

Dictionaries of Modeling and Simulation (M&S), Cybernetics, and Systems

(compiled by Tuncer Ören) – updated 2022-09-24

Modeling and Simulation (29 dictionaries)

Augmented Reality

[AR BimDictionary](#)

Augmented Reality Simulation (AR)

Analog and Hybrid Computers

[NEES](#)

NEES (Network for Earthquake Engineering Simulation)
Hybrid Simulation Primer and Dictionary

[SCS-1975](#)

The Society for Computer Simulation - Definitions of Terms
for Analog and Hybrid Computers (1 November 1975).
Simulation, 26:3 (March 1976), 80-86.

Biology

[SB](#)

Biology Online Dictionary

Education

[UCF](#)

UCF (University of Central Florida) Modeling and Simulation
Terminology (Modeling and Simulation for Instructional
Design)

Environmental Engineering

[EnvEng](#)

General Glossary of Terms relating to Modelling and
Simulation for Environmental Engineering

[Flight Simulation](#)

Definitions and Abbreviations for Flight Simulation Training
Devices

Gaming

[GameDeveloper](#)

Dan Carreker (2012). [The Game Developer's Dictionary: A Multidisciplinary Lexicon for Professionals and Students](#). Courser Technology Press, Boston, MA, USA.

G.I. Gibbs

G.I. Gibbs (1978). Dictionary of Gaming, Modelling &
Simulation. E & F N Spon (An imprint of Routledge) (at
[Amazon](#))

[L. Pulsipher](#)

Glossary for Game Designers. Copyright 2010 Lewis Pulsipher
FAQ 28: A Glossary of Game Biz terms.

[Sloper](#)

General M&S

[ACM SIGSIM M&S](#)

[IEEE](#)

Li, Bo Hu et al.

Li, Bo Hu et al. (2nd ed.)

[Ören et al.](#)

ACM SIGSIM Modeling and Simulation Glossary

IEEE Standard Glossary of Modeling and Simulation Terminology (IEEE 610.3-1989) withdrawn

Li, Bo H, T.I. Ören, Qipeng Zhao, Tianyuan Xiao, Zongji Chen, and Guanghong Gong et al. (2012). Modeling and Simulation Dictionary: Chinese-English, English-Chinese (over 9000 terms), Chinese Science Press, Beijing, P.R. of China. (With the contribution of 30 Chinese colleagues – [contributors](#) ([front cover](#)) (at [Amazon](#))

Li, Bo Hu et al. (2019). 2nd edition of the Modeling and Simulation Dictionary: Chinese- English, English-Chinese (about 12 500 English terms). Chinese Science Press, Beijing, P.R. of China. (at [Purple Culture](#))

Ören, T.I. and The French Team: (2006). Modeling and Simulation Dictionary: English-French-Turkish. Marseille, France. With the support of Centre Nationale de La Recherche Scientifique, I3, Université Paul Cézanne - Aix-Marseille III, and LSIS (286 pp). ISBN: 2-9524747-0-2. (at [Aix-Marseille université](#))

Currently, there are over 12 500 English terms in the master file. The work can be continued to finalize English-French, English-Italian, English-Spanish, and English-Turkish M&S dictionaries.

Healthcare

[Healthcare](#)

Loprelato, J. O. (Ed.). Downing, D., Gammon, W., Lioce, L, Sittner, B., Slot, V., Spain, A. E. (Associate Eds.), and the Terminology & Concepts Working Group. (2016). *Healthcare Simulation Dictionary*.

Retrieved from <http://www.ssih.org/dictionary>.

[Healthcare](#)

Lioce, L. (ed.). Healthcare Simulation Dictionary (2nd edition). 2020. AHRQ Publication No. 20-0019..

[INALCSL](#)

INACSL Standards Committee (2016, December). INACSL standards of best practice: SimulationSM Simulation glossary. Clinical Simulation in Nursing, 12(S), S39-S47. h

[SSH](#)

Glossary of Terms Abridged from SSH Accreditation Manual

[VHA SimLEARN](#)

Clinical Simulation and Resuscitation Glossary of Training Terms

Lighting

[LDG](#)

Lighting Design and Simulation Terminology

Military Simulation

<u>DoD M&S Glossary</u>	DoD M&S Glossary - DoD 5000.59-M
<u>SEDRIS</u>	SEDRIS (Synthetic Environment Data Representation and Interchange Specification) Glossary (2007)
<u>SISO-Fidelity</u>	SISO Glossary of Terms Applied to Fidelity
<u>SISO_DIS</u>	Distributed Interactive Simulation
<u>UK_SEMS</u>	UK Ministry of Defence Synthetic Environment & Modelling & Simulation (SEMS) Glossary
<u>Wikis</u>	Glossary of military modeling and simulation: Wikis

Verification and Validation

<u>NASA</u>	Glossary of Verification and Validation Terms
<u>NPARC V&V</u>	Glossary of Verification and Validation Terms

Cybernetics and Systems (5 dictionaries)

<u>F. Heylighen</u>	Web Dictionary of Cybernetics and Systems (Principia Cybemetrica Web)
<u>IECaS</u>	<u>International Encyclopedia of Cybernetics and Systems</u> , edited by <u>Charles François</u> , (1997) K.G. Saur publishing, München, Germany (second ed. 2004)
<u>ST</u>	Glossary of Systems Theory (Wikipedia)
<u>TSE</u>	List of Types of Systems Engineering (Wikipedia)
<u>TST</u>	List of Types of Systems Theory (Wikipedia)