

The Future SOC Lab

Young scientists at the HPI Research School have access to the HPI's world class research facility "Future SOC Lab." Operated since 2010 in collaboration with industry partners such as EMC, Fujitsu, Hewlett-Packard, and SAP, the Lab offers the latest massively parallel processing multicore machines with enormous main storage capacities as well as specially tailored software.



Application

Every year the Hasso Plattner Institute accepts a new generation of promising scientists to its international Research School. Scholarships are offered to suitable candidates who want to do their PhD or are aiming for a postdoc position. Applications are accepted until August 15 of each year at: www.hpi.de/research-school.

A Special Opportunity

PhD students who have successfully been conferred a doctoral by the HPI Research School demonstrate that they are able to make their own scientific contributions in their field of expertise. Additionally, they are superbly prepared for cooperation with scientists in various fields worldwide.

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HPI Research School

Service-Oriented Systems Engineering

Design IT. Create Knowledge.

Worldwide demand for excellent young scientists is continuously increasing. The current generation of researchers are expected to be experts on very specific topics in their particular fields. At the same time, they are called to help solve real-life problems, thereby transcending the boundaries of their own disciplines.

To bridge the gap between experts in different fields, the Hasso Plattner Institute for IT-Systems Engineering at the University of Potsdam created an exceptional program in 2005 to promote its doctoral education. In this exemplary new model, the traditional guidance of one PhD supervisor has been replaced by the concerted mentoring of a professor group and a rich exchange with international branches.

Our Research

The HPI Research School conducts research in different fields that come together under the umbrella of "Service-Oriented Systems Engineering." PhD students contribute to all aspects of service-oriented systems. These range from the low-level computer architectures they run on, to how they interconnect, process and exchange data in standardized ways, all the way to the user interfaces these systems provide, and the processes they support in companies. Among the fields that scientists at the Research School work in are:

- Algorithmic Engineering
- Architecture and Modelling
- Process Planning
- Security Engineering
- Service Composition
- Service-Oriented Systems in
3D Computer Graphics, Geoinformatics
and Human Computer Interaction
- Systems Software Support and Self-Adaptation

The Approach

PhD students have the opportunity to carry on a regular exchange with all HPI professors, whether at meetings in individual departments, in weekly doctoral seminars or on bi-annual research retreats in the country. Furthermore, the HPI Research School hosts the annual "Symposium on Future Trends in Service-Oriented Computing" during which PhD students from different universities and guests from the industry come together.

International Collaboration

HPI strives to internationally apply its model of shared mentoring of PhD students by a group of professors. To this end, the HPI has established branches of its Research School in South Africa (University of Cape Town), Israel (Technion) and China (Nanjing University). Annual workshops at these universities offer doctoral candidates the chance for collaboration in a global research network and to learn from the different contexts in which computer science is applied in these countries.



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