

**Publications, Presentations, and other activities of Dr. Tuncer [Ören](#) on:
Modeling and Simulation Body of Knowledge (MSBOK)**

updated: 2023-08-07 (yyyy-mm-dd)

Some statistics

		0	1	2	3	4	5	6	7	8	9	total	cumulative
2000s	publications						1	1				2	2
	presentations						1	2	2	1	1	7	7
2010s	publications	2	1	1		1			1			6	8
	presentations	2	2	1		1						6	13
2020s	publications				18							18	26
													39

15 previous lectures/seminars on several aspects of M&S can be accessed at: ([link](#))

2023 **Ören, T., B. Zeigler, A. Tolk (2023).** Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.) (at [Springer](#), at [Amazon](#), at [Barnes & Noble](#)).

**The following 17 entries are for the Body of Knowledge for Modeling and Simulation:
A Handbook by the Society of Modeling and Simulation International**

Ören, T. (2023). Scope (Section 1.1 of Chapter 1: Preliminary). **Ören, T., B. Zeigler, A. Tolk (In Press: 2025).** Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)

Ören, T. (2023). The Big Picture (Section 2.1 of Chapter 2: M&S BoK Core Areas and the Big Picture). **Ören, T., B. Zeigler, A. Tolk (In Press: 2023).** Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)

Ören, T. (2023). Types of Experimentations (Section 3.1 of Chapter 3: Simulation as Experimentation). **Ören, T., B. Zeigler, A. Tolk (In Press: 2023).** Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)

Ören, T. (2023). Types of Simulation Techniques for Experimentations (Section 3.3 of Chapter 3: Simulation as Experimentation). **Ören, T., B. Zeigler, A. Tolk (In Press: 2023).** Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation

Foundations, Methods and Applications Series - SFMA.)

- Ören, T.** (2023). Types of Simulation Techniques for Experience (Section 4.1 of Chapter 4: Simulation as Experience to Enhance Three Types of Skills). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Code of Best Practice (Section 6.2 of Chapter 6: Infrastructure). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Lessons Learned (Section 6.3 of Chapter 6: Infrastructure). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Errors – Types and Sources (Section 7.1 of Chapter 7: Reliability and Quality Assurance of M&S). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Failure Avoidance (Section 7.5 of Chapter 7: Reliability and Quality Assurance of M&S). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Code of Ethics for Simulationists (Section 8.3 of Chapter 8: Ethics). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Models, Programs, Processes, Individuals, and Organizations (Section 10.1 of Chapter 10: Maturity and Accreditation). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Wearable Simulation (Section 11.3 of Chapter 11: Supporting Computer Domains). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Quantum Simulation (Section 11.5 of Chapter 11: Supporting Computer Domains). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)

- Ören, T.** (2023). Synergies of Artificial Intelligence and M&S (Section 12.3 of Chapter 12: Synergies of Soft Computing and M&S). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Synergies of Agents and M&S (Section 12.5 of Chapter 12: Synergies of Soft Computing and M&S). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Neto, V.V.G., **Ören, T.** (2023). Facets of Agent-Directed Simulation (Section 12.6 of Chapter 12: Facets of Agent-Directed Simulation). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- Ören, T.** (2023). Previous Studies on M&S BoK (Section 17.4 of Chapter 17: History of Simulation). **Ören, T., B. Zeigler, A. Tolk** (In Press: 2023). Body of Knowledge for Modeling and Simulation A Handbook by the Society of Modeling and Simulation International. Springer Cham, Switzerland. XV, 525 pp. (in the Simulation Foundations, Methods and Applications Series - SFMA.)
- 2017** Durak, U., T. **Ören**, and A. Tolk (2017). An Index to the Body of Knowledge of Simulation Systems Engineering (Chapter 2 of: Tolk, A. and T. Ören (eds.) (2017). The Profession of Modeling and Simulation. Wiley.
- 2014** **Ören**, T.I. (2014-Invited paper). [The Richness of Modeling and Simulation and an Index of its Body of Knowledge](#). (A revised and extended version of the keynote presentation at SIMULTECH'12, Rome, Italy, July 28-31, 2012). In: M.S. Obaidat, J. Filipe, J. Kacprzyk and N. Pina (eds) [Simulation and Modeling Methodologies, Technologies and Applications](#), Advances in Intelligent Systems and Computing, Vol. 256, Springer, pp. 3-24. ([video](#)) (a [review](#))
- 2012** **Ören**, T.I. (2012-Invited Keynote Paper). [The Richness of Modeling and Simulation and its Body of Knowledge](#). Proceedings of SIMULTECH 2012, 2nd International Conference on Simulation and Modeling Methodologies, Technologies and Applications. Rome, Italy, July 28-31, 2012. ([presentation](#)) ([video presentation](#))
- 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.
- 2011 September 7-15, Beijing, China
Beijing University of Aeronautics and Astronautics; (aka) Beihang University
School of Automation Science & Electrical Engineering
Invited seminar:
- [Modeling and Simulation: Big Picture and Body of Knowledge](#)
- 2011 September 16-22, Changsha, China
National University of Defense Technology, System Simulation Lab

Invited seminar:

- [Modeling and Simulation: Big Picture and Body of Knowledge](#)

- 2010** 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)
- 2009** 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](#))
- 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)
- 2007** 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](#)
 An invited **judge** in the Discipline of **M&S Body of Knowledge** Track
- 2007 November 26-29, Orlando, Florida
 I/ITSEC - Interservice/Industry Training, Simulation Conference
Tutorial (with Bill Waite): [Need for and Structure of an M&S Body of Knowledge](#)
- 2006** **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

- 2005** 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. ([presentation](#))