptions to change over time, and their evolution is taken care of within the pub/sub engine.

Agenda

15:30 Come together

16:00 Ruzena Bajcsy Lectures on Communications

Application-aware Content Dissemination Prof. Bettina Kemme, McGill University, Montreal

17:00 Celebration MAKI/CROSSING Female Student Travel Award 2017 Prof. Andy Schürr, Real-Time Systems Lab (ES)/SFB MAKI

Dr. Karin Sü߬ Gender Consultant at the Technische Universität Darmstadt

17:30 Get together