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Michael Sobolewski

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Dr. M. Sobolewski received his Ph.D. from the Institute of Computer Science, Polish Academy of Sciences and D.Sc. from the Polish-Japanese Institute of Information Technology. He is the Principal Investigator and Director of the SORCER laboratory (SORCERsoft.org) focused on research in distributed service-centric metaprogramming and metacomputing. Currently he is a World Class Scientist at the Air Force Research Lab, Aerospace Systems Directorate and a Professor at the Polish-Japanese Institute of IT, Warsaw, Poland. Before, he was a Professor of Computer Science at Texas Tech University from 2002 till 2009. In May 2007 he was awarded the title of Honorary Professor of Computer Science at Ulyanovsk State University, Russia, in appreciation of his pioneering contribution to the field of globally distributed service-oriented computing environments. In the period 1994-2002 he worked with General Electric Global Research Center (GRC) as a Senior Computer Scientist. From 1999 till 2003 he worked on OO grids, service-oriented, intelligent computing systems and developed a service-based programming methodology and architecture for the FIPER/NIST (Federated Intelligent Product Environment) project. While at GE GRC, Mike was a FIPER chief architect and lead developer. Later he continued the FIPER development under subcontract from GE GRC to TTU. In the period of 1997-2000 he lead and developed a generic web-based computing framework (GApp/DARPA and demonstrated 17 successful applications for various GE businesses including a document management system for the family of F110 engines—GE Aircraft Engines, a Web-based GE engineering specification system—GE Power Systems, an Engineering Calculator—GE Plastics. He led GE's successful CAMnet/DARPA project (1995-1996), developing tools and methodology to deliver manufacturing and engineering services via the World Wide Web. Also, in 1996 he led a successful Lockheed Martin EDN Toolkit project that provides enablers to built Web-based workbooks and record books.

In November 1989 until February 1994 he was invited to work on the DICE program at Concurrent Engineering Center (CERC), West Virginia University, where he developed a knowledge-based environment for concurrent engineering (DICEtalk) based on his novel percept knowledge representation scheme; a Motif-based generic application; a GUI client for information sharing system; and a GUI interface for medical informatics systems.

Prior to coming to U.S., during his 18-year career with the Polish Academy of Sciences, Warsaw, Poland, he was the head of the Picture Recognition and Processing Department, the head of the Expert Systems Laboratory, the head of Pattern Recognition Methodology Laboratory, and was doing research in the area of knowledge representation, knowledge-based systems, pattern recognition, image processing, neural networks, and graphical interfaces. Just before joining CERC, he was a research professor at the Institute of Computer Science of the Polish Academy of Sciences.

He has served as a visiting professor, lecturer and consultant in Sweden, Finland, Italy, Switzerland, Germany, Hungary, Czechoslovakia, Poland, Russia, China, and the USA.

Dr. Sobolewski has over hundred publications in journals, conferences and books in the areas of distributed computing, AI, knowledge representation, expert systems, object oriented programming, and concurrent engineering. He has taught AI, knowledge-based systems, computer graphics, graphical user interfaces, and OO programming courses. At Texas Tech University he taught: network security (Fall 02), computer networks (Spring 03, Fall 04, Fall 05, Fall 07), advanced network programming, (Spring 03), OO programming in Java (Summer II 03, Fall 04, Spring 06), peer-to-peer computing (Fall 03), computer science seminar (Fall 03), mobile computing (Spring 04), communication networks (Spring 05, Fall 06, Fall 07, Fall 08), design patterns (Fall 05), senior project design (Fall 06, Spring 07). He was the program chair for four International Conferences on Concurrent Engineering (1994-1996, 2004) and a general chair in 2005.

Selected honors/awards: Honorary Professor of Computer Science at Ulyanovsk State University, Russia, ASEE Faculty Fellow for 2006 and 2007 Air Force Summer Faculty Fellowship (SFFP) at AF Laboratory, Wright Paterson AFB; the Marquis Who's Who in America, Who's Who in Collegiate Faculty, International Who's Who of Information Technology; Strathmore's Who's Who VIP and Lifetime Member; Continental Who's Who Premier Member; GE Managerial Awards (1996, 98, 99, and 2000); International Society for Productivity Enhancement (ISPE) Leadership Award (1996); Award for Outstanding Service as the program chair for the 1st, 2nd, 3rd, 11th and the general chair for the 12th International Conference on Concurrent Engineering - Research and Applications (1994-96 and 2004-2005); Award for Outstanding Service to Mechanical and Aerospace Engineering Department, WVU, 1994; Fellow Member of ISPE, 1993; Visiting Scholar in Sweden, Finland, Italy, Switzerland, Germany, Hungary, Czechoslovakia, Poland, USSR, USA (1975-1989); M.S. Diploma with Distinction; the Valedictorian Award.