



Bernard P. Zeigler, Professor of [Electrical and Computer Engineering at the University of Arizona](#) (UA) and Research Professor in the [C4I Center at George Mason University](#), is internationally known for his seminal contributions in modeling and simulation theory. He has published several books including “[Theory of Modeling and Simulation](#)” and “[Modeling&Simulation-Based Data Engineering : Introducing Pragmatics into Ontologies for Net-Centric Information Exchange.](#)” He is well known for the Discrete Event System Specification (DEVS) formalism that he invented in 1976 and which is now

being used world-wide in advanced information systems. In 1995, he was named Fellow of the IEEE in recognition of his contributions to the theory of discrete event simulation.

He has given numerous keynote talks, tutorials and short courses, and organized symposia and conferences that were the first to promote modeling and simulation fundamentals and theory. His [autobiographical retrospective](#) on the evolution of the theory of modeling and simulation appeared in the International Journal of General Systems. (Vol. 32 (3)).

Zeigler served on two National Research Council committees to recommend directions for information technology and [simulation modeling in the 21st Century](#) and a third NRC committee that developed a book of recommendations on simulation enhancements to [systems acquisition and manufacturing](#). He is currently an advisor on Integrated Modeling and Testing for the [Productivity Enhancement, Technology Transfer and Training](#) program and a panel member for M&S infrastructure for Homeland Security.

Along with [Hessam Sarjoughian](#), Zeigler founded the [Arizona Center for Integrative Modeling and Simulation](#) (ACIMS) in 2001 dedicated to the development of modeling and simulation as a discipline of the future. ACIMS spun-off the RTSync company to advance the transfer of ACIMS technology to the marketplace.

Zeigler is the lead architect for the award-winning Automated Test Generator that is revolutionizing standards conformance testing of [Joint Department of Defense information systems](#). He is chief designer for the [Net-Centric Test Agent Capability](#) under development for testing mission thread interoperability and effectiveness of Defense Department transitions to the Global Information Grid with its Service Oriented Architecture. He received the JITC Golden Eagle Award for research and development and the NTSA Award for Best [M&S Development in the Cross-functional Area](#), 2004/2005.

Zeigler has been active in [The Society for Modeling and Simulation](#), (SCS), serving as VP for Publications, founding the [Journal of Defense Modeling and Simulation](#), and as President (2002-2004). Zeigler is a Fellow of the Society for Modeling and Simulation and received the [McLeod Founder’s Award](#), its highest recognition for research and development. He has also received the Presidential Award for Service to the Society, and was inducted into the [SCS Modeling and Simulation Hall of Fame](#) in 2009.

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