

Modeling and Simulation Body of Knowledge Index (MSBOK)

The official site of **MSBOK** will be at the website of [SCS](#)
(The Society for Modeling & Simulation International)

(All dates are according to [ISO 6801](#) (namely: yyyy-mm-dd))

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Part 1. Background

- 1.1 PRELIMINARY
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1.1 PRELIMINARY

1.1.1 [The Technical Committee](#)

1.1.2 [Some Vision Quotations](#)

1.1.3 High Level Recognition of M&S

1.1.3.1 US Congressional Modeling and Simulation [Caucus Leadership Summit](#)

1.1.3.2 [US House Resolution 487](#) (introduced by Rep. Forbes, J. Randy [R-VA-4] 2007 June 14)

1.1.4 [Stakeholders](#) and Possible Interests for M&SBOK

1.1.4.1 M&S [Associations and Organizations](#)

1.1.4.2 For a comprehensive World Medical Simulation Centre Database click [here](#) then select the region on the map (Maintained by [BMSC](#) – Bristol Medical Simulation Centre))

1.1.4.3 [Individuals, Certified Simulationists](#)

1.1.4.4 Workforce Development

1.1.4.5 Professional Certification for **CMSP** (Certified Modeling and Simulation Professional) designation: [M&SPCC](#) – M&S Professional Certification Commission

1.1.5 [Professional Concerns](#) ([Professionalism, Achievements, Progress, and Challenges](#))

1.1.5.1 Why an M&SBOK? Rationale and Possible Usages – [Some Views](#)

1.1.5.2 [BOK studies in other disciplines](#)

1.1.6 M&SBOK

1.1.6.1 [Early Studies](#)

1.1.6.2 Dr. Ören's [publications and activities on MSBOK](#)

1.1.7 Bloom's Taxonomy of Cognitive Development

1.1.7.1 [Original taxonomy](#)

1.1.7.2 [Revised taxonomy](#) and competency levels

1.1.7.3 [Three domains of learning](#)

1.1.7.4 Terminology changes and [why use Bloom's taxonomy](#)
(by M. Forehand, University of Georgia)

1.2 TERMINOLOGY

1.2.1 [Background: Definitions of "Definition"](#)

1.2.2 Definitions of simulation:

1.2.2.1 Ören, T.I. (2011). [The Many Facets of Simulation through a Collection of about 100 Definitions](#). SCS M&S Magazine, 2:2 (April), pp. 82-92.1.1.4 Stakeholders and Possible Interests for M&S BOK

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

1.2.3 Collections of Special Terms

1.2.3.1 An Inventory of [over 8400 M&S Terms](#)
(Currently, the list that Dr. Ören maintains has over 12, 500 terms)

1.2.3.2 Terms and Concepts Related with Similarity

1.2.4 [M&S Dictionaries](#)

1.2.5 Ontology-Based Dictionaries

1.2.5.1 Ontology-Based Dictionary of [V&V](#) (rationale and an example)

1.2.5.2 Ontology-Based Dictionary of [Understanding](#)

1.3 COMPREHENSIVE VIEW OF M&S

1.3.1 Challenges and Benefits of a Comprehensive and Consolidated View of M&S

1.3.2 Different perspectives

1.3.3 Domain-independent Application Areas

1.3.4 Dr. Ören's publications and activities

1.3.5 Other publications and activities

1.3.6 Select articles:

1.3.6.1 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. (Based on the keynote speech of the 2009 International Simulation Multiconference of SCS and SISO, July 13-16, 2009, Istanbul, Turkey.) ([Presentation](#))

1.3.6.2 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.

1.3.6.3 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, '07.