

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

updated: 2008-01-12

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

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

**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 JSST (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 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

## 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  
- Quality Assurance in Simulation and Expert Systems
- **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 Seminars:** - Modelling and Simulation: A Contemporary Approach (In Turkish)  
- 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

## 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-Forthcoming). Intelligent Agents, Artificial Intelligence, and Simulation Gaming. Special Issue of the Journal: [Simulation & Gaming](#). ([Call for Papers](#)). Preface.