

**Publications, Presentations and Other Activities of Dr. Tuncer Ören on  
Modeling and Simulation:  
Normative Views for Advancement and Advanced Methodologies**

updated: 2011-08-25

Also see:

- [Agent-Directed Simulation](#)
- [AI and Simulation](#)
- [Cognitive and Emotive Simulations](#): (Personality, Perception, Anticipation, Emotions)
- [Ethics](#) in simulation and
- [Understanding](#) in simulation

	1970s	1980s	1990s	2000s	2010s	total
Publications	14	28	16	51	5	114
Presentations & other activities	8	28	13	13	2	64
total	22	56	29	63	5	178

**1973**

Ören, T.I. (1973). Application of System Theoretic Concepts to the Simulation of Large Scale Adaptive Systems. Proceedings of the Sixth Hawaii International Conference on System Sciences, Honolulu, Hawaii, January 9-11.

**1974**

Ören, T.I. (1974). Deductive General Systems Theories and Simulation of Large Scale Systems. Proceedings Summer Computer Simulation Conference, Houston, Texas, July 9-11, pp. 13-16.

**1975**

Ören, T.I. (1975). Simulation of Time-Varying Systems. In Advances in Cybernetics and Systems, J. Rose (ed.). Gordon & Breach Science Publishers, England, pp. 1229-1238.

Ören, T.I. (1975). Syntactic Errors of the Original Formal Definition of CSSL 1967. Technical Report 75-01, Computer Science Department, University of Ottawa, Ottawa, Ontario, 57 p. (Also available from IEEE Computer Society Repository, No. R75-78).

Ören, T.I. (1975). General System Theories & Simulation of Large Scale Systems. Proceedings of the Computer Science Conference, Washington, DC, February 18-20, (Abstract).

Ören, T.I. (1975). Les théories des systèmes généraux et la simulation des systèmes à grande échelle. Proceedings of the 43rd Congress of ACFAS, Moncton, New Brunswick, May 7-9, (Abstract).

**1976**

1976 September 6-11, Namur, Belgium

8th International Congress on Cybernetics of the International Association for Cybernetics  
Organizer and Program Chairman of the Symposium on the Application of  
Cybernetics and General System Theoretic Concepts to the Simulation of Large Scale Systems

**1977**

Ören, T.I. (1977). Simulation - as it has been, is and should be. Simulation, 29:5, 182-183.

Ören, T.I. (1977). Concepts for Advanced Computer Assisted Models. ACM Simuletter, 9:1 (Fall-Winter), 8-9.

## 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). A Personal View on the Future of Simulation Languages (Keynote Paper). Proceedings of the 1978 UKSC Conference on Computer Simulation, IPC Science and Technology Press, Chester, England, April 4-6, 1978, pp. 294-306.

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.

Ören, T.I. (1978). Epilogue. In: Cybernetics and Modelling and Simulation of Large Scale Systems, T.I. Ören (ed.) International Association for Cybernetics, Namur, Belgium, pp. 181-189.

1978 February 21, Paris, France

ENSTA (Ecole Normale Supérieure des Techniques Avancées)

Invited Lecture for Association SYSTEMA:

Concepts for Advanced Simulation Methodologies

1978 May 8, Bonn, West Germany

IPES (Institute for Planning and Decision Systems) of the Gesellschaft für Mathematic und Datenverarbeitung GmbH

Invited Lecture: Concepts for Advanced Simulation Languages

1978 May 19, Delft, The Netherlands

Department of Mathematics, Technical University of Delft,

Invited Lecture: The Future of Simulation Languages

1978 May 25, Delft, The Netherlands

Invited Lecture for Dutch Simulation Association:

Concepts for Advanced Simulation Methodologies

1978 August 13-18, Rehovot, Israel

Symposium on Modelling and Simulation Methodology

Sponsors: USA/ERO, IMACS, SCS, IFIP, WG, MAS, SGSR, WIS

Co-organizer of the Symposium and Keynote Speaker

Member of the panel on "Methodology of the Future"

## 1979

Ören, T.I. (1979). Concepts for Advanced Computer-Assisted Modelling. In: Methodology in Systems Modelling and Simulation, B.P. Zeigler et al. (eds.). North-Holland, pp. 29-55. (Opening Paper in the Symposium on Modelling and Simulation Methodology, Rehovot, Israel, 1978 August 13-18).

Ören, T.I., Zeigler, B.P. (1979). Concepts for Advanced Simulation Methodologies. Simulation, 32:3, 69-82.

1979 June 5, New York, New York, USA

the 1979 National Computer Conference Organizer and Session Leader of the Panel on:

"Simulation Languages: State-of-the-Art and New Vistas"

1979 September 20-21, Sorrento, Italy

Sorrento Workshop for the International Standardization of Simulation Languages

Sponsors: USA/ERO, IMACS, SCS, SAHR, IAC  
Organizer and Program Chairman

## 1980

Ören, T.I. (1980). Computer-Aided Modelling Systems. Technical Report TR-80-10, Computer Science Department, University of Ottawa, Ottawa, Ontario.

1980 June 25-27, Interlaken, Switzerland  
International Symposium on Simulation - SIMULATION '80  
Keynote paper: Computer-Aided Modelling Systems  
Chairman of the "Modelling Methodology" Session

1980 September 1-5, Berlin, E. Germany  
International Symposium on Systems Analysis and Simulation  
Invited Paper: New Directions in System Simulation: Methodology and Software

## 1981

Ören, T.I. (1981). New Directions in System Simulation: Methodology and Software. Technical Report TR-81-09, Computer Science Department, University of Ottawa, Ottawa, Ontario.

1981 December 8-10, Atlanta, Georgia  
Winter Simulation Conference  
Editor-in-Chief of the Conference Proceedings  
Organizer and Chairman of a panel session on "General System Theories"  
Theme: What Enhancements Could General System Theories Bring Into System Design, Modelling & Simulation & When?

## 1982

Ören, T.I. (1982). Computer-Aided Modelling Systems. (Keynote Paper) In: Progress in Modelling and Simulation, F.E. Cellier (ed.). Academic Press, London, England, pp. 189-203.

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.

1982 January 5-9, Washington, D.C.  
International Conference on Systems Methodology and 26th Annual Meeting of the Society for General System Research  
Paper: Promising Synergies of Simulation Model Management, Software Engineering, Artificial Intelligence and General System Theories

1982 May 4-5, Newark, NJ  
Conference on Computer Simulation: A Research Focus  
Sponsors: ORSA, SICSIM of the NY Chapter of ACM, and the Business Research Center of Rutgers University  
Keynote Speech: State of Simulation Research and the Role of SIGSIM

1982 July 26-August 6, Ottawa, Ontario, Canada  
NATO Advanced Study Institute on Simulation and Model-based Methodologies: An Integrative View. Director of the Institute  
Editor (with B.P. Zeigler, M.S. Elzas) of the Proceedings  
Papers: - Model-Based Activities: A Paradigm Shift

- 1982 August 8-13, Montréal, Québec, Canada  
 10th World Congress of IMACS  
 Organizer of a Session on Advanced Concepts in Modelling and Simulation I
- 1982 August 30-September 10, Ankara, Turkey  
 Computer Engineering Department, Middle East Technical University,  
 Invited under the Aegis of the United Nations to give six invited lectures:  
 - Concepts for Advanced Computer-Assisted Modelling  
 - Desirable Research Directions in Simulation Methodology and Software
- 1982 November 4, Binghamton, NY, USA  
 Department of System Science, School of Advanced Studies, State Univ. of New York,  
 Binghamton  
 Invited lecture: Desirable Research Directions in Simulation Methodology and Software
- 1982 November 5, Syracuse, NY, USA  
 Dept. of Industrial Engineering and Operation Research, Syracuse University  
 Invited Lecture: Directions for the Future of Computer-Aided Modelling and Simulation

### 1983

- Ören, T.I. (1983). Quality Assurance of System Design and Model Management for Complex Problems.  
 In: Adequate Modelling of Systems, H. Wedde (ed.). Springer-Verlag, Heidelberg, W. Germany,  
 pp. 205-219.
- 1983 March 14, Tampa, Florida, USA  
 ACM SIGSIM Workshop:  
 Simulation and Model-Based Methodologies: A Contemporary View  
 Invited Papers: - Model Management for Complex System
- 1983 April 11, Newark, Delaware, USA  
 Department of Computer & Information Sciences, University of Delaware  
 Invited Lecture: Directions for the Future of Computer-Aided Modelling and Simulation
- 1983 April 12, Binghamton, NY, USA  
 Department of Systems Science, School of Advanced Studies, State University of New York,  
 Binghamton  
 Invited Lecture: Directions for the Future of Computer-Aided Modelling and Simulation
- 1983 June 20, Laxenburg, Austria - IIASA  
 Seminar: Computer Assistance to Enhance Model Reliability in Coupling Large Number of  
 Component Models in Gest
- 1983 July 28, Istanbul, Turkey  
 Department of Computer Science, Bosphorous University  
 Invited Lecture: Desirable Research Directions in Modelling and Simulation
- 1983 December 12-14, Arlington, Virginia  
 Winter Simulation Conference  
 Member of the Panel Session on:  
 Simulation Methodology - Lessons of the Past and Prospects for the Future

### 1984

- Ören, T.I., Zeigler, B.P., Elzas, M.S. (eds.) (1984). Simulation and Model-Based Methodologies: An  
 Integrative View. Springer-Verlag, Berlin, Heidelberg, New York, Tokyo, 651 p.

- Ören, T.I. (1984). Model-Based Activities: A Paradigm Shift. In: Simulation and Model-Based Methodologies: An Integrative View, T.I. Ören, B.P. Zeigler, M.S. Elzas (eds.). Springer-Verlag, Heidelberg, Germany, pp. 3-40.
- Ören, T.I. (1984). New Directions in Systems Simulation: Methodology and Software. International Journal of Systems Analysis, Modelling, Simulation, 1:1, 63-70.
- 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.
- Ören, T.I. (1984). Symbolic Processing of Simulation Models: A Taxonomy. Technical Report TR-84-01, Computer Science Department, University of Ottawa, Ottawa, Ontario.

1984 April 5, Claremont, California  
 Claremont Graduate School,  
 Invited Lecture: Future Directions for Model-Based Information Systems

1984 June 12-15, Trondheim, Norway  
 Statoil, 8 Invited Seminars:  
 - Concepts for Advanced Computer-Assisted Modelling  
 - Directions for the Future of Computer-Assisted Modelling and Simulation

## 1985

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 3 Sessions: - Advanced Tools  
 Papers:  
 - A Taxonomy of Knowledge and Learning in Simulation  
 Member of the Closing Panel on:  
 - Future Prospects for Artificial Intelligence in Simulation

1985 November 18-19, Tucson, Arizona  
 Seminar in Expert Systems and Simulation Models; Sponsors: NASA, UA CE  
 Presentation: Modular and Hierarchical Model Specification: A Basis for Knowledge-Based Modelling and Simulation  
 Chairman of the Panel Session on: Methodological Issues

## 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). 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). 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.

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](#))

1986 January 23-25, San Diego, California  
SCS Conference on Intelligent Simulation Environments  
Paper: Knowledge Bases for an Advanced Simulation Environment  
Chairman of the Panel Session on: Complex Models

1986 February 26, March 6, Tucson, Arizona  
University of Arizona, Department of Electrical and Computer Engineering  
2 Invited Seminars:  
- Knowledge Bases for an Advanced Simulation Environment

1986 April 28-30, Izmir, Turkey  
Second National Computer-Aided Design Symposium  
University of Ege, Faculty of Engineering  
Invited Presentation: İleri Benzetim Ortamlarında Bilgi Tabanları  
(in Turkish - Knowledge Bases for an Advanced Simulation Environment)

1986 July 15-17, Tokyo, Japan  
Conference on Recent Advances in Simulation of Complex Systems  
Sponsors: JSST, SCS, IMACS, IACM  
Papers:  
- Software Requirements of Knowledge Bases of an Advanced Simulation Environment

1986 September 9-12, Antwerp, Belgium  
2nd European Simulation Conference, Sponsored by SCS  
Organized by Dutch Benelux Simulation Society  
In Cooperation with: ASIM, ICS, SIMS, UKSC, IMACS, JSST  
Article (with B.P. Zeigler) From Stone Tools to Cognizant Tools: The Quest Continues  
Chairman of the Panel Session on: Advanced Simulation Challenges

## 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.

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.

1987 January 21-23, Tucson, Arizona

4th International Symposium on Modelling and Simulation Methodology:

Intelligent Environments and Goal-Directed Models

Sponsors: AAAI, AFCEA, IEEE CS, SCS, UA CE

Co-director of the Symposium

Invited Paper (Opening Plenary Session):

Bases for Advanced Simulation: Paradigms for the Future

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 October 2, Darmstadt, W. Germany

University of Darmstadt, Department of Mathematics

Invited Seminar: General System Theoretic Foundations of an Expert Modelling and Simulation System

## 1988

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

## 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). Dynamic Templates and Semantic Rules for Simulation Advisors and Certifiers. Technical Report TR-89-10, Computer Science Department, University of Ottawa, Ottawa, Ontario.

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.

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.

## 1990

Webster, W., Arnovick, G., Hammond, R., Ören, T.I., Pagdett, M.L., Sarchet, M. (1990). Integrated Computer Aided Software Engineering (CASE) Environments for Simulation (Panel Discussion). In: AI and Simulation: Theory and Applications, W. Webster and R. Uttamsingh (eds.), Simulation Series 22:3 (April). SCSC, San Diego,6CA.

## 1991

Ören, T.I. (1991). Dynamic Templates and Semantic Rules for Simulation Advisors and Certifiers. In: Knowledge-Based Simulation: Methodology and Application, P.A. Fishwick and R.B. Modjeski (Eds). Springer-Verlag, Berlin, Heidelberg, New York, Tokyo, 53-76.

1991 July 22-26, Dublin, Ireland

13th IMACS World Congress on Computation and Applied Mathematics

Co-sponsored by: IFAC, IFIP, IFORS, IMECO

Paper (with D.G. King and M. Hitz):

- Automatic Generation of Natural Language Documentation for Slam II Programs

## 1992

Kaylan, A.R., Ören, T.I. (eds.) (1992). Advances in Simulation '92. Proc. of the Symposium: Advances in Simulation '92, July 6-7, 1992, Istanbul, Turkey, Bogaziçi University, Istanbul, Turkey, 272 p.

Kaylan, A.R., Ören, T.I. (eds.) (1992). Advances in Simulation '92 (In Turkish: Benzetimde Ilerlemeler '92). Proc. of the Articles written in Turkish for the Symposium: Advances in Simulation '92, July 6-7, 1992, Istanbul, Turkey, Bogaziçi University, Istanbul, Turkey, 150 p.

Ören, T.I. (1992). Advances in Knowledge-Based Simulation Systems. In: Proceedings of the Symposium on Advances in Simulation '92., A.R. Kaylan, T.I. Ören (eds). July 6-7, 1992, Istanbul, Turkey. Bogaziçi University, Department of Industrial Engineering, Istanbul, Turkey, pp. 17-24.

Ören, T.I. (1992) (Plenary article). Simulation Environments: Challenges for Advancement. In: Proceedings of the 2nd International Conference on System Simulation and Scientific Computing, Oct. 20-23, 1992, Beijing, China, pp. 8-12.

Ören, T.I. (1992). Simulation Environments: Challenges for Advancement. Technical Report TR-92-33. Computer Science Department, University of Ottawa, Ottawa, Ontario.

1992 January 28, Ottawa, ON, Canada

National Research Council Canada - Institute for Information Technology

Invited Presentation:

- Knowledge-Based Simulation Environments: State-of-the Art and Challenges for the Future

1992 March 11, Vienna, Austria

University of Vienna

Invited Seminar: Advances in Knowledge-Based Simulation Environments

1992 March 13, Linz, Austria

Johannes Kepler University

Invited Seminar: The Role of System Theories in Knowledge-Based Simulation Environments

1992 July 6-7, Istanbul, Turkey

Bogaziçi University

Symposium: Advances in Simulation 1992, Symposium Chair

Co-Editor of the Proceedings

Paper: Advances in Knowledge-Based Simulation Environments



1992 October 20-23, Beijing, China

[2nd Beijing Conference on System Simulation and Scientific Computing](#)

Chinese Association for System Simulation (CASS), Co-sponsors: EUROSIM, IMACS, JSST, SCS  
Member of the International Program Committee

Invited Paper (Opening Keynote Session):

Simulation Environments: Challenges for Advancement

1992 December 13-16, Arlington, Virginia

Winter Simulation Conference 1992

Paper: (with Dr. D.G. King, Dr. L.G. Birta, Dr. M. Hitz)

- Requirements for a Repository-Based Simulation Environment

### 1993

Ören, T.I. (1993). Simulation Environments: Challenges for Advancement. Chinese Journal of Systems Engineering and Electronics, 4:4 (Nov.), 12-23.

### 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. Vol. 2: Industrial Simulation, Computer and Telecommunication Systems, 352 p. Vol. 3: Additional Papers, 113 p.

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

1994 May 16-20, Ottawa, Ontario

CAST-94 (Computer-Aided Systems Technology)

Organized by:

- Ottawa Center of the McLeod Institute of Simulation Sciences
- State Univ. of New York at Binghamton; Dept. of Systems Science, Binghamton, NY
- University of Ottawa; Graduate Systems Science Programme, Ottawa, On.

In Cooperation with:

- The International Federation for Systems Research (IFSR)
- The Society for Computer Simulation International (SCSI)

Sponsored by: Ottawa Carleton Research Institute (OCRI)

General Chairman

Organizer and Moderator of the Closing Panel on:

- CAST for Challenging Applications: Desirable Research Directions.

Article: Architectures of Mixed and Pure Knowledge-Based Approaches for Continuous Simulation Environments. (with Dr. N. Ghassem-Aghaee)

Co-Editor of the Proceedings (with Prof. George J. Klir). Springer-Verlag.

### 1995

Ören, T.I. (1995). [Enhancing Innovation and Competitiveness Through Simulation](#). Preface of the Proceedings of 1995 Summer Computer Simulation Conf., Ottawa, Ont., July 24-26, SCS, San Diego, CA., pp. vi-vii.

1995 July 24-26, Ottawa, Ontario

[Summer Computer Simulation Conference](#),

Sponsor: The Society for Computer Simulation International (SCSI)

Program Chairman, Co-Editor of the Proceedings (with Prof. L.G. Birta)

Invited Speaker: "Enhancing Innovation and Competitiveness through Simulation"

Organizer and Moderator of the Panel on: Synergy of Artificial Intelligence and Simulation: Recent Advances and Promising Research Areas

## 1996

Ören, T.I. and Ghasem-Aghaee, N., (1996). [Multiparadigm \(Knowledge-Based and Numerical\) Continuous Simulation Environments: Architectural Issues](#). In: Computer Aided Systems Theory - CAST '94, T.I. Ören and G.J. Klir, (eds.). Springer-Verlag, New York, NY, pp. 151-160.

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.

## 1997

Abdullah, B., Ören, T., (1997). Enhancement of a Simulation Environment with IMAGES (Intelligent Multi-Agent Based Virtual Gauges). In: Proceedings of the 1<sup>st</sup> World Congress on Systems Simulation, Singapore, Sept. 1-4, 1997, pp. 359-363.

Ören, T.I. (1997). Criteria for User/System Interface Design and Evaluation. In: Proc. of the AFCEA Turkey Seminar on Battlefield Visualization, Sept. 25-26, 1997, Ankara, Turkey.

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

NATO Modeling and Simulation Master Plan, version 1.0. NATO RTO Pub No: AC/323 (SGMS)D/2 (T.Ören contributed as a member of the SGMS - Steering Group on NATO Simulation Policy and Applications.)

## 1999

Ören, T.I., Cetin, S. (1999). [Quality Criteria for User/System Interfaces](#). In: Proc. of the Symposium on Modelling and Analysis of C3I Systems, NATO R&T Agency, 12-14 January 1999, Fort d'Issy les Moulinaux, near Paris, France, pp. 18-1 – 18-8.

1999 July 2, Wageningen, The Netherlands

Wageningen University  
Special Symposium: Simulation and Ethics  
Invited Presentation: Responsibility, Ethics and Simulation

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

## 2000

Ören, T.I. (2000). Responsibility, Ethics, and Simulation. Transactions of the SCS, San Diego, CA. (An early version was translated and published in German , 17:4 (Dec.), 165-170.

Ören, T.I. (2000 – Invited Opening Paper). Understanding: A Taxonomy and Performance Factors. In: D. Thiel (ed.) Proc. of FOODSIM'2000, June 26-27, 2000, Nantes, France. SCS, San Diego, CA, pp. 3-10.

Ören, T.I. (2000 - Invited Paper). Agent-directed Simulation - Challenges to meet Defense and Civilian Requirements. Proc. of the 2000 Winter Simulation Conference, J.A Joines et al., eds., Dec. 10-13, 2000, Orlando, Florida, pp. 1757-1762.

Ören, T.I. (2000 - Invited Presentation). Use of Intelligent Agents for Military Simulation. Lecture Notes of Simulation for Military Planning, 21-22 Sept. 2000, Brussels, Belgium. International Seminars and Symposia Centre.

2000 March 6-8, Tucson, Arizona, USA

[AIS 2000: AI, Simulation and Planning](#) (Attendance by Invitation Only)

Co-sponsored by Society for Computer Simulation, Member of the Program Committee

Invited Article: Towards a Modelling Formalism for Conflict Management

Organizer and Moderator of a Panel:

- Modelling and Simulation: Challenges for Early 21st Century

2000 April 16-20, Washington, D.C., USA

33rd Annual Simulation Symposium (held in conjunction with the SCS 2000

Advanced Simulation Technologies Conference), Member of the Program Committee

## 2001

Ören, T.I. (2001 – Invited contribution). [Towards a Modelling Formalism for Conflict Management](#). In: Discrete Event Modeling and Simulation: A Tapestry of Systems and AI-based Theories and Methodologies. H.S. Sarjoughian and F.E. Cellier (eds.), Springer-Verlag, New York, pp. 93-106. ([presentation](#)).

Ören, T.I. (ed.) (2001). Software Agents and Simulation. Special Issue of Simulation Journal. June 2001.

2001 June 18-23, St. Petersburg, Russia

[4th St. Petersburg Workshop on Simulation](#)

St. Petersburg State University and INFORS College on Simulation (USA)

Invited Plenary Paper: Software Agents for Experimental Design in Advanced Simulation Environments

2001 June 26-29, Delft, the Netherlands

[Eurosims 2001](#): Shaping Future with Simulation, 4th International Eurosims Congress

Member: International Scientific Committee

Invited Plenary Paper: Impact of Data on Simulation: From Early Practices to Federated and Agent-Directed Simulations

## 2002

Ören, T.I. (2002 - Invited Paper). [SCS and Simulation: Fifty Years of Progress](#), 50th Anniversary Issue, Modeling and Simulation, 1:3 (July-September), 32-33.

Ören, T.I., M.S. Elzas, I. Smit, and L.G. Birta (2002). A Code of Professional Ethics for Simulationists. Proceedings of the 2002 Summer Computer Simulation Conference, pp. 434-435.

- Ören, T.I. (2002). Rationale for A Code of Professional Ethics for Simulationists. Proceedings of the 2002 Summer Computer Simulation Conference, pp. 428-433.
- Ören, T.I. (2002). [Future of Modelling and Simulation: Some Development Areas](#). Proceedings of the 2002 Summer Computer Simulation Conference, pp. 3-8. ([presentation](#)). ([at SCS digital library](#))
- Ören, T.I. (2002 - Invited Plenary Paper). [Growing Importance of Modelling and Simulation: Professional and Ethical Implications](#). Proceedings of the Asian Simulation Conference / the 5th International Conference on System Simulation and Scientific Computing, Cheng, Zongji et al., eds., Nov. 3-6, 2002, Shanghai, China. International Academic Publishers / Beijing World Publishing Corp. Vol.1, pp. 22-26. ([presentation](#)).
- 2002 July 14-18, San Diego, CA  
[SCSC 2002](#) Summer Computer Simulation Conference  
Paper: "Future of Modelling and Simulation: Some Development Areas"
- 2002 November 3-6, Shanghai, P.R. China  
[ICSC'2002](#) - The 5th Conference on System Simulation and Scientific Computing (Part of the Asian Simulation Conference.) Sponsored by: Chinese Association for System Sim. A Co-chair of the [International Program Committee](#)  
Invited Plenary Speech: "Growing Importance of Modelling and Simulation: Professional and Ethical Implications"

## 2003

- Ören, T.I. and Ghasem-Aghaee, N. (2003). Personality Representation Processable in Fuzzy Logic for Human Behavior Simulation, Proceedings of the 2003 Summer Computer Simulation Conference, Montreal, PQ, Canada, July 20-24, 2003, pp. 11-18.
- Ghasem-Aghaee, N. and Ören, T.I. (2003). Towards Fuzzy Agents with Dynamic Personality for Human Behavior Simulation, Proceedings of the 2003 Summer Computer Simulation Conference, Montreal, PQ, Canada, July 20-24, 2003, 3-10.
- 2003 October 3-4, Chicago, Illinois  
[Agent 2003](#) - The Agent 2003 Conference on Challenges in Social Simulation.  
Paper (with Dr. Levent Yilmaz):  
-Towards Simulation-Based Problem Solving Environments for Conflict Management in Computational Social Science
- 2003 December 3-4, Tucson, Arizona  
[DLS03](#) - NSF Workshop on Modeling and Simulation of Large Software-Intensive Systems: Challenges and New Research Directions  
(participation by invitation only - invitation declined)

## 2004

- Ghasem-Aghaee, N. and Ören, T.I. (2004). Effects of Cognitive Complexity in Agent Simulation: Basics, Proceedings of SCSC 2004 - Summer Computer Simulation Conference, July 25-29, 2004, San Jose, CA., pp. 15-19.
- Ören, T.I. and L. Yilmaz (2004). Behavioral Anticipation in Agent Simulation, Proceedings of WSC 2004 - Winter Simulation Conference, Washington, D.C., December 5-8, 2004, pp. 801-806.
- Yilmaz, L. and Ören, T.I. (2004). Dynamic Model Updating in Simulation with Multimodels: A Taxonomy and a Generic Agent-Based Architecture, Proceedings of SCSC 2004 - Summer Computer Simulation Conference, July 25-29, 2004, San Jose, CA., pp. 3-8.

Yilmaz, L. and Ören, T.I. (2004). Prospective Issues in Simulation Model Composability: Basic Concepts to Advance Theory, Methodology, and Technology. The MSIAC's M&S Journal online, Fall issue 2004, vol. 6, no. 1.

Yilmaz, L. and Ören, T.I. (2004). Towards Simulation-based Problem-solving Environments for Conflict Management in Computational Social Science, Proceedings of [Agent 2003](#) - The Agent 2003 Conference on Challenges in Social Simulation, Chicago, Illinois, October, 2-4, 2003, pp. 25-37.

2004 September 1-31, Marseille, France

[LSIS](#) Laboratoire des Sciences de l'information et des Systèmes, Université Paul Cézanne – Aix Marseille 3

Visiting professor

Invited Presentation:

- Personality Knowledge and Cognitive Complexity for Human Behavior Simulation with Software Agents ([presentation](#)) (September 9, 2004)

2004 September 15, Marseille, France

[EPUM](#) Ecole polytechnique Universitaire de Marseille, Département du Génie Industriel et Informatique, Université de Provence-Aix-Marseille I

Invited Presentation: Growing Importance of Modelling and Simulation: Professional and Ethical Implications ([presentation](#))

2004 October 28-31, Genoa, Italy

[CMS 2004](#) - Conference on Conceptual Modeling and Simulation

Part of the I3M - International Mediterranean Modeling Multiconference

Sponsored by SCS Mediterranean Council

Member of the Program Committee

Paper (with Dr. Levent Yilmaz): A Conceptual Model for Reusable Simulations within a Model-Simulator-Context Framework

## 2005

Ghasem-Aghae, N., Kaedi, M., T.I. Ören (2005). Effects of Cognitive Complexity in Agent Simulation: Fuzzy Rules and an Implementation. In: Proceedings of: CM&SC - Conceptual Modeling and Simulation Conference 2005, within I3M'2005 - International Mediterranean Multiconference, October 20-22, 2005, Marseille, France, SCS, San Diego, CA.

Ören, T.I. (2005 – Invited Keynote Article). [Maturing Phase of the Modeling and Simulation Discipline](#). In: Proceedings of: [ASC](#) - Asian Simulation Conference 2005 (The Sixth International Conference on System Simulation and Scientific Computing (ICSC'2005), 2005 October 24-27, Beijing, P.R. China, International Academic Publishers - World Publishing Corporation, Beijing, P.R. China, pp. 72-85. ([presentation](#))

Ören, T.I. (2005 - Invited Tutorial). Toward the Body of Knowledge of Modeling and Simulation (M&SBOK), In: Proc. of I/ITSEC (Interservice/Industry Training, Simulation Conference). Nov. 28 - Dec. 1, Orlando, Florida; paper 2025, pp. 1-19.

Ören, T.I. and L. Yilmaz (2005). Quality Principles for the Ergonomics of Human-Computer Interfaces of Modeling and Simulation Software, Proceedings of SIMCHI'05 - 2005 International Conference on Human-Computer Interface Advances for Modeling and Simulation, January 23 - 25, 2005, New Orleans, Louisiana, pp. 5-11.

Seck, M., C. Frydman, N. Giambiasi, T.I. Ören, and L. Yilmaz (2005). Use of a Dynamic Personality Filter in Discrete Event Simulation of Human Behavior under Stress and Fatigue. 1st International Conference on Augmented Cognition, July 22-27, 2005, Las Vegas, Nevada.

Yilmaz, L. and T.I. Ören (Eds.). (2005). Special Issue on “Agent-Directed Simulation” of the Transactions of the Society for Modeling and Simulation International. Vol. 81, issue 7, July 2005.

2005 July 22-27, Las Vegas, Nevada

[AugCog'05](#) - Augmented Cognition International

Article (with M. Seck, C. Frydman, N. Giambiasi, and L. Yilmaz): Use of a Dynamic Personality Filter in Discrete Event Simulation of Human Behavior Under Stress and Fatigue.

2005 October 24-27, Beijing, P.R. China

[ASC](#) - Asian Simulation Conference 2005 (The Sixth International Conference on System Simulation and Scientific Computing (Beijing) (ICSC'2005)

Co-Chairman, International Program Committee

Keynote-speaker: Maturing Phase of the Modeling and Simulation Discipline

## 2006

Kazemifard, M., Ghasem-Aghaee, N., and T.I. Ören (2006). An Event-based Implementation of Emotional Agents. Proc. Summer Simulation Conference, Calgary, Canada, pp. 63-67.

Ören, T.I. (2006). Simulation: Fundamental Concepts and Advancements. (In Turkish: *Benzetim: Temel Kavramlar ve İlerlemeler*) ([terimler](#)) In: Informatics Encyclopedia of Turkey (In Turkish: Türkiye Bilisim Ansiklopedisi), Papatya Yayıncılık, Istanbul, Turkey, 144-149.

Ören, T.I. (2006). Body of Knowledge of Modeling and Simulation (M&SBOK): Pragmatic Aspects. EMSS 2006 - 2nd European Modeling and Simulation Symposium, ISBN: 84-690-0726-2, pp. 327-336. 2006 October 4-6, Barcelona, Spain.

Ören, T.I. and L. Yilmaz (2006). Synergy of Systems Engineering and Modeling and Simulation. Proceedings of the 2006 International Conference on Modeling and Simulation - Methodology, Tools, Software Applications (M&S MTSA), pp. 10-17. July 31 - August 2, 2006, Calgary, AL, Canada.

Saple, A., L. Yilmaz, and T.I. Ören (2006). An Agent-based Simulation Study of Anticipatory and Adaptive Fault Management in Computer Networks. Proc. Summer Simulation Conference, pp. 11-18, July 29 - Aug. 2, 2006, Calgary, Canada.

Yilmaz, L. and T.I. Ören (2006). Prospective Issues in Simulation Model Composability: Basic Concepts to Advance Theory, Methodology, and Technology, The MSIAC's M&S Journal Online, 2006, Vol. 2, pp. 1-7.

Yilmaz, L., T.I. Ören, and N. Ghasem-Aghaee (2006). Simulation-Based Problem Solving Environments for Conflict Studies: Toward Exploratory Multisimulation with Dynamic Simulation Updating. *Simulation, and Gaming Journal*. [vol. 37, issue 4, pp. 534-556](#). DOI (Digital Object Identifier): 10.1177/1046878106292537.

## 2007

Ghasem-Aghaee, N. and T.I. Ören, (2007). Cognitive Complexity and Dynamic Personality in Agent Simulation ([at ACM Portal](#)), *Computers in Human Behavior* (Elsevier), Volume 23, Issue 6 (November 2007), pp. 2983-2997. doi: 10.1016/j.chb.2006.08.012.

Ghasem-Aghaee, N., L. PoorMohammadBagher, M. Kaedi, and T.I. Ören, (2007). Anger Filter in Agent Simulation of Human Behavior, ([at ACM Portal](#)) Proc. of the 18th IASTED International Conference on Modelling and Simulation, May 30 - June 1, 2007, Montreal, Quebec, Canada, pp. 44-46.

Ören, T.I. (2007). [The Importance of a Comprehensive and Integrative View of Modeling and Simulation](#). Proceedings of the Summer Simulation Conference. San Diego, CA, July 15-18, 2007. ([presentation](#))

Yilmaz, L., A. Lim, S. Bowen, and T.I. Ören (2007). Requirements and Design Principles for Multisimulation with Multiresolution, Multistage Multimodels. Proceedings of the 2007 Winter Simulation Conference, pp. 823-832, December 9-12, Washington, D.C.

Yilmaz L. and T.I. Ören (2007-Invited paper). On Multiresolution Simulation Modeling of Team and Human Behavior for Software Process Design. Proceedings of the [Tenth World Conference on Integrated Design and Process Technology](#), June 3-8, 2007, Antalya, Turkey, pp. 210-219.

## 2008

Mazadi, Z., Ghasem-Aghaee, N., and T.I. Ören (2008). [Prelude to Cultural Software Agents: Cultural Backgrounds in Agent Simulation](#). Proceedings of the Spring Simulation MultiConference, Ottawa, ON, Canada, April 14-17, 2008. SCS, San Diego, CA in collaboration with ACM/SIGSIM, pp. 135-142.

Ören, T.I. and F. Longo (2008). [Emergence, Anticipation and Multisimulation: Bases for Conflict Simulation](#). Proceedings of the EMSS 2008- 20th European Modeling and Simulation Symposium. (Part of the IMMM-5 - The 5th International Mediterranean and Latin American Modeling Multiconference), September 14-17, 2008, Campora San Giovanni, Italy, pp. 546-555. ([presentation](#))

Ören, T.I. (2008). A Framework for Desirable Activities and Research in M&S. Part of the Position Statements for the Panel Discussion: L. Yilmaz (ed.) What Makes Good Research in Modeling and Simulation: Sustaining the Growth and Vitality of the M&S Discipline. Proceedings of the Winter Simulation Conference.

Yilmaz, L., T.I. Ören and P. Thavikulwat (2008). [Artificial Intelligence and Simulation](#). Special Issue of the Journal: [Simulation & Gaming](#). Volume 39, Issue 1 (March 2008), pp. 7-9. ([ACM Portal](#)) ([SAGE Journals Online](#))

## 2009

Ghasem-Aghaee, N., B. Khalesi, M. Kazemifard, and T.I. Ören (2009). Anger and Aggressive Behavior in Agent Simulation. In: Simulation Series, vol. 41, no. 3, Proceedings of the Summer Computer Simulation Conference, July 13-16, 2009, Istanbul, Turkey. SCS, Dan Diego, CA, pp. 267-274.

Kazemifard, M., N. Ghasem-Aghaee, and T.I. Ören (2009). Agents with Ability to Understand Emotions. In: Simulation Series, vol. 41, no. 3, Proceedings of the Summer Computer Simulation Conference, July 13-16, 2009, Istanbul, Turkey. SCS, Dan Diego, CA, pp. 254-260.

Merkuryeva, G., J. Bikovska, and T.I. Ören (2009). An Agent-Directed Multisimulation Framework for Management Simulation Games.

Ören, T.I. (2009). Modeling and Simulation: A Comprehensive and Integrative View. In L. Yilmaz and T.I. Ören (eds.). Agent-Directed Simulation and Systems Engineering. Wiley Series in Systems Engineering and Management, Wiley-Berlin, Germany, pp. 3-36.

Ören, T.I. and L. Yilmaz (2009). Failure Avoidance in Agent-Directed Simulation: Beyond Conventional V&V and QA. In L. Yilmaz and T.I. Ören (eds.). Agent-Directed Simulation and Systems Engineering. Systems Engineering Series, Wiley-Berlin, Germany, pp. 189-217.

Ören, T.I. and L. Yilmaz (2009). [On the Synergy of Simulation and Agents: An Innovation Paradigm Perspective](#). Special Issue on Agent-Directed Simulation. The International Journal of Intelligent

Control and Systems (IJICS), Vol. 14, Nb. 1, March 2009, 4-19.

- Ören, T.I., L. Yilmaz, M. Kazemifard, and N. Ghasem-Aghae (2009). Multi-understanding: A Basis for Switchable Understanding for Agents. In: Simulation Series, vol. 41, no. 3, Proceedings of the Summer Computer Simulation Conference, July 13-16, 2009, Istanbul, Turkey. SCS, Dan Diego, CA, pp. 395-402.
- PoorMohamadBagher, L., M. Kaedi, N. Ghasem-Aghae, and T.I. Ören (2009). Anger Evaluation for Fuzzy Agents with Dynamic Personality. In: Mathematical and Computer Modelling of Dynamical Systems. **DOI:** 10.1080/13873950903139585. **First Published on:** 21 August 2009.
- Yilmaz, L. and T.I. Ören (eds.) (2009-All Chapters by Invited Contributors). [Agent-Directed Simulation and Systems Engineering](#). Wiley Series in Systems Engineering and Management, Wiley-Berlin, Germany. 520 p.
- Yilmaz, L., T.I. Ören (2009). Agent-Directed Simulation (ADS). In L. Yilmaz and T.I. Ören (eds.). Agent-Directed Simulation and Systems Engineering. Wiley Series in Systems Engineering and Management, Wiley-Berlin, Germany, pp. 11-143.
- Yilmaz L. and T. I. Ören (2009). Rethinking M&S to Enhance Creativity and Computational Discovery. In: Simulation Series, vol. 41, no. 3, Proceedings of the Summer Computer Simulation Conference (SCSC'09) of 2009 International Simulation Multiconference. Istanbul, Turkey, July 13-16, 2009, pp. 66-74.

## 2010

- Ören, T.I. (2010). [Simulation and Reality: The Big Picture](#). (Invited paper for the inaugural issue) [International Journal of Modeling, Simulation, and Scientific Computing](#) (of the Chinese Association for System Simulation - CASS) by the World Scientific Publishing Co. China, Vol. 1, No. 1, 1-25. DOI: <http://dx.doi.org/10.1142/S1793962310000079>
- Yilmaz, L. and Tuncer Ören (2010–Invited paper). [Intelligent Agent Technologies for Advancing Simulation-based Systems Engineering via Agent-Directed Simulation](#). SCS M&S Magazine. SCS M&S Magazine, July.
- Ören, T.I. (2010–Invited paper). Synergies of Simulation, Agents, and Systems Engineering. In (Mustafa Güneş, ed.), [Proceedings](#) of the 1st International [Symposium](#) on Computing in Science and Engineering, Kusadasi, Turkey, June 3-5, 2010, Gediz University, Turkey. pp. 33-38.
- Ören, T.I. and L. Yilmaz (2010). Semantic Agents with Understanding Abilities and Factors Affecting Misunderstanding. In: A. Elci, M.T. Traore, and M.A. Orgun (eds.) Semantic Agent Systems: Foundations and Applications, Springer-Verlag.

## 2011

- Ören, T., & Yilmaz, L. Synergies of simulation, agents, and systems engineering. Expert Systems with Applications (2011), doi:10.1016/j.eswa.2011.06.038.

### 2011 September 7-15, Beijing, China

Beijing University of Aeronautics and Astronautics; (aka) Beihang University  
School of Automation Science & Electrical Engineering

#### Invited seminar:

- Future of Modeling and Simulation: Normative Views, Desirable Growth Areas, and Challenges

### 2011 September 16-22, Changsha, China

National University of Defense Technology



System Simulation Lab

**Invited seminar:**

- Future of Modeling and Simulation: Normative Views, Desirable Growth Areas, and Challenges