

Brief Bio of Prof. Peter Struss



Prof. Peter Struss obtained a diploma in Mathematics from the University of Göttingen, before he moved into Computer Science and Artificial Intelligence. From 1978 to 1992, he worked in the Corporate R&D division of Siemens Corp., where he was in charge of the knowledge-based systems group. Although the work always aimed at solutions that were relevant to industrial applications, he and his group produced a number of important research contributions, particularly in the fields of Qualitative Modeling and Model-based Diagnosis. Among these are fundamental papers on mathematical foundations of Qualitative Reasoning (which was also the topic of his PhD thesis under the supervision of Jörg Siekmann in Kaiserslautern in 1990) and on model-based diagnosis based on fault models (the subject of his habilitation work at the Technical University of Munich in 1992). He stayed as a guest researcher at the Xerox Palo Alto Research Center several times and also at the International Computer Science Institute in Berkeley.

In 1992, Dr. Struss joined the Technical University of Munich as a Professor of Computer Science. Now in academia, he still maintained a strong link to industrial applications, particularly in the automotive industries.

Prof. Struss was a co-editor of "Recent Advances in Qualitative Physics", edited books on "Expert Systems for Technical Applications", on "Knowledge Representation" and on "Intelligent Diagnosis in Industrial Applications", and recently was a guest editor of the AI Magazine on Qualitative Reasoning. He was a member of the first editorial board of JAIR and served on numerous program committees in his special area (particularly the annual international workshops on Qualitative Reasoning and Principles of Diagnosis) and general AI conferences and workshops. He was the area chair on "Reasoning about Physical Systems" for ECAI-94, and a co-chair of QP90 and of the Intelligent Systems in Engineering Conference ISE-94. Among the invited talks he presented are the ones at ECAI 1992, FLAIRS 1996, and the Australian AI Conference AI'01. In the German Computer Association (GI), he acts as the speaker of the Knowledge Representation and Reasoning Group. He is a fellow of the European Coordinating Committee for Artificial Intelligence, and he promoted organization of work in Model-based Systems as a member of the executive board of the MONET network of excellence.