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Towards interactive data analytics

Technology has been the key enabler of the current Big Data movement. Without open-source tools like R and Spark, as well as the advent of cheap, abundant computing and storage in the cloud, the trend toward datafication of almost every field in research and industry could never have happened. However, the current Big Data tool set is ill-suited for interactive data analytics to better involve the human-in-the-loop which makes the knowledge discovery a major bottleneck in our data-driven society. In this talk, I will present an overview of our current research efforts to revisit the current Big Data stack from the user interface to the underlying hardware to enable interactive data analytics and machine learning on large data sets.

Biography

Carsten Binning is a Full Professor in the Computer Science department at TU Darmstadt and an Adjunct Associate Professor in the Computer Science department at Brown University. He received his PhD at the University of Heidelberg in 2008. Afterwards, he spent time as a postdoctoral researcher in the Systems Group at ETH Zurich and at SAP working on in-memory databases. Currently, his research focus is on the design of data management systems for modern hardware as well as modern workloads such as interactive data exploration and machine learning. His work has been awarded with a Google Faculty Award, as well as multiple best paper and best demo awards for his research.

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