Abstract
The talk is focusing on disruptive network architectures build up by user cooperation. Currently there are first mobile apps available that allow users to access the mobile Internet via befriended users. This concept is not limit to simple network topologies and will extend dramatically in the future. The talk will explain the basic principles of those ideas and show the disruptive new technologies that will be used such as network coding. Also the key role of social mobile networks to foster the user cooperation will be highlighted. An important part is the role of the network operator that currently is locked out of the value chain but the talk will highlight potential revenue paths for the network operators to become an essential player.

Bio
Frank H. P. Fitzek is a Professor in the department of Electronic Systems, University of Aalborg, Denmark heading the Mobile Device group. He received his diploma (Dipl.-Ing.) degree in electrical engineering from the University of Technology - Rheinisch-Westfälische Technische Hochschule (RWTH) - Aachen, Germany, in 1997 and his Ph.D. (Dr.-Ing.) in Electrical Engineering from the Technical University Berlin, Germany in 2002 and became Adjunct Professor at the University of Ferrara, Italy in the same year. He co-founded the start-up company acticom GmbH in Berlin in 1999. He has visited various research institutes including Massachusetts Institute of Technology (MIT), VTT, and Arizona State University. In 2005 he won the YRP award for the work on MIMO MDC and received the Young Elite Researcher Award of Denmark. He was selected to receive the NOKIA Champion Award several times in a row from 2007 to 2011. In 2008 he was awarded the Nokia Achievement Award for his work on cooperative networks. In 2011 he received the SAPERE AUDE research grant from the Danish government and in 2012 he received the Vodafone Innovation price. His current research interests are in the areas of wireless and mobile communication networks, mobile phone programming, network coding, cross layer as well as energy efficient protocol design and cooperative networking.
Abstract
Today, techniques made popular by Web 2.0 enable massive cooperation of users. Following the spirit of Google Docs, where multiple editors can cooperate in real time in crafting a single document, we believe that it is only a matter of time before software development takes the step towards online editing and development. To study the different aspects of this phenomenon, we have implemented a collaborative coding environment that also has some features familiar from social media. In this talk, we demonstrate our collaborative coding tool with a number of developers who use the system to compose web services, and introduce our long-term vision on the different directions the work can be taken to. Towards the end of the presentation, we will also list the main lessons we have learned in the development process, as well as list feedback from evaluation with developers working with the implementation.

Bio
Tommi Mikkonen has held several software related positions in numerous settings, ranging from application development for a spacecraft to managing product-line architecture of Symbian products at a major telecom manufacturer. Since 2001 Mikkonen has been a professor at Department of Software Systems, Tampere University of Technology, Tampere, Finland. During 2006-2008 he was a visiting professor at Sun Microsystems Laboratory working on the Lively Kernel system, an exceptionally flexible web programming environment. Since then, he has worked on the topic in cooperation with a number of companies in Finland.