

Kolloquium Angewandte Informatik

Computer Science as a Research Enabler

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The presenter commenced his research career working in the Monads team. His personal contribution was the design and development of the world's first global distributed shared memory network, and innovative techniques for persistence of system state. He also worked closely with hardware, system, language/compiler, and software engineers gaining knowledge and skills that influenced and facilitated his subsequent journey in computer science.

This talk describes how this journey involved a major excursion into medical collaborations, with computer science enabling and underpinning projects that resulted in wide-ranging outcomes, for example that healthcare workers respond optimally to stroke emergencies, and clinicians have the skills and decision-making confidence so an acute ischaemic stroke victim recovers without permanent brain damage; cancer patients and their families better understand their unique situation and the available options; and pharmaceutical researchers have targets in the quest for effective management of schizophrenia.

This medical research demonstrated the need for highly configurable computer-based support tools. Accordingly the presenter, with members of his Distributed Computing Research Group, has developed a powerful web-based data collection and dissemination tool called QuON. His current quest is to formalise the processes involved in professional decision making, with a view to producing a generic system to support education, assessment and reinforcement of professional decision making skills.

Termin: Mittwoch, 28. Januar 2015, 14:00 Uhr

Ort: Kaiserstr. 89, 76133 Karlsruhe
Allianzgebäude am Kronenplatz ([Geb. 05.20](#)), Raum 2C-19
(Hinweise für Besucher: www.kit.edu.de/Allgemeines/Besucher)

Veranstalter: Institut AIFB, Forschungsgruppe Komplexitätsmanagement

Zu diesem Vortrag lädt das Institut für Angewandte Informatik und Formale Beschreibungsverfahren alle Interessierten herzlich ein.

Andreas Oberweis, Hartmut Schreck, Detlef Seese (Org.), Wolffried Stucky, Rudi Studer