Ruzena Bajcsy

Lectures on Communications

initiated by DFG SFB 1053 MAKI

TECHNISCHE UNIVERSITÄT DARMSTADT

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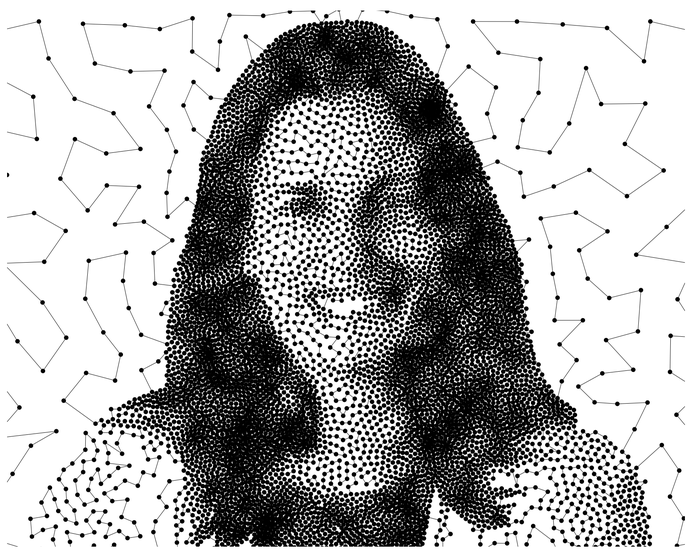
Ruzena Bajcsy is a role model for female scientists: her love of engineering and her zeal to thrive in a field that to this day is underrepresented by women is exemplary. Celebrating Ruzena Bajcsy, the SFB MAKI brings leading female scientists to TU Darmstadt.

Anna Förster

Universität Bremen



S3-20/111 16:15h
June 07, 2018

Anna Förster is currently a Professor at the Universität Bremen, Germany leading the Sustainable Communication Networks group. She received her PhD in Computer Science from the University of Lugano in Switzerland in 2009 and her Master's in Computer Science and Aerospace Engineering from the Freie Universität Berlin, Germany, in 2004. After her MSc graduation she spent a year as a junior consultant at the Business Technology Office of McKinsey & Company, before dedicating herself completely to research. Before joining the Universität Bremen in early 2015, she spent several years as researcher at the University of Applied Sciences of Southern Switzerland. Her research goal is to enable a sustainable future for computer networking. She is interested both in the usage of computer networking techniques for enabling sustainability and vice versa: enabling more sustainable and flexible computer networks. She is mainly concentrating on wireless networks, cyber physical systems and networks, internet of things, opportunistic networks and computing, massively distributed clouds, participatory sensing, wireless underground sensor networks, smart grids, etc. Furthermore, she is exploring the usage, further development, and adaption of machine learning techniques in these areas.

Organic Data Dissemination in Opportunistic Networks

Current opportunistic networking concepts mainly focus on destination-oriented applications, where the receiver is well-known. However, many real applications, such as logistical operations in disaster situations or smart city announcements, do not have dedicated receivers. Instead, all nodes are potential receivers and users of the data. In this talk, I will present our latest results from implementing a novel concept of opportunistic data dissemination, where network flooding is restricted organically by the non-permanent interests and needs of the users. The approach is highly scalable and offers very good performance in realistic scenarios, where the “value” of individual data items is not known a-priori.

Agenda

15:30 Come together

16:15 Ruzena Bajcsy Lectures on Communications

Organic Data Dissemination in Opportunistic Networks
Prof. Dr. Anna Förster, Universität Bremen

17:15 Celebration MAKI/CROSSING Female Student Travel Award 2018
Prof. Dr. Andy Schürr, SFB MAKI
Dr. Thomas Schneider, SFB CROSSING
Dr. Karin Süß, Gender Consultant at the Technische Universität Darmstadt

17:45 Get together

For further information please contact: gf@maki.tu-darmstadt.de