

**Publications, Presentations and Other Relevant Activities of Dr. Tuncer Ören on:**  
**Modeling and Simulation Body of Knowledge (M&S BoK)**  
**and Comprehensive and Integrative View of M&S (Big Picture)**

updated: 2012-04-02

**Relevant Work:**

- [M&S BoK web site](#)
- [M&S Dictionary Project](#)
- [Terminology](#)
- [Taxonomies](#)
- [M&S Associations/Centers/Groups](#)

Some statistics (future publications / meetings)  
 Meetings include conferences/symposia/tracks of sessions organized/invited/participated

		0	1	2	3	4	5	6	7	8	9	total
2000s	publications						2	2	3		4	11
	meetings						2	2	3	1	1	9
2010s	publications	4	3	(2)								7 (2)
	meetings	2	2	(1)								4 (1)
											publications	18 (2)
											meetings	13 (1)

**2005**

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)),

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

2005 October 24-27, Beijing, P.R. China, International Academic Publishers - World Publishing Corporation, Beijing, P.R. China, pp. 72-85. ([presentation](#))

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](#))  
 (Annual Special Event presented by the Society for Modeling and Simulation International (SCS) Coordinators: Ms. Priscilla Elfrey, Dr. Levent Yilmaz, and. Mr. Jeffrey Wallace.

Moderator: Ms. Priscilla Elfrey

**Invited Tutorials:** Toward the Body of Knowledge of Modeling and Simulation

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## 2006

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), July 31 - August 2, 2006, Calgary, AL, Canada, pp. 10-17. ([presentation](#))

Ören, T.I. (2006). [Body of Knowledge of Modeling and Simulation \(M&SBOK\): Pragmatic Aspects](#). Proc. [EMSS 2006](#) - 2nd European Modeling and Simulation Symposium, 2006 October 4-6, Barcelona, Spain. ([presentation](#))

2006 September 22 - October 23, Barcelona, Spain

University of Barcelona (Universitat Autònoma de Barcelona)

A series of [invited doctoral lectures](#) (Barcelona Lectures):

[Lecture 1](#) - Modeling and Simulation (M&S):

A Comprehensive View and an Introduction to the Body of Knowledge

[Lecture 2](#) - Synergy of Systems Engineering and Modeling and Simulation

2006 October 4-6, Barcelona, Spain

[EMSS 2006](#) - 2nd European Modeling and Simulation Symposium

**Article:** Body of Knowledge of Modeling and Simulation (M&SBOK): Pragmatic Aspects

## 2007

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

Yilmaz, L. and T.I. Ören (2007). Agent-directed Simulation Systems Engineering. Proceedings of the 2007 Summer Computer Simulation Conference July 15-18, 2007, San Diego, CA.

Ören, T.I. and W. Waite (2007). [Need for and Structure of an M&S Body of Knowledge](#). Tutorial at the [I/ITSEC](#) (Interservice/Industry Training, Simulation Conference). Nov. 26-29, Orlando, Florida.

2007 April 19, Norfolk, Virginia

[2007 Capstone Conference](#) - 2007 Modeling, Simulation, & Gaming Student Capstone Conference. Hosted by: The Virginia Modeling, Analysis and Simulation Center ([VMASC](#)) of [Old Dominion University](#)

A judge in the Discipline of M&S Body of Knowledge Track

2007 July 15-18, San Diego, CA

[SCSC 2007](#) - Summer Computer Simulation Conference 2007

**Member**, International Program Committee

**Article:** The Importance of a Comprehensive and Integrative View of Modeling and Simulation

**Article** (with Dr. Levent Yilmaz): Agent-directed Simulation Systems Engineering

2007 November 26-29, Orlando, Florida

[/ITSEC](#) - Interservice/Industry Training, Simulation Conference

**Tutorial** (with Bill Waite): [Need for and Structure of an M&S Body of Knowledge](#)

## 2008

2008 October 4 - October 10, Ankara, Turkey

Middle East Technical University, Ankara, Turkey

ODTÜ-TSK MODSIMMER [Modeling and Simulation Research and Development Center](#)

A series of invited research lectures (Ankara Lectures - lectures are in Turkish):

Lecture 1 - Modeling and simulation: A comprehensive view and the body of knowledge (Modelleme ve benzetim: Geniş kapsamlı bir bakış ve bilgi varlığı)

Lecture 2 - Necessity of the synergy of systems engineering and modeling and simulation of complex simulation studies (Karmaşık benzetim çalışmaları için sistem mühendisliği ile modelleme ve benzetimin sinerjisine gereksinim)

Lecture 4 - Growing scope and importance of modeling and simulation and necessity of ethics in simulation studies (Modelleme ve benzetimin kapsam ve önemindeki gelişmeler ve benzetim çalışmalarında etik gereksinmele)

## 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.

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.

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.

Ören, T.I. (2009). [Uses of Simulation](#). Chapter 7 in: [Principles of Modeling and Simulation: A Multidisciplinary Approach](#), by. John A. Sokolowski and Catherine M. Banks (eds.) (All Chapters by Invited Contributors). John Wiley and Sons, Inc. New Jersey. pp. 153-179.

2009 March 4 and 11

Introductory Webinars:

Modeling & Simulation Body-of-Knowledge Index (M&S BOK Index)

(Bill Waite and Tuncer Ören) [slides](#) (9.69 MB)

(from the M&S Body-of-Knowledge: [BoK Sharepoint site](#))

## 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>

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.

Lacy, L.W., Gross, D.C., Ören, T., and B. Waite (2010). A Realistic Roadmap for Developing a Modeling and Simulation Body of Knowledge Index. Proceedings of SISO (**Simulation Interoperability Standards Organization**) Fall SIW (Simulation Interoperability Workshop) Conference, Orlando, FL, September 20-24, 2010.

Ören, T.I. and B. Waite (2010). [Modeling and Simulation Body of Knowledge Index: An Invitation for the Final Phases of its Preparation](#). SCS M&S Magazine, Vol. 1, issue 4 (October).

2010 July 11-14, Ottawa, Ontario, Canada

**Co-organizer** (with Mr. Bill Waite) of a [workshop on M&S Body of Knowledge](#) within [SCSC 2010](#) - Summer Computer Simulation Conference 2010 (Part of SummerSim'10 - Summer Simulation Multiconference of [SCS](#) which is part of [ISMC'10](#) - 2010 International Simulation Multiconference)

2010 September 21-October 8, Savona, Italy

DIPTeM, University of Genoa, Savona, Italy

**Visiting Professor**

**Invited talk** at SIREN: M&S & Interoperability (on September 27, 2010):

"[Simulation: The Big Picture](#) - A Comprehensive and Integrative View"

**Invited talk** at SIREN: M&S for Industrial Plant Engineering (on October 6, 2010):

"Simulation: The Big Picture - A Comprehensive and Integrative View"

## 2011

Ören, T.I. (2011). [A Basis for a Modeling and Simulation Body of Knowledge Index: Professionalism, Stakeholders, Big Picture, and Other BoKs](#). SCS M&S Magazine, 2:1 (Jan.), pp. 40-48.

Ören, T.I. (2011). [The Many Facets of Simulation through a Collection of about 100 Definitions](#). SCS M&S Magazine, 2:2 (April), pp. 82-92.

Ören, T.I. (2011). [A Critical Review of Definitions and About 400 Types of Modeling and Simulation](#). SCS M&S Magazine, 2:3 (July), pp. 142-151.

2011 September 7-15, Beijing, China

Beijing University of Aeronautics and Astronautics; (aka) Beihang University

School of Automation Science & Electrical Engineering

**Invited seminars:**

- Modeling and Simulation: Big Picture and Body of Knowledge
- 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 seminars:**

- Modeling and Simulation: Big Picture and Body of Knowledge
- Agents with understanding abilities and ways to avoid misunderstanding

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

## 2012

Ören, T.I. and B.P. Zeigler (2012-In Press). System Theoretic Foundations of Modeling and Simulation: A Historic Perspective and the Legacy of A. Wayne Wymore. Special Issue of Simulation –The Transactions of SCS.

Ören, T.I. and L. Yilmaz (2012-In Preparation). Philosophical Aspects of Modeling and Simulation. In: Ontology, Epistemology, and Teleology of M&S, A. Tolk (ed.). SpringerVerlag.

2012 July 28-31, Rome, Italy

[SIMULTECH 2012](#) – 2nd International Conference on Simulation and Modeling Methodologies, Technologies and Applications

- [A Keynote speaker](#): The Richness of Modeling and Simulation and its Body of Knowledge