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Keynote Speech

The Sound of Data: Make Great Software!

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Abstract

Data is changing the world and how we build software. Running software produces large amounts of raw data about the development process and the customer usage, which can be turned into actionable insight. In this talk, I will motivate the need for data analytics and show how data science can improve the quality and reliability of software. I will characterize how data scientists work in a large software companies such as Microsoft helping software teams to infer actionable insights. I will highlight opportunities for researchers, practitioners, and educators.

About the speaker

Thomas Zimmermann is a Senior Researcher in the Research in Software Engineering (RiSE) group at Microsoft Research, Redmond, USA. His research interests include software productivity, software analytics, recommender systems, and games research. He is best known for his research on systematic mining of software repositories to conduct empirical studies and to build tools to support developers and managers. His work received several awards, including Ten Year Most Influential Paper awards at ICSE'14 and MSR'14, five ACM SIGSOFT Distinguished Paper Awards, and a CHI Honorable Mention. He currently serves as General Chair for SIGSOFT FSE'16 and as Program Co-Chair for ICSME'17. He is Co-Editor in Chief of the Empirical Software Engineering journal and serves on the editorial boards of several journals, including the IEEE Transactions on Software Engineering. He received his PhD in 2008 from Saarland University in Germany. His homepage is http://thomas-zimmermann.com.