

DR. STEVAN MILINKOVIĆ: SHORT CV

Research Scientist
Department of Computational Biology
Mohamed Bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE
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Professor emeritus
Union University – School of Computing, Kneza Mihaila 6/VI, 11000 Belgrade, Serbia
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PROFESSIONAL INTERESTS

- Artificial Intelligence (AI) methods for uncovering molecular organization of life
- Smart energy
- Embedded AI and AI agents
- Dynamics of decentralized and distributed large-scale systems
- Distributed AI
- Technology Transfer of AI to industry

EDUCATION

Ph.D. Engineering Sciences, University of Belgrade, Serbia, 1993
Title: *Contribution to the study of the stability and control of the optical fiber drawing process*

M.Sc. Electrical Engineering Sciences, University of Belgrade, Serbia, 1990
Title: *Device for detection of organophosphorus compounds in the atmosphere*

B.Sc. Electrical Engineering, University of Belgrade, Serbia, 1981

PROFESSIONAL POSITIONS

2025-present: Research scientist, Mohamed Bin Zayed University of Artificial Intelligence

2022-present: Professor emeritus, Union University – School of Computing

2022-present: Co-founder and Chief Operating Officer, Yottaanswers Inc., Wilmington, DE, USA

2019-2022: Representative in Conference of Universities of Serbia (CONUS)

2019-2022: Dean, Union University – School of Computing

2013-2015: Board member, Union University

2004-2022: Full professor, Union University – School of Computing

2003-2008: Dean, Union University – School of Computing

2001-2002: Trusted systems development team leader, Chrysalis-ITS, Ottawa, ON, Canada

2000-2001: Principal engineer, Quatrosense Environmental Limited, Richmond, ON, Canada

1999-2004: Associate professor, University of Belgrade, Faculty of Technology

1994-1999: Assistant professor, University of Belgrade, Faculty of Technology

1991-1994: Teaching assistant, University of Belgrade, Faculty of Technology

1986-1991: Senior researcher, Military Technical Institute

1983-1986: Associate researcher, Vinča Institute of Nuclear Sciences

INOVATIVE SOLUTIONS

- 2022 – today: Yottaanswers.com – an alternative for gargantuan LLMs, known for their immense cost and resource requirements: small, cheap, explainable, incrementally expandable, with innate knowledge comparable to Google. Does not use any external services.
- 2012-2013: Contribution to decentralized time-stamping algorithms. Can be considered a predecessor to blockchain technology.
- 2000-2001: Development of sensor networks and custom communication protocols for military (field detection of chemical warfare agents), industry (China Petroleum) and NASA (monitoring of toxic and combustible gases on launch pads). Can be considered predecessors to the Internet of Things.
- 1995-1996: Offshore outsourcing of software development, long before General Electric's first establishment of an offshore center in India.

RELEVANT BIBLIOGRAPHY

BOOKS:

- B-1. Milinković, S., Agapijev, B., *Smart Energy Building Blocks. Volume 2- Software support*, Lambert Academic Publishing, Saarbrücken, Germany, 2019, ISBN 978-613-9-47455-4.
- B-2. Milinković, S., *Concurrent and distributed systems*, CET Computer Equipment and Trade, Belgrade, 2019. ISBN 978-86-7991-412-5.
- B-3. Milinković S., *Smart Energy Building Blocks. Volume 1- System components*, Lambert Academic Publishing, Saarbrücken, Germany, 2018, ISBN 978-613-9-95161-1.
- B-4. Debeljković, D. Lj., M. B. Jovanović, S. A. Milinković, Lj. A. Jacić, *Diskretni deskriptivni sistemi*, Čigoja Press, Beograd, 2005, ISBN 86-7083-495-2.
- B-5. Debeljković, D. Lj., S. A. Milinković i M. B. Jovanović, *Kontinualni singularni sistemi*, Čigoja Press, Beograd, 2005, ISBN 86-7083-484-7.
- B-6. Debeljković, D., S. Milinković i S. Stojanović, *Stabilnost sistema sa kašnjenjem na konačnom i beskonačnom vremenskom intervalu*, Čigoja Press Beograd, 2004, ISBN 86-7558-212-9.
- B-7. Debeljković, D. Lj., S. A. Milinković, M. B. Jovanović, *Application of Singular System Theory in Chemical Engineering*, Manual of Process Engineering and Technology, Process Engineering Publisher, Prague, Czech Republic, 1996, ISBN 80-86059-11-1.
- B-8. Debeljković, D. Lj., S. A. Milinković i M. B. Jovanović, *Kontinualni singularni sistemi automatskog upravljanja*, Kultura, Beograd, 1996, ISBN 86-7108-012-6.

REFEREED JOURNAL PAPERS:

- J-1. Stanojevic, M., Zdravković, V., Milinković, S., Vranes, S., "Holistic representation and use of knowledge," *Elsevier SSRN*, 4406118 (2023).
- J-2. Xenos, A., Malod-Dognin, N., Milinković, S., Pržulj, N., "Linear functional organization of the omic embedding space", *Bioinformatics*, **37** (21) (2021) 3839–3847.
- J-3. Lazic, Lj. and S. Milinkovic, "Reducing Software Defects Removal Cost via Design of Experiments using Taguchi Approach", *Software Quality Journal*, **23** (2) (2015) 267–295.
- J-4. Debeljković, D. Lj., S. B. Stojanovic, N. S. Visnjic, S. A. Milinkovic, "A Quite New Approach to the Asymptotic Stability Theory: Discrete Descriptive Time Delayed System", *Dynamics of Continuous Discrete and Impulsive Systems, Series A* **15** (4) (2008) 469–480.
- J-5. Debeljković, D., S. Stojanović, S. Milinković, Lj. Jacić, S. Višnjić, M. Pješić, "Stability in the Sense of Lyapunov of Generalized State Space-Time Delayed System: A Geometric Approach", *International Journal of Information & System Science*, **4** (2) (2008) 278–300.
- J-6. Živković, I., M. Tomić, Lj. Brajović, S. Milinković, R. Aleksić, "Ballistic damage detection in thermoplastic composite laminates by means of embedded optical fibers", *Journal of Advanced Materials*, **39** (3) (2007) 41-49.
- J-7. Debeljković, D. Lj., S. B. Stojanović, M. B. Jovanović, S. A. Milinković, "Further Results on Descriptor Time Delayed System Stability Theory in the sense of Lyapunov: Pandolfi based Approach", *International Journal of Information & System Science*, **2** (1) (2006) 1–11.

- J-8. Debeljković, D. Lj., M. P. Lazarević, S. B. Stojanović, M. B. Jovanović, S. A. Milinković, "Discrete Time Delayed System Stability Theory in the Sense of Lyapunov: New Results", *Dynamics of Continuous, Discrete and Impulsive System, Series B: Applications*, (12b) (2005) 431–443.
- J-9. Debeljković, D. Lj., S. B. Stojanović, M. B. Jovanović, S. A. Milinković, "Descriptor time delayed system stability theory in the sense of Lyapunov: New results", *Facta Universitatis, Series: Mechanical engineering*, **1** (10) (2003), 1311–1315.
- J-10. Lazarević, M. P., D. Lj. Debeljković, Z. Lj. Nenadić, S. A. Milinković, "Finite Time Stability of Time Delay Systems", *IMA Journal of Mathematical Control and Information*, **17** (2000) 101–109.
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- J-12. Milinković, S. A., "Application of an ionization chamber as a gas sensor", *Nuclear Instruments and Methods in Physics Research – part A*, **408** (2-3) (1998) 562–572.
- J-13. Šarboh, S. D., S. A. Milinković and D. Lj. Debeljković, "Mathematical Model of the Glass Capillary Tube Drawing Process", *Glass Techn.*, **39** (2) (1998) 53–67.
- J-14. Đurović, K., D. Lj. Debeljković, S. A. Milinković, M. B. Jovanović, "Lyapunov Stability Robustness Consideration for Linear Singular Systems: New Results", *Advances in Modelling & Analysis, Series C*, **52** (1-2) (1998), 54–63.
- J-15. Milinković, S. A., "Determination of the glass fiber freezing point by time-delay estimation", *Control Engineering Practice*, **5** (7) (1997) 943–950.
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- J-19. Milinković, S., V. Ilić, D. Kesić, S. Nikolić, "Real-time Computer Simulator of Technological Processes", *Chemical Industry*, **50** (5) (1996) 198–203.
- J-20. Milinković, S., M. Jovanović, "Determination of the Glass Fiber Freezing Point Using the Cross-correlation Method", *Chemical Industry*, **50** (2) (1996) 49–54.
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- C-1. Milinković, A. and S. Milinković, "Continuous Speech Recognizer for Low-end Embedded Devices", *Proc. 4th Mediterranean Conference on Embedded Computing (MECO)*, Budva, Montenegro, June 14-18 (2015) 41–44.
- C-2. Milinković, A., S. Milinković, and Lj. Lazić, "A contribution to acceleration of graphlet counting", *Proc. XIV International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, March 18-20 (2015) 741–745.
- C-3. Milinković, A., Milinković, S., Lazić, Lj., "Choosing the right RTOS for IoT platform", *Proc. XIV International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, March 18-20 (2015) 504–509.
- C-4. Lazić, Lj., Milinković, S. Đokić, I., "Software Tools for High Software Quality Development", *Proc. XIV International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, March 18-20 (2015) 498–503.
- C-5. Milinković, A., Milinković, S., Lazić, Lj., "Some experiences in building IoT platform", *Proc. 22th Telecommunications Forum (TELFOR)*, Belgrade, Serbia, Nov. 25-27 (2014) 1138-1141.
- C-6. Milinković, A. and Milinković, S., "Interoperability of wireless sensor networks. Part two: Middleware, application gateways and unified API", *Proc. XII International SAUM Conference on Systems, Automatic Control and Measurements*, Niš, Serbia, Nov. 12-14 (2014) 101-104.
- C-7. Milinković, A. and Milinković, S., "Interoperability of wireless sensor networks. Part one: An overview of protocol standards and specifications", *Proc. XII International SAUM Conference on Systems, Automatic Control and Measurements*, Niš, Serbia, Nov. 12-14 (2014) 97-100.
- C-8. Milinkovic, S., "Pure Software-based Speech Recognition for OS-less Embedded Systems", *Proc. 3rd Mediterranean Conference on Embedded Computing (MECO)*, Budva, Montenegro, June 15-19 (2014) 40-43.
- C-9. Milinković, S., Lazic, Lj., "On Cyber Security of Industrial Measurement and Control Systems", *Proc. XIII International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 19-21 (2014) 903-908.
- C-10. Petrovic, M., Milinković, S., Lazic, Lj., "Software Tool for Chest X-ray Analysis", *Proc. XIII International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 19-21 (2014) 666-671.
- C-11. Lazic, Lj., Đokić, I., Milinković, S., "Challenges in Estimating Software Testing Effort", *Proc. XIII International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 19-21 (2014) 637-642.
- C-12. Milinkovic, A., Milinkovic, S., Lazic Lj., "FPGA Based Dataflow Accelerator for Large Matrix Multiplication", *12th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing (CSECS'13)*, Budapest, Hungary, December 10-12 (2013) 288-293.
- C-13. Lazic, Lj., Đokić, I., Milinković, S., "The software defects fixing problem optimization using Taguchi method", *International Conference Mathematical and Informational Technologies, MIT-2013*, Vrnjacka Banja, Serbia, September 5–8 (2013).
- C-14. Milinkovic, S., "Some applications of p-PRBS signals in frequency domain measurements", *Proc. Second Mediterranean Conference on Embedded Computing (MECO)* Budva, Montenegro, June 16-20 (2013) 204-207.
- C-15. Milinkovic, S., "Autoscaling Software JPEG Decoder for Embedded Systems", *Proc. Second Mediterranean Conference on Embedded Computing (MECO)* Budva, Montenegro, June 16-20 (2013) 101-104.
- C-16. Lazic, Lj., Đokić, I., Milinković, S, "Quantitative Model for Allocation of Resources Based on Success Rate of Software Projects using Design of Experiments", *The 7th European Computing Conference (ECC13)*, Dubrovnik, Croatia, June 25-27 (2013) 264-269.
- C-17. Milinkovic, S., Milojkovic, B, Spasic, D., Lazic, Lj.: "One Implementation of Time-stamping Authority", *The 7th European Computing Conference (ECC13)*, Dubrovnik, Croatia, June 25-27 (2013) 270-275.
- C-18. Spasić, D., Milinković, S., Milojković, B., Lazic, Lj., "Serbian Post as a Time-Stamping Authority", *Proc. XII International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 20-22 (2013) 685-688.

- C-19. Spasić, D., Milinković, S., Milojković, B., "On Practical Implementation of Time-Stamping Using Linking Scheme", *Proc. XII International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 20-22 (2013) 679-684.
- C-20. Lazic, Lj., Đokić, I., Milinković, S.: "Estimating Cost and Defect Removal Effectiveness in SDLC Testing activities", *Proc. XII International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 20-22 (2013) 572-577.
- C-21. Lazic, Lj., Milinkovic, S,: "Software Environment for Optimal Software Quality Development", *Proc. 20th Telecommunications Forum (TELFOR)*, Belgrade, Serbia, November 20-22 (2012), 1693-1696.
- C-22. Milinkovic, S., Lazic, Lj. "Industrial PLC security issues", *Proc. 20th Telecommunications Forum (TELFOR)*, Belgrade, Serbia, November 20-22 (2012), 1536-1539.
- C-23. Milinkovic, S., "Software JPEG decoder for embedded systems", *Proc. 20th Telecommunications Forum (TELFOR)*, Belgrade, Serbia, November 20-22 (2012), 1284- 1287.
- C-24. Milinkovic, S., Lazic, Lj., "Some Facts about Industrial Software Security", *Proc. XI International Conference on Systems, Automatic Control and Measurements (SAUM 2012)*, Nis, Serbia, November 14-16 (2012) 232-235.
- C-25. Milinkovic, S., Milojkovic, B, Spasic, D., Lazic, Lj., "Practical Issues in Temporal Authentication", *The 6th European Computing Conference (ECC '12)*, Prague, Chech Republic, September 24-26 (2012) 261-266.
- C-26. Lazić, Lj., Milinkovic, S., Ilic, S., "OptimalSQM: Optimal Software Quality Management Repository is a Software Testing Center of Excellence", *The 6th European Computing Conference (ECC '12)*, Prague, Chech Republic, September 24-26 (2012) 197-209.
- C-27. Milinkovic, S., Milojkovic, B, Spasic, D., Lazic, Lj., "Evaluation of Some Time-stamping Authority Software", *Proc. 6th International Conference on Methodologies, Technologies and Tools Enabling e-Government (MeTTeG 2012)*, Belgrade, Serbia, July 3-5 (2012) 89-99.
- C-28. Janković, R., Milinković, S., Lazić, Lj., "On Safety Critical and Embedded Systems Software Inception Phase Modelling", *Proc. 3rd DQM International Conference Life Cycle Engineering and Management (ICDQM-2012)*, Belgrade, Serbia, June 28-29 (2012) 394-399.
- C-29. Milinkovic, S., "An OM1 optical fiber as a mechanical sensor for high impact measurements", *Proc. Mediterranean Conference on Embedded Computing (MECO – 2012)* Bar, Montenegro, June 19-21 (2012) 50-53.
- C-30. Milinkovic, S. "Miniature sensor cell for gaseous and aerosol air pollutants", *Proc. Mediterranean Conference on Embedded Computing (MECO – 2012)* Bar, Montenegro, June 19-21 (2012) 46-49. Lazic, Lj., Milinkovic, S., Jankovic, R., "Rules And Benchmarking Based Optimal Software Quality Management Framework Architecture", *Proc. XI International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 21-23 (2012) 797-802.
- C-31. Milinkovic, S., Milojkovic, B, Spasic, D., "Some experience in establishing time-stamping authority system", *Proc. XI International Scientific – Professional Symposium - Infoteh*, Jahorina, Bosnia and Herzegovina, Mar. 21-23 (2012) 746-750.
- C-32. Milinkovic, S., Milojkovic, B, Spasic, D., "Some results of research in temporal authentication", *Proc. 2nd International Conference on Information Society Technology (ICIST2012)*, Kopaonik, Serbia, Feb. 29-Mar. 03 (2012) 147-152.
- C-33. Debeljković, Lj. D. S. B. Stojanović, N. S. Višnjić, S. A. Milinković, "Singular Time Delayed System Stability Theory in the sense of Lyapunov: A Quite New Approach", *Proc. American Control Conference 07*, July, 11 –13, New York City, New York, (USA) (2007), 4939–4944.
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- C-36. Debeljković, Lj. D. S. B. Stojanović, M. B. Jovanović, S. A. Milinković, "Further Results on Singular Time Delayed System Stability", *Proc. ACC 05*, June, 8–10, Portland (Oregon), (2005) 4271–4276.
- C-37. Debeljković, D. Lj., S. B. Stojanović, S. A. Milinković, M. B. Jovanović, "Singular Time Delayed System Stability Theory: Approach in the sense of Lyapunov", *Preprints of IFAC Workshop on Time delay systems*, Leuven, (Belgium), September 8 –10 (2004) CD – Rom.
- C-38. Debeljković, D. Lj., M. P. Lazarević, S. B. Stojanović, S. A. Milinković, M. B. Jovanović, "Discrete Time Delayed System Stability Theory in the sense of Lyapunov: New Results", *Proc. ISIC 2004*, Taipei (Taiwan), September 1 –4, (2004) 511–515.
- C-39. Debeljković, D. Lj., M. P. Lazarević, S. B. Stojanović, S. A. Milinković, M. B. Jovanović "Discrete Time Delayed System Stability Theory in the sense of Lyapunov: Application to the Chemical Engineering and Process Technology", *Proc. CHISA 2004*, Prague (Czech Republic), Avgust 28 –31, (2004) P5.3. poster.
- C-40. Debeljković, D. Lj., M. P. Lazarević, S. B. Stojanović, S. A. Milinković, M. B. Jovanović, "Discrete Time Delayed System Stability Theory in the sense of Lyapunov: New Results", *CDIC 2004*, Nanjing (China), August 18–20, (2004). CD - Rom.
- C-41. Debeljković, D. Lj., S. B. Stojanović, S. A. Milinković, M. B. Jovanović "Stability Theory in the sense of Lyapunov – Basic Approach: Discrete Singular Time Delayed System", *7th Biennial ASME Conference Eng Systems Design and Analysis*, Manchester, UK, July 19 – 22, (2004) CD.
- C-42. Debeljković, D. Lj., S. A. Milinković, Šarboh, S. D., Rančić, M. V., Mulić, V. S., "Mathematical Modeling and Identification of the Glass Capillary Tube Drawing Process", *Proc. 4th Asian Control Conference*, (Singapore) (25-27 September 2002) paper # REG1783, CD edition (WP3-5).
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- C-44. Milinković, S., "On SSL Accelerator Performance", *Proc. 10th Telecommunications Forum*, Belgrade, Serbia, November 26-28 (2002), 404–407.
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- C-46. Debeljković, D. Lj., M. P. Lazarević, Đ. Koruga, S. A. Milinković, M. B. Jovanović, "Further results on the stability of linear nonautonomous systems with delayed state defined over finite time interval", *Proc. APCCM (The 4th Asia - Pacific Conference on Control and Measurements)*, (July 9–12 2000), Guilin (China), D.9.
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- C-90. Debeljković, D. Lj., Đ. Koruga, S. A. Milinković, M. B. Jovanović, "Non–Lyapunov Stability Analysis of Linear Time–Delay Systems", *Proc. 5th IFAC Symposium on Dynamics and Control of Process Systems*, Corfu, Greece (June 1998) 549–553.
- C-91. Debeljković, D. Lj., Đ. Koruga, S. A. Milinković, M. B. Jovanović, Lj. A. Jacić, "Finite–Time Stability of Linear Discrete Descriptor Systems", *Proc. 9th Mediterranean Electrotechnical Conference*, Tel Aviv, Israel (May 1998) 504–508.

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BOARD MEMBERHIP:

- 2022-present: Board of directors, Yottaanswers, Inc.
- 2013-2015: Board member, Union University
- 2004-2014: Managing board member, Journal of Computer Science and Information Systems, ISSN:1820-0214
- 2004-2008: Board member of department for informatics, Serbian Chamber of Commerce
- 1995-2003: Board member of Union of Mechanical and Electrical Engineering and Technicians of Serbia

TEACHING

TAUGHT GRADUATE COURSES:

- 2014-2021: Numerical linear algebra
- 2014-2021: Linear and integer programming
- 2014-2021: Software modeling and specifications
- 2012-2018: Multiprocessor systems

TAUGHT UNDERGRADUATE COURSES:

- 2012-2022: Speech recognition
- 2008-2022: Real-time systems
- 2008-2022: Concurrent and distributed systems
- 2008-2022: Operating systems
- 2003-2007: Introduction to the www
- 1992-2000: Digital control systems
- 1992-2000: Process measurements and control

GOVERNMENT OR STATE AGENCY FUNDED PROJECTS:

Except for NASA, all projects were funded by Serbian Ministry of Education and Science.

- 2011-2019: III45003. Optoelectronic nanodimensional systems – the path to application
- 2011-2019: TR35026. Software environment for optimal software quality development
- 2002-2003: Tesla Project - Science with Accelerators and Accelerator Technologies. Subproject No. 1247-2.1 (Science with Accelerators). Task: Ion Implantation and Secondary Ion Emission.
- 2000–2001: Hyergolic Vapor Detection Sensors, part of #NAS 10-11999, NASA SSC, MS, USA.
- 1998–2000: S.1.03.07.0167. Development of intelligent measurement and control systems
- 1996–2000: 638/PP7. Development of smart sensors, automatic control of processes and systems, production control and integration of control systems in chemical technology
- 1995-1996: R.1.0063. Development of control systems for technological processes (specialized controllers, regulators, algorithms)
- 1994–1997: S.1.03.06.190. Development of intelligent measurement and control systems. Subproject: Sensor system for toxic vapors and gases.

- 1994–1996: TSI-35/94-2. Programmable automaton for control and management of the vulcanization process.
- 1991–1995: 0911. Kinetics, mechanism and optimal process parameters of organic and inorganic technology. Topic: Control and management of processes and systems.

INDUSTRY FUNDED PROJECTS:

- 2014: SpeakUp. Speech recognition module for embedded systems. Worldwide retail price US\$ 45.
- 2001: Landfill NDIR Testing System. User: Boeing Corporation.
- 2000: Non-Intrusive Calibration Transmitter. User: China Petroleum.
- 1999: Information system for regional codes update in USA/Canada. User: AT&T, Ameritech.
- 1998: Control and communication software of the gas analysis system. User: QEL (Canada).
- 1998: Software for recording, processing and archiving images from optical and ultrasound medical instruments. User: General Optical (South Africa).
- 1997: Communication and monitoring software for printing machines. User: Komori (Japan).

AFFILIATIONS

- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronics Engineers (IEEE)
- IEEE Computer Society
- IEEE Technical Committees: Real-Time Systems, Software Engineering, Test Technology
- IEEE Technical Councils: Software Process, Standards (SECS)
- New York Academy of Sciences in 2002
- Who is Who in Science and Engineering, in 2005-2006