

We base our research and technologies on the publications as listed below. While we do not claim ownership of the intellectual property for all of them, there are a few articles that were published through Dunip Tech LLC. All the collaborators and publishing societies retain their respective copyrights.

Books

- Zhang, L., Zeigler, B.P., **Mittal, S.**, (Eds.), **Model Engineering**, Special issue in International Journal of Modeling, Simulation and Scientific Computing, Word Scientific,

[CALL FOR PAPERS](#)

, expected publication Fall 2015

- Zander, J., **Mittal, S.**, [Proceedings of the Summer Simulation Multi-Conference 2014](#), SCS

- **Mittal, S.**, Martin, J.L.R., [Net-centric System of Systems Engineering with DEVS Unified Process: A Book in System of Systems Engineering Series by Mo Jamshidi](#)

, CRC Press, Francis and Taylor Group, Feb 2013. Buy at

[Amazon](#)

and

[CRC Press](#)

Reviews

- [Book Review in SCS Newsletter \(2013\)](#) for [Guide to Modeling and Simulation of System of Systems \(Simulation Foundations, Methods and Applications\)](#)
by Bernard P. Zeigler, Hessam S. Sarjoughian, Raphel Duboz, Jean-Christophe Soulie,
Springer 2012, 393 pages

Invited Talks

- **Mittal, S.**, [Attention-Focusing in Activity-based Intelligent Systems](#), Workshop on [Activity-based Modeling and Simulation \(ACTIMS'14\)](#), Jan 16-18, Zurich, Switzerland

- **Mittal, S.**, [Net-centric Cognitive Architecture using DEVS Unified Process](#), [Researching and Developing Persistent and Generative Cognitive Models Workshop](#)
sponsored by US Air Force Research Lab 711th Human Performance Wing and European Office of Aerospace Research and Development, Nov. 9-11, 2010, Scottsdale, AZ

Presentations

- **Mittal, S.**, (2015). [Complex Adaptive Systems Modeling](#) , adapted from a seminar given at MIT Lincoln Lab, Massachusetts, MA
- Tolk, A., **Mittal, S.**, (2014). [A Necessary Paradigm Change to Enable Composable Cloud-based M&S Services](#) , Winter Simulation Conference, Savannah, GA
- Zeigler, B.P.,(2013). [Grand Challenges in Modeling and Simulation, What can DEVS Theory Do To Meet Them? Parts 1 and 2](#) , Seminar to School of Automation Science and Electrical Engineering, [Beihang University](#) , Beijing, China, Dec.11, 2013
- **Mittal, S., Martin, J.L.R.**, (2013) [Model Driven Systems Engineering for Netcentric System of Systems Engineering with DEVS Unified Process](#) , Winter Simulation Conference, Dec 8-11, Washington, DC

Whitepapers

- Hammonds, P., **Mittal, S.**, Zeigler, B.P., (2007) [Automated Attention Agent Assessment of Current States and Prediction of Future States using DEVS Cognitive Agent](#)

Chapters

- **Mittal, S.**, Doyle, M.J., Portrey, A.M., (2014) **Human-in-the-loop modeling in System of Systems M&S: Applications to Live, Virtual and Constructive (LVC) Distributed Mission Operations (DMO)** , In [Handbook on M&S Support for System of Systems Engineering](#) , Ed. Tolk, A., Rainey, L., John Wiley & Sons (in press)
- Douglass, S.A., **Mittal, S.** (2012), **A framework for modeling and simulation of the artificial** , In [Ontology, Epistemology, and Teleology of Modeling and Simulation](#) , Ed. A. Tolk, Springer-Verlag, Berlin
- **Mittal, S.** (2011), **Agile net-centric systems with DEVS unified process**, In [Intelligence-based Systems Engineering](#) , Ed. Tolk, A., and Jain, L., Springer-Verlag Berlin
- Wainer, G., Zoubi, K., Dalle, O., Hill, D., **Mittal, S., Martin, J.L.R.**, Sarjoughian, H., Touraille, L., Traore, M., Zeigler, B.P. (2010),

Standardizing DEVS simulation middleware,

In

[Discrete Event Modeling and Simulation: Theory and Applications](#)

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- Wainer, G., Zoubi, K., Dalle, O., Hill, D., **Mittal, S., Martin, J.L.R.**, Sarjoughian, H., Touraille, L., Traore, M., Zeigler, B.P. (2010),

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[Discrete Event Modeling and Simulation: Theory and Applications](#)

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- Wainer, G., Zoubi, K., **Mittal, S., Martin, J.L.R.**, Sarjoughian, Zeigler, B.P (2010), **An introduction to DEVS Standardization**

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- **Mittal, S.**, Zeigler, B.P., **Martin, J.L.R.**, Sahin, F., Jamshidi, M. (2008), **Modeling and simulation for systems of systems engineering**

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Journals

- J.39. Josefa Díaz Álvarez, **José L. Risco-Martín** and J. Manuel Colmenar (2016). **Multi-objective optimization of energy consumption and execution time in a single level cache memory for embedded systems**

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- J.38. J. Ignacio Hidalgo, Ricardo Fernández, J. Manuel Colmenar, Florencia Cioffi, **José**

L. Risco-Martín

and Gaspar González-Doncel (2016).

Using evolutionary algorithms to determine the residual stress profile across welds of age-hardenable aluminum alloys

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- J.37. Josué Pagán, **José L. Risco-Martín**, José M. Moya and José L. Ayala (2016). **Modeling methodology for the accurate and prompt prediction of symptomatic events in chronic diseases**

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- J.36. Marina Zapater, **José L. Risco-Martín**, Patricia Arroba, José L. Ayala, José M. Moya and Román Hermida (2016). **Runtime data center temperature prediction using Grammatical Evolution techniques**

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Comparative study of meta-heuristic 3D floorplanning algorithms

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- J.33. Josefa Díaz Álvarez, J. Manuel Colmenar, **José L. Risco-Martín**, Juan Lanchares

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- J.31. Patricia Arroba, **José L. Risco-Martín**, Marina Zapater, José M. Moya and José L. Ayala (2014).

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- J.30. Hidalgo, J.I., Maqueda, E., **Martín, J.L.R.**, Infante, A.C., Colmenar, J.M., & Nobel, J. (2014).

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- J.29. **Martín, J.L.R.**, Colmenar, J.M., Hidalgo, J.I., Lanchares, J., & Josefa Díaz. (2014).

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DOI: <http://dx.doi.org/10.1051/itmconf/20140303001>

- J.27. Élez, M.S., Pardines, I., García, P., Miñana, G., Román, S. Sánchez, M., & **Martín, J.L.R.**

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- J.15. Mak, E., **Mittal, S.**, Hwang, M.H., Nutaro, J. (2010), [Automated Link-16 testing using the discrete event system specification and extensible markup language](#)
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- J.13. **Martin, J.L.R.**, **Mendel, J.**, **Mittal, S.**, Zeigler, B.P. (2009), [eUDEVS: Executable UML using DEVS theory of modeling and simulation](#)
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- J.12. **Mittal, S.**, **Martin, J.L.R.**, Zeigler, B.P. (2009), [DEVS/SOA: A cross-platform framework for net-centric modeling and simulation in DEVS unified process](#)
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Conferences

- C.34. Samira Briongos, Pedro Malagón, **José L. Risco-Martín** and José M. Moya (2016). **Modeling Side-Channel Cache Attacks on AES**

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- C.33. J. Manuel Colmenar, J. Ignacio Hidalgo, Juan Lanchares, Oscar Garnica, **José L. Risco-Martín**

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Compilable Phenotypes: Speeding-Up the Evaluation of Glucose Models in Grammatical

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- C.32. Ranjita Kumari Dash, **José L. Risco-Martín** and Ashok Kumar Turuk (2016). **Bio-Inspired Thermal Management Techniques for Three Dimensional Heterogeneous Stacked Network-on-Chip Systems**

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Optimización Multi-objetivo del Consumo de Energía y Tiempo de Ejecución en una Memoria Cache de primer nivel para Sistemas Empotrados

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Power Modeling for Run-time Energy Optimization of Cloud Computing Facilities

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- C.21. **Mittal, S.**, (2014) [Model Engineering in Cyber Complex Adaptive Systems](#) , Workshop on Model Engineering, European Modeling and Simulation Symposium, EMSS'14, Bordeaux, France

- C.20. **Mittal, S.**, Zeigler, B.P., (2014) [Modeling Attention-Switching in Resource-Constrained Complex Intelligent Dynamical Systems \(RCIDS\)](#) , Symposium on Theory of Modeling and Simulation/DEVS, Spring Simulation Multi-Conference, Tampa, FL

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- C.6: **Mittal, S., Martin, J.L.R.**, Zeigler, B.P., (2007) [DEVSMML: Automating DEVS Execution over SOA Towards Transparent Simulators](#), Special Session on DEVS Collaborative Execution and Systems Modeling over SOA, DEVS Integrative M&S Symposium DEVS' 07, Spring Simulation Multi-Conference
- C.5: **Martin, J.L.R., Mittal, S.**, Lopez-Pena, M.A., Cruz, J.M., (2007) [A W3C XML Schema for DEVS Scenarios](#), DEVS Integrative M&S Symposium DEVS'07, Spring Simulation Multi-Conference
- C.4: **Mittal, S.**, Mitra, A., Gupta, A., Zeigler, B.P., (2006) [Strengthening OV-6a Semantics with Rule-Based Meta-models in DEVS/DoDAF Based Life-cycle Architecture Development](#),
IEEE-Information Reuse and Integration (IRI06) Conference, Special section on DoDAF, Hawaii
- C.3: Zeigler, B.P., **Mittal, S.**, (2005) [Enhancing DoDAF with a DEVS-based System Lifecycle Development Process](#), In Proceedings of
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- C.2: **Mittal, S.**, Zeigler, B.P., (2005) [Dynamic Simulation Control with Queue Visualization](#), Summer Computer Simulation
Conference SCSC'05, Philadelphia, PA
- C.1: **Mittal, S.**, Wu, W., Zeigler, B.P., (2004) [A Multiconstraint-Based Real-time Routing Scheme using Simulation Methodology](#),
Summer Computer Simulation Conference, San Jose, CA