

Curriculum Vitae

Mieczyslaw M. Kokar, Ph.D.

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Research Interests

Information Fusion Higher-level information fusion. Situational awareness. Ontology based fusion. Fusion process refinement. Formal theory of multi-source information fusion. Category theory based fusion.

Cognitive Radios Principles, languages, strategies, techniques and algorithms for the concept of *Ontology-Based Cognitive Radio*. Policy-based control of cognitive radios.

Software Engineering Self-controlling software (specification and design of self-controlling software using the control theory metaphor; policy based control). Formal methods in Software Engineering (formalization of the UML language, consistency checking). Information Assurance (security policies, policy reconciliation and composition, context/situation based formal reasoning about security).

Semantic Web and Technologies and Applications Ontology-based system interoperability and integration. Semantic models of networks. Consistency checking of ontologies.

Education

Ph.D. in Computer Systems Engineering, Wroclaw University of Technology, Poland, 1973

M.S. in Electrical and Computer Engineering, Wroclaw University of Technology, Poland, 1969

Graduate courses in mathematics, University of Wroclaw, Poland, 1972-1976

Employment

1984 - present, Northeastern University, Professor (current). Teaching (graduate courses): Software Engineering; Introduction to Formal Methods for Software Engineering; Software Engineering Project; Machine Intelligence; Machine Learning; Expert Systems, Operating Systems; Data Structures.

1991-1992, The MITRE Corporation, Bedford, MA, visiting scientist (on sabbatical leave). Conducted research on sensor/data fusion in tracking and on reference models for open systems environments.

1982-1984, Millersville University of Pennsylvania, Associate Professor. Teaching: Programming in Pascal, Fortran and Assembly; Computer Organization; Discrete Mathematics; Data Structures.

1982-1984, HMW Enterprises, Inc., Etners, PA, software engineer. Design and emulation of operating systems of color graphic terminals on the HMW Rainbow terminal.

1969-1981, Technical University of Wroclaw, Poland, Assistant Professor. Teaching: Methodological Foundations of Modeling; Modeling and Optimization of Engineering Systems; Control of Chemical Systems. Research: Artificial Intelligence, Dimensional Analysis, Systems Science, Modeling. Served as Director of Research and Cooperation with Industry.

Professional Societies

- IEEE - Senior Member
- IEEE Control Systems Society - member
- IEEE Systems, Man and Cybernetics Society - member
- Association for Computing Machinery - member
- Technical Council for Software Engineering - member

Recognition and Selected Professional Activities

- Scientific research impact index (h-index) on June 4, 2013: 24
- Member of the Editorial Board of Information Fusion: An International Journal on Multi-Sensor Multi-Source Information Fusion.
- Editor of a special issue on High-Level Information Fusion and situation Awareness. International Journal of Information Fusion.
- Advisor to the DARPA XG, DTN, WNaN programs (2005 through 2010).
- Chair of the Working Group on the Modeling Language for Mobility (MLM). Software Defined Radio Forum.
- NSF Review Panel, Information & Knowledge Management.
- Technical Co-Chair. CogSIMA - the IEEE Conference on Cognitive Situation Management.
- General Co-Chair. SIMA - Workshop on Situation Management, IEEE MILCOM conference, October 2005.
- Publicity Co-Chair: KIMAS - Knowledge Intensive Multiagent Systems. Waltham, MA, 2002, 2004, 2006.
- General Chair: 1999 IEEE International Symposium on Intelligent Control, Cambridge, Massachusetts.

Languages

- Fluent in English, Polish and Russian

Personal Interests

- Tennis, skiing, windsurfing, mountain biking, dancing.