HPI Kolloquium
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Hasso-Plattner-Institut, Vorlesungsgebäude, Auditorium 1
Campus Griebnitzsee, 14482 Potsdam

"Property-based Data Access for the Semantic Web"

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Abstract

The Web as a global Information System has revolutionized everyday life. As one of the most disruptive technologies of the last decades, the Web was responsible for drastic technological, economical, and social developments: It is well established as main source of information and entertainment, but is also the most influential infrastructure for commerce and business. Especially, the introduction of linked open data (LOD) and the increasing variety of ready-to-use open data sources in the LOD cloud had far reaching consequences. Thus, a current goal in programming with Web data is to access all those entities in LOD data sources that correspond to some concept the software engineer of some application thinks of. Obviously too simple property-based data access may lead to selecting all kinds of entities and the quality of the selected data will be poor, if properties describing the intended concept are not well chosen. Thus, the property selection process needs effective quality metrics and innovative selection algorithms enabling transparency for this programming paradigm. In this talk we discuss the feasibility of such a program paradigm for accessing data from the LOD cloud in a data-driven fashion.

Kurz-CV

Wolf-Tilo Balke currently holds the chair for information systems at Technische Universität Braunschweig, Germany, and serves as a director of L3S Research Center at Leibniz Universität Hannover, Germany. Before, he was the associate research director of L3S and a research fellow at the University of California at Berkeley, USA. His research is in the area of databases and information service provisioning, including personalized query processing, retrieval algorithms, preference-based retrieval and ontology-based discovery and selection of services. He is the recipient of two Emmy-Noether-Grants of Excellence by the German Research Foundation (DFG) and the Scientific Award of the University Foundation Augsburg, Germany. He has received bis B.A. and M.Sc degree in mathematics and a PhD in computer science from University of Augsburg, Germany.

Host: Dr. Ralf Krestel