

updated: 2021-06-02

**Publications, Presentations and Other Activities of Dr. Tuncer Ören on:
Synergies of Artificial Intelligence, Cybernetics, and Simulation**

See also Publications and Presentations of Dr. Tuncer Ören on:

- [Agent-Directed Simulation](#)
- [Cognitive and Emotive Simulations](#): Personality, Perception, Anticipation, Emotions
- [Quality assurance](#)
- [Understanding](#)

Some statistics:

(45 publications and 35 presentations in 30 cities in 13 countries: Austria, Canada, China, Czechoslovakia, Denmark, France, Germany, Holland, Hungary, Japan, Norway, Turkey, and USA)

		0	1	2	3	4	5	6	7	8	9	totals	
1970s	publications									2		2	
	presentations												
1980s	publications			1		1	2	11	10	3	8	36	
	presentations				1	2	3	2	2	4	4		18
1990s	publications			1		2	1	2				6	
	presentations	2	8				1	1	1	1	2		16
2000s	publications									1		1	
	presentations						1						1
											45	35	

1978

Ören, T.I. (ed.) (1978). Cybernetics & Modelling & Simulation of Large-Scale Systems. International Association for Cybernetics, Namur, Belgium, 191 p.

Ören, T.I. (1978). Rationale for Large Scale Systems Simulation Software based on Cybernetics and General Systems Theories. In: Cybernetics and Modelling and Simulation Large Scale Systems, T.I. Ören (ed.). International Association for Cybernetics, Namur, Belgium, pp. 151-179.

1982

Ören, T.I. (1982). Promising Synergies of Simulation Model Management, Software Engineering, Artificial Intelligence, and General System Theories. In: General Systems, Vol. 26, R.K. Ragade (ed.), pp. 203-209. Also published in: Proceedings of the 26th Annual Conference of the Society for General Systems Research, Vol. 1, pp. 197-204.

1983

- 1983 April 26-27, Rochester, Michigan, USA
Conference on Artificial Intelligence
Center for Robotics and Advanced Automation, Oakland University
In Cooperation with US Army Material Systems Analysis Activity Aberdeen P.G.
Invited Presentation: Synergy of Artificial Intelligence, Modelling and Simulation

1984

Ören, T.I. (1984). Directions for the Future of Modelling and Simulation: A Normative View. *International Journal of Systems Analysis, Modelling, Simulation*, 1:4, 293-306.

- 1984 June 12-15, Trondheim, Norway
Statoil

Invited 8 Seminars:

- Artificial Intelligence in Modelling, Simulation, and Simulation Software

- 1984 June 17-21, Copenhagen, Denmark
International Meeting of TIMS

Invited Presentation: Artificial Intelligence in Modelling, Simulation, and Simulation Software

1985

Ören, T.I., Aytac, K.Z. (1985). Architecture of MAGEST: A Knowledge-Based Modelling and Simulation System. In: *Simulation in Research and Development*, A. Javor (ed.), North-Holland, Amsterdam, pp. 99-109.

Ören, T.I. (1985). Intelligence in Simulation - Editorial. *ACM Simuletter*, 16:1, 2.

- 1985 April 24, Vienna, Austria
Austrian Cybernetics Society
Invited Lecture: The Many Facets of Simulation:
A Taxonomy of Traditional and Artificial Intelligence Aspects
- 1985 June 3, Laxenburg, Austria - IIASA
Seminar: The Many Facets of Simulation:
A Taxonomy of Traditional and Artificial Intelligence Aspects
- 1985 July 1-5, Papendal, Arnhem, The Netherlands
Working Conference: Knowledge-Based Modelling and Simulation Methodologies
Sponsors: SAHR, North Holland
Associate Director of the Conference
Co-editor of the Proceedings
Chairman of the Sessions:
 - Expert Systems Storage and Representation
 - Expert Systems and Organizational Models**Member of the Closing Panel on:**
 - Future Prospects for Artificial Intelligence in Simulation
- 1985 November 20-21, Tucson, Arizona
Workshop on Expert Systems and Simulation Models
Moderator of the Workshop
Presentation: Artificial Intelligence and Simulation: Dimensions to Explore

1986

Elzas, M.S., **Ören**, T.I., Zeigler, B.P. (eds.) (1986). *Modelling and Simulation Methodology in the Artificial Intelligence Era*. North-Holland, Amsterdam, 423 p.

Ören, T.I. (1986). Implications of Machine Learning in Simulation. In: *Modelling and Simulation Methodology in the Artificial Intelligence Era*, M.S. Elzas, T.I. Ören, B.P. Zeigler (eds.), North-Holland, Amsterdam, pp. 41-57.

Ören, T.I. (1986). Artificial Intelligence in Quality Assurance of Simulation Studies. In: *Modelling and Simulation Methodology in the Artificial Intelligence Era*, M.S. Elzas, T.I. Ören, B.P. Zeigler (eds.), North-Holland, Amsterdam, pp. 267-278.

- Aytaç K.Z., **Ören**, T.I. (1986). MAGEST: A Model-Based Advisor and Certifier for GEST Programs. In: Modelling and Simulation Methodology in the Artificial Intelligence Era, M.S. Elzas, T.I. Ören, B.P. Zeigler (eds.), North-Holland, Amsterdam, pp. 299-307.
- Ören**, T.I. (1986). Knowledge Bases for an Advanced Simulation Environment. In: Intelligent Simulation Environments, P.A. Luker, H.H. Adelsberger (eds.), Proceedings of SCS Conference on Intelligent Simulation Environments, San Diego, CA, 1986 Jan. 23-25, pp. 16-22. (Reprinted in: Proc. of the 2nd National (Turkey) Symposium on Computer-Aided Design, B. Kuryel (ed.), Univ. of Ege, Bornova, Izmir, Turkey, pp. 17-23.
- Ören**, T.I. (1986). Artificial Intelligence and Simulation. In: Artificial Intelligence Applied to Simulation, E.J.H. Kerckhoffs, G.C. Vansteenkiste, B.P. Zeigler (eds.), (Proceedings of a Conference held in Ghent, Belgium, 1985 Feb. 25-27) SCS, San Diego, CA, pp. 3-8. (Chinese translation appeared in: Artificial Intelligence and Simulation, G. Xiong, B-H. Li, Z-Z. Wan (eds.). (Special issue of Computer Engineering and Design, 1987, Aug., pp. 1-7).
- Ören**, T.I. (1986). Software Requirements of Knowledge Bases of an Advanced Simulation Environment. In: Proceedings of JSSST (Japan Society for Simulation Technology) Conference on Recent Advances in Simulation of Complex Systems, Tokyo, Japan, July 15-17, 1986, pp. 35-38.
- Ören**, T.I., Zeigler, B.P. (1986). From Stone Tools to Cognizant Tools: The Quest Continues. In: Proceedings of 2nd European Simulation Congress, Antwerp, Belgium, September 9-12, 1986, G.C. Vansteenkiste, E.J.H. Kerckhoffs, L. Dekker, J.C. Zuidervaart (eds.), SCS, San Diego, CA, pp. 801-807.
- Ören**, T.I. (1986). Quality Assurance in Cognizant Simulative Design. Proceedings of 1986 Winter Simulation Conference, Washington, D.C., 1986, Dec. 8-10, pp. 850-852. ([ACM Portal](#))
- Zeigler, B.P., **Ören**, T.I. (1986). Multifaceted, Multiparadigm Modelling Perspectives: Tools for the 90's. In: Proceedings of 1986 Winter Simulation Conference, Washington, D.C., 1986 Dec. 8-10, pp. 708-712. ([ACM Portal](#))
- Ören**, T.I. (1986). Traditional and Cognizant Simulation and Other Model-Based Activities: An Integrative View. Technical Report TR-86-19, Computer Science Department, University of Ottawa, Ottawa, Ontario, Canada.
- 1986 July 15-17, Tokyo, Japan
Conference on Recent Advances in Simulation of Complex Systems
Chairman of the Session: Artificial Intelligence
Member of the Panel Session on Artificial Intelligence
 - 1986 August 11, Philadelphia, Pennsylvania
Workshop on AI and Simulation, in conjunction with AAAI-86
(5th National Conference on Artificial Intelligence)
Discussant in the Panel on:
- Artificial Intelligence and Simulation - The State-of-the-Art and Future Directions
- 1987**
- Ören**, T.I., Zeigler, B.P. (1987). Artificial Intelligence in Modelling and Simulation: Directions to Explore. Simulation, 48:4 (April), 131-134.
- Ören**, T.I. (1987). Artificial Intelligence and Simulation: From Cognitive Simulation Toward Cognizant Simulation. Simulation 48:4 (April), 129-130.
- Ören**, T.I. (1987). Quality Assurance Paradigms for Artificial Intelligence in Modelling and Simulation. Simulation, 48:4 (April), 149-151.

Ören, T.I. (1987). Artificial Intelligence in Simulation (Plenary Paper). In: Proceedings of Measurement, Modelling, and Evaluation of Computer Systems, Erlangen, W. Germany, September 29 - October 1, 1987, pp. 375-388.

Ören, T.I. (1987). Cognizant Simulation Systems. In: Knowledge-Based Simulation and Modelling: AI and Simulation, B.P. Zeigler (ed.). Lecture Notes of the Professional Development Seminar, The University of Arizona, Tucson, Arizona, January 19-20, 1987.

Ören, T.I. (1987). Artificial Intelligence and Quality Assurance Methodology. In: Knowledge-Based Simulation and Modelling: AI and Simulation, B.P. Zeigler (ed.). Lecture Notes of the Professional Development Seminar, The University of Arizona, Tucson, Arizona, January 19-20, 1987.

Zeigler, B.P. Ören, T.I. (eds.) (1987). Intelligent Environments and Goal-Directed Models. Preprints of the 4th International Symposium on Modelling and Simulation Methodology, Tucson, Arizona, January 21-23, 1987, Special Professional Education, The University of Arizona, Tucson, Arizona.

Ören, T.I. (1987). Bases for Advanced Simulation: Paradigms for the Future. In: B.P. Zeigler, T.I. Ören, Intelligent Environments and Goal-Directed Models. Preprints of the 4th International Symposium on Modelling and Simulation Methodology, Tucson, Arizona, January 21-23, 1987, Special Professional Education, The University of Arizona, Tucson, Arizona.

Ören, T.I. (1987). Metamodels for Cognizant Simulative Design Systems. In: Proceedings of the 31st Annual Meeting of the International Society for General Systems Research, Budapest, Hungary, 1987 June 1-5, pp. 874-879.

Ören, T.I. (1987). Traditional and Cognizant Simulation and other Model-Based Activities: An Integrative View. In: Preprints of the 1st International Conference on Statistical Computing, Dudewicz, E. et al. (eds.), Univ. of Ege, Bornova, Izmir, Turkey, pp. 395-422.

- 1987 July 27-30, Montreal, PQ, Canada
Summer Computer Simulation Conference - Sponsor: SCS
Member of the Panel on: New Directions in Simulation and Artificial Intelligence
- 1987 September 28 - October 1, Erlangen, W. Germany
4th GI/NTG Conf. on Measurement Modelling and Evaluation of Computer Systems
Organized by the Joint Special Interest Group of:
- Committee 3 of GI (Gesellschaft für Informatik)
- Committee 4 of NTG (Nachrichtentechnische Gesellschaft)
Invited Paper: Artificial Intelligence in Simulation

1888

Ören, T.I., Tam, J. (1988). An Expert Modelling and Simulation System on Sun Workstation. In: R.C. Huntsinger et al. (eds.), Simulation Environments and Symbol and Number Processing on Multi and Array Processors, SCS International, San Diego, CA, pp. 255-260.

Ören, T.I., Sheng, G. (1988). Semantic Rules and Facts for an Expert Modelling and Simulation System, In: Proceedings of the 12th IMACS World Congress, Paris, France, July 18-22, 1988, Vol. 2, 596-598.

Ören, T.I. (1988). Bases for Advanced Simulation: Paradigms for the Future. Technical Report TR-88-26, Computer Science Department, University of Ottawa, Ottawa, Ontario. (Preprint 1989-02).

- 1988 June 6-10, Nice, France
European Simulation Multiconference, Sponsor: SCS
Paper (with J. Tam): An Expert Modelling and Simulation System on Sun Workstation
- 1988 June 29 – July 21 Beijing and Xian, China
Invited Lecture Tour under the joint sponsorships of:
- The Beijing Institute of Aeronautics and Astronautics and
- The Beijing Institute for Computer Applications and Simulation Technology

Invited Lectures:

- Artificial Intelligence in Modelling and Simulation

- 1988 July 18-22, Paris, France
12th IMACS World Congress
Paper (with Grant Sheng): Semantic Rules and Facts for an Expert Modelling and Simulation
- 1988 July 25-27, Seattle, Washington
Summer Computer Simulation Conference, Sponsor: SCS
Invited Presentation (Plenary Session): Quality Assurance in the Artificial Intelligence Era
(Reviewed in Simulation 51:5 (Nov.), 207).

1989

- Elzas, M.S., **Ören**, T.I., Zeigler, B.P. (eds.) (1989). Modelling and Simulation Methodology: Knowledge Systems' Paradigms, North-Holland, Amsterdam, 487 p.
- Ören**, T.I. (1989). Bases for Advanced Simulation: Paradigms for the Future (Keynote Paper). In: Modelling and Simulation Methodology: Knowledge Systems' Paradigms, M.S. Elzas, T.I. Ören, B.P. Zeigler (eds.), North-Holland, Amsterdam, pp. 29-43.
- Ören**, T.I. (1989). Quality Assurance, Artificial Intelligence, and Computer-Aided Systems Theory. In: Eurocast '89, International Workshop on Computer Aided Systems Theory, Las Palmas, Grand Canaria, Canary Islands (Spain), Feb. 26-March 3, 1989, pp. 336-344.
- Ören**, T.I. (1989). Dynamic Templates and Semantic Rules for Simulation Advisors and Certifiers. Technical Report TR-89-10, Computer Science Department, University of Ottawa, Ottawa, Ontario. (Preprint of 1991-01).
- Ören**, T.I., Wendt, N.R. (1989). Knowledge Base of SunS: Slam II Understanding System. Technical Report (Prepared for Bell Canada). Computer Science Department, University of Ottawa, Ottawa, Ontario.
- Ören**, T.I., King, D.G., Birta, L.G., Wendt, R.N., Asikhan, N. (1989). E/Slam: A Program Elucidation System for Slam II on a Sun Workstation. Technical Report TR-89-53 (Prepared for Bell Canada). Computer Science Department, University of Ottawa, Ottawa, Ontario.
- Wendt, R.N., **Ören**, T.I., Birta, L.G. (1989). Knowledge Base for Slam II Understanding System, Volume 1 - Templates. Technical Report TR-89-54 (Prepared for Bell Canada). Computer Science Department, University of Ottawa, Ottawa, Ontario.
- Rozenblit, J.W., Fishwick, P.A., Modjeski, R.B., Zeigler, B.P., Nielsen, N.R., **Ören**, T.I. (eds.) (1989). Proceedings of the Fourth Artificial Intelligence and Simulation Workshop. IJCAI - 89 Conference, August 21, 1989, Detroit, Michigan. American Association for Artificial Intelligence, Menlo Park, CA.
- 1989 June 21, Prague, Czechoslovakia
Charles University, Computer Science Department
Invited Seminars on:
 - Artificial Intelligence in Modelling and Simulation
 - Simulation Quality Assurance in the Artificial Intelligence Era
 - 1989 July 3, Bornova, Izmir, Turkey
Ege University, Department of Computer Engineering
Invited Seminar: Yazılımda Yapay Zekâ (In Turkish - Artificial Intelligence in Software Engineering)
 - 1989 August 21, Detroit, Michigan
Fourth Artificial Intelligence and Simulation Workshop
Within IJCAI-11: The 11th International Joint Conference on Artificial Intelligence
Member of the Panel of the Workshop

- 1989 December 4-6, Washington, D.C.
Winter Simulation Conference
Sponsors: ASA, ACM SIGSIM, IEEE SMCS, IEEE CS, IIE, NIST, ORSA, TIMS CS, SCS
Chairman of the Session on: Combined Techniques of Artificial Intelligence in Systems Analysis

1990

- 1990 January 17-19, San Diego, CA
Simulation and Artificial Intelligence (Western Simulation Multiconference) (Sponsor: SCS)
Member of the Panel on: CASE Tools to Support Modelling and Simulation
- 1990 Nov. 7, Ankara, Turkey
"Information Age" Seminar (Under the auspices of the Turkish Ministry of Culture) TC Milli Eğitim Bakanlığı
Invited Seminar: Yazılımda Yapay Zekâ (In Turkish - Artificial Intelligence in Software)

1991

- 1991 April 1-5, New Orleans, Louisiana
Artificial Intelligence and Simulation Conference, The Society for Computer Simulation
Invited Tutorial: Quality Assurance of Expert Systems and Knowledge-based Systems
- 1991 June 3 - June 14, Istanbul, Turkey
Technical University of Istanbul (ITU)
Under the auspices of the United Nations TOKTEN Program
Invited six Seminars (in Turkish) on
 - Artificial Intelligence in Software Engineering
 - Machine Learning
 - Program Understanding Systems and Automatic Documentation of Programs in Natural Language
 - Object-Oriented Design and Programming:
A Methodology and a Computer-Aided Software Engineering Environment
 - Quality Assurance in Simulation and Expert Systems
 - Artificial Intelligence in Software Engineering Education
- 1991 December 2-4, Istanbul, Turkey
Symposium: Computer Applications in Industry and Automation II
Istanbul Technical University (ITU)
Under the auspices of the Turkish Ministry of Industry and Trade
Invited Presentations: - Artificial Intelligence and its Applications in Industry (In Turkish)

1992

Ören, T.I. (1992). Artificial Intelligence and Simulation. Technical Report TR-92-45. Computer Science Department, University of Ottawa, Ottawa, Ontario.

1994

Kaylan, A.R., Lehmann, A., **Ören, T.I.** (eds.) (1994). Proc. of the European Simulation Symposium, Oct. 9-12, 1994, Istanbul, Turkey. Society for Computer Simulation International, San Diego, CA. Vol. 1: Advances in Simulation Methodology and Practices, Artificial Intelligence in Simulation, 359 p.

Ören, T.I. (1994). Artificial Intelligence and Simulation. Annals of Operations Research, vol. 53. pp. 287-319.

1995

Ören, T.I. (1995 - Invited Opening Speech). Artificial Intelligence and Simulation: A Typology. In: Proceedings of the 3rd Conference on Computer Simulation, S. Raczynski (ed.), Mexico City, Nov. 15-17, pp. 1-5.

- 1995 July 24-26, Ottawa, Ontario
Summer Computer Simulation Conference,
Sponsor: The Society for Computer Simulation International (SCSI)
Organizer and Moderator of the Panel on: Synergy of Artificial Intelligence and Simulation: Recent Advances and Promising Research Areas

1996

Ören, T.I. et al. (ed.) (1996). Synergy of Artificial Intelligence and Simulation: Recent Advances and Promising Research Areas. In: Proceedings of 1996 Summer Computer Simulation Conf., Portland, Oregon, July 21-25, SCS, San Diego, CA., pp. 596-601.

Ören, T.I. (1996). Towards Simulative and Intelligent Problem Solving Environments (Position Statement at a Panel on: Synergy of Artificial Intelligence and Simulation). In: Proceedings of 1996 Summer Computer Simulation Conf., Portland, Oregon, July 21-25, SCS, San Diego, CA., p. 596.

- 1996 June 3-6, Budapest, Hungary
Simulation Methodology and Artificial Intelligence Conference
(as part of the SCS European Multiconference)
Member of the International Program Committee

1997

- 1997 June 5-6, Rouen, France
MOSIM'97: Systemes de productions et de logistique
(Premiere conference francophone de modelisation et de simulation)
Sponsors: AFCET, FRANCOSIM, SCS
Invited Plenary Presentation: Intelligence artificielle et simulation

1998

- 1998 November 9, Görükle, Bursa, Turkey
Uludag University, Faculty of Education, Dept. of Computer and Education Technologies
Invited Seminar:
- Simulation and Artificial Intelligence (In Turkish)

1999

- 1999 July 4-9, Schloss Dagstuhl, Germany
Agent-Oriented Approaches in Distributed Modelling and Simulation: Challenges and Methodologies
<http://www.dagstuhl.de/DATA/Participants/99271.html>
Invited Presentation: Simulation, Artificial Intelligence and Agents: A Taxonomy
- 1999 December 14, Gebze, Kocaeli, Turkey
GYTE (Gebze Technology Institute)
Invited Seminar: Artificial Intelligence Applications in Software Engineering: Software Agents
(In Turkish: Yazılım Mühendisliğinde Yapay Zekâ Uygulamaları: Yazılım Etmenleri)

2005

- 2005 November 28 - December 1, Orlando, Florida
I/ITSEC - Interservice/Industry Training, Simulation Conference

Member of the Panel on: Artificial Intelligence, Intelligent Agents and Game Technology
([Position Statement](#))

2008

Yilmaz, L., T.I. **Ören** and P. Thavikulwat (eds.) (2008). Intelligent Agents, Artificial Intelligence, and Simulation Gaming. Special Issue of the Journal: [Simulation & Gaming](#). ([Call for Papers](#)). Preface.