

HPI Kolloquium

20.01.2011, 16:00 Uhr

Hasso-Plattner-Institut, Vorlesungsgebäude, Auditorium 1
Prof.-Dr. Helmert-Str. 2-3, 14482 Potsdam-Babelsberg

“XXL2010 – TOWARDS A FLEXIBLE AND EXTENSIBLE INFRASTRUCTURE FOR GENERATING TAILOR-MADE DATA PROCESSING SYSTEMS”

Prof. Dr. Bernhard Seeger

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Abstract

In order to meet new user requirements and to exploit new hardware developments, many tailor-made data processing systems have been developed over the last 15 years. One fundamental research question is, therefore, how to design a flexible and extensible data processing architecture supporting the fast generation of tailor-made data processing systems. The XXL2020 infrastructure developed at the University of Marburg is one approach that has been shown to be successful, not only in academia, but also in industry.

In this talk, Prof. Seeger will introduce the basic concepts of XXL2020 and show examples of systems that have been derived from XXL. One such example is PIPES, a platform for data stream processing (aka complex event processing) that has been commercialized and since recently is owned by Software AG. More recent work is dedicated to facilitating the usage of XXL, whose primary interfaces are still too complex for non-experts. XXLinq is a pure Java approach that allows fast and easy coding of complex data-intensive application based on XXL. The ongoing (research) challenge of XXLinq is to optimize the declarative user code to run fast on modern hardware.

Gastgeber: Prof. Dr. Mathias Weske