

System Software Support for Big Data (BigSys) *

Abstract: Big Data is one of the most important challenges for computer science research in the upcoming decade. Most research efforts so far concentrate on algorithms for analyzing and processing Big Data. The system software and infrastructure implications of Big Data processing are so far underrepresented. We intend to improve on this situation with our BigSys workshop. In this workshop, Big Data-related topics from all areas of system software, such as operating systems, middleware, and databases, as well as related topics from the area of system architecture are to be considered. Of special interest are the impact of high-performance architectures for Big Data, system-level methods to improve data processing performance, challenges in system software design, and architecting systems for Big Data in general. We would especially like to encourage contributions on topics covering multiple layers of the hardware/software stack.

The aim of this workshop is to bring together practitioners and researchers from all of these areas to discuss today's limitations, promising new concepts and possible new synergies in the domain of system software support for Big Data.

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*<http://ess.cs.uni-dortmund.de/workshops/bigsys/>