

Dov Dori

Citizenship: Israel, USA

Date and place of birth: Sept. 2, 1953, Haifa, Israel

Marital status: Married, four daughters, six grandchildren

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Web site: <http://iew3.technion.ac.il/Home/Users/dori.phtml>

Lab site: <http://esml.iem.technion.ac.il/>

ACADEMIC DEGREES

- 1988 Ph.D. Computer Science
Department of Applied Mathematics and Computer Science
Weizmann Institute of Science, Rehovot, Israel. Advisors: Prof. A. Pnueli and Prof. S. Ullman
- 1981 M.Sc. Operations Research
The Leon Recanati Graduate School of Business Administration
Tel Aviv University, Tel Aviv, Israel. Graduated with honors. Advisor: Prof. M. Ben Bassat
- 1975 B.Sc. Industrial Engineering and Management
Faculty of Industrial Engineering and Management
Technion, IIT, Haifa, Israel. Graduated with honors.

ACADEMIC APPOINTMENTS

- 2016 - date Lecturer, Systems Design and Management, School of Engineering,
Massachusetts Institute of Technology, Cambridge, MA.
- 2013 - 2014 Visiting Professor, Engineering Systems Division, School of Engineering,
Massachusetts Institute of Technology, Cambridge, MA.
- 2010 - date Head, [Enterprise Systems Modeling Laboratory](#), [Technion, IIT](#), Haifa, Israel.
- 2009 - 2012 [Visiting Professor](#), Engineering Systems Division, School of Engineering,
Massachusetts Institute of Technology, Cambridge, MA.
- 2008 - date Professor, Faculty of Industrial Engineering and Management, Technion, IIT,
Haifa, Israel.
- 2008 - 2009 Visiting Professor, Engineering Systems Division, School of Engineering,
Massachusetts Institute of Technology, Cambridge, MA.
- 2001 - 2009 Research Affiliate, Department of Aeronautics and Astronautics,
Massachusetts Institute of Technology, Cambridge, MA.
- 2000 - 2001 Visiting Associate Professor, Engineering Systems Division, School of
Engineering, Massachusetts Institute of Technology, Cambridge, MA.
- 1999 - 2000 Visiting Scholar, Sloan School of Management, Massachusetts Institute of
Technology, Cambridge, MA.
- 1999 - 2008 Associate Professor, Faculty of Industrial Engineering and Management,
Technion, IIT, Haifa, Israel.
- 1991 - 1999 Senior Lecturer, Faculty of Industrial Engineering and Management,
Technion, Israel Institute of Technology, Haifa, Israel.
- 1997 - 1999 Head, Area of Information Systems Engineering, Faculty of Industrial
Engineering and Management, Technion, IIT, Haifa, Israel.
- 2001 - 2008

1988 - 1990 Assistant Professor, Department of Computer Science, University of Kansas, Lawrence, Kansas, USA.

RESEARCH INTERESTS

- Systems Engineering, Conceptual Modeling, Software Engineering, Requirements Engineering
- Systems Engineering and Modeling, Systems Architecture, Enterprise Systems Modeling
- Object-Process Methodology
- Conceptual Modeling, Ontologies, Metamodeling
- Software Development Methodologies, Semantic Web, Service-Oriented Architecture
- Document Image Understanding, Computer Vision Applications, Robotics

HONORS, AWARDS

- 2016 Fellow, IEEE – Institute of Electrical and Electronics Engineers International "***For contributions to model-based systems engineering and document analysis recognition.***" Nov. 2016 (2017 cohort).
- 2015 Honorary member, INCOSE IL – International Council on Systems Engineering, Israel Chapter, "***For your support in advancing systems engineering infrastructures in Israel and strengthening the foundations of INCOSE IL.***" March 2015.
- 2014 Best Paper Award for “Modeling Software Agent Awareness of Physical-Informational Essence Duality” by Y. Mordecai, O. Orhof, and D. Dori, Proc. SwSTE'14, The Software Summit, Tel Aviv, Israel, June 2014.
- 2013 Member – Omega Alpha Association – International Honor Society for Systems Engineering
- 2013 Harry Lebensfeld Chair in Industrial Engineering
- 2011 Fellow, International Council on Systems Engineering (INCOSE) "***For innovative contributions to the theory and practice of model-based systems engineering through research and education.***"
- 2011 The paper "Conceptual modeling in systems biology fosters empirical findings: the mRNA lifecycle" by Dori D and Choder M in PLoS One; 2007;2(9):e872, PMID: 17849002.001 was ranked by BioMedLib™ "among the top 10 articles published in the same domain since your publication." July 3, 2011.
- 2011 Recognition by the Israeli Chamber of Systems Analysts "***For Exceptional Contribution in Developing the Domain of Information Systems in the Academia in Israel.***"
- 2011 First Prize of INCOSE_IL to a group of undergraduate students under my guidance for developing SleepBuster – a system for reducing the risk of accidents due to driver fatigue.
- 2009 Opossum, created jointly with Eran Toch, Iris Reinhartz Berger, and Avigdor Gal, won the 3rd International Semantic Service Selection Contest at the Third International Workshop SMR2 2009 on Service Matchmaking and Resource Retrieval in the Semantic Web as the fastest OWL-S matchmaker.
- 2007 Miriam and Ray Klein Research Award for Object-Process Methodology (May 27, 2007)
- 2006 Senior Member, ACM
- 2000 Fellow, International Association for Pattern Recognition (IAPR) "***For contributions to document analysis recognition.***"
- 1999 Senior Member, IEEE
- 1999 Dudi Ben Aharon Research Award for Document Image Understanding of Engineering Drawings
- 1997 Hershel Rich Technion Innovation Award for OPCAT – Object-Process CASE (Computer-Aided Software Engineering) Tool that supports Object-Process Methodology

- 2003 The paper ERP Modeling: A Comprehensive Approach by Pnina Soffer, Boaz Golany and Dov Dori (*Information Systems* 28, 6, September 2003, pp. 673-690) was declared *the most downloaded article for the journal Information Systems over 2003*.
- 2003 Outstanding Guest Speaker Award, Learning International Networks Consortium (LINC), First LINC Conference, Cambridge, MA, Feb. 6-7, 2003
- 1995 Dashed Line Detection Contest – First Place, IAPR International Workshop on Graphics Recognition – IWGR'95. Pennsylvania State University, State College, Pennsylvania
- 1993-1995 Alexander Goldberg Academic Lectureship in Industrial Engineering and Management, Technion, Israel Institute of Technology, Haifa, Israel.

PROFESSIONAL EXPERIENCE

- 2015 – 2016 Whirlpool, St. Joseph, MI, Consultant
- 2014 Schilling Robotics, Davis, CA, Consultant
- 2010 – 2013 NGALI Holdings LTD., Kigali, Rwanda, Board Member
- 2006 – 2007 Elbit Systems, Nes Zionna, Israel, consultant
- 2006 – 2007 Israel Aircraft Industries, Ashdod, Israel, consultant
- 2005 – 2011 OPCAT Systems LTD., Founder, President, and Chief Technology Officer
- 2005 – 2010 Silverlake Group, Beijing, China; Singapore, consultant
- 2001 Pratt and Whitney Canada, Toronto, Canada, consultant
- 2000 – 2002 Systemantica, Inc., Founder, President, and Chief Technology Officer
- 2000 – 2001 Ford Motor Company, Dearborn, Michigan, USA, consultant
- 1996 – 1997 Tefen Ltd., Tel Aviv, Israel, Industrial Engineering, consultant
- 1994 – 1997 ISCAR Ltd., Israel, consultant
- 1992 – 1993 IET-Intelligent Electronics, Tel Aviv, Israel - BIRD-Foundation project, consultant
- 1978 – 1984 Israel Defense Forces, Electronics and Metal Industrial Concern – Head of Computer and Information Systems Unit; MERKAVA Tank Production Plant – Chief Industrial Engineer, last rank Major

PROFESSIONAL ACTIVITIES

International Journals – Associate Editor or Member of the Editorial Board

- 2013 – 2015 Guide to the Systems Engineering Body of Knowledge (SEBoK) and Graduate Reference Curriculum for Systems Engineering (GRCSE), Associate Editor
- 2009 – date Journal of Enterprise Transformation, Member of the Academic Advisory Board
- 2008 – date The Open Cybernetics and Systemics Journal, Member of the Editorial Board
- 2007 – date Systems Engineering, Associate Editor
- 2006 – date Enterprise Information Systems (EIS), Member of the Editorial Board
- 2003 – date International Journal of Web Engineering Technologies (IJWET), Associate Editor
- 1995 – date International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI), Member of the Editorial Board
- 1998 – 2001 IEEE Transaction on Pattern Analysis and Machine Intelligence (T-PAMI), Associate Editor
- 1997 – 2003 International Journal of Document Analysis and Recognition (IJ DAR), Associate Editor

International Journals – Guest Editor

- 2011 Innovations in Systems and Software Engineering – Special issue on "Model-based approaches and frameworks for embedded software systems", Dec. 2011 issue; Co-guest editor with João M. Fernandes <http://www.springerlink.com/content/1614-5046/8/1/>
- 2003 Communications of the ACM – Special Section on Conceptual Modeling and System Architecting
- 2000 International Journal of Document Analysis and Recognition (IJ DAR), Special Issue on Graphics Recognition
- 1999 Data and Knowledge Engineering – Special Issue on Formal Ontology and Conceptual Modeling

Membership in International Professional Societies

- International Council on Systems Engineering (INCOSE) – Fellow
 - Fellows Selection Committee (December 1, 2011 to November 30, 2014)
- Association for Computer Machinery (ACM) – Senior Member
- Institute of Electrical and Electronics Engineering (IEEE) – Senior Member

International Technical Committees

- 2014 – date Chinese national engineering research center HK branch on enterprise informatization, International expert member of the Engineering Technical Committee
- 2013 – date Co-Chair, IEEE Society on Systems, Man, and Cybernetics (SMC) [Technical Committee on Model-Based Systems Engineering](#)
- 2013 INCOSE HandbookV4 Review program committee member
- 2013 – 2014 Artifact-Centric Service Interoperability (ACSI) EU project Special Advisory Board (SAB) member
- 2011 – 2014 INCOSE Fellow Selection Committee
- 2010 – date Representative of Israel in ISO TC184/SC5 on behalf of Israel Institute of Standards as Technion Expert for ISO TC184/SC5 – Architecture, communications and integration frameworks
- 2009 – 2010 Purdue University Strategic Planning – Global Engagement Committee
- 2009 – 2010 Co-Convenor, ISO TC 184/WG5 – Study Group to Explore OPM for Modeling Standards
- 1996 – 1998 Chairperson, International Association for Pattern Recognition (IAPR) TC-2 – Technical Committee on Syntactic and Structural Pattern Recognition (SSPR)

Technion Activities

- 2012 – 2013 Member of the Technion Research Committee
- 2012 – 2013 Member of the Technion Development Committee
- 2010 – 2012 Member of the Technion Senate Preparatory Committee
- 2010 – 2011 Member of the Technion Academic Degrees Committee
- 2009 – date Head of the Enterprise Systems Modeling Laboratory, Faculty of IE&M
- 2007 – 2010 Member of the Technion Inter-Departmental Committee on Systems Engineering
- 2002 – 2006 & 2010-2011 Member of the Technion Steering Committee on Information & Communication Technology
- 1997 – 1999 Member of the Technion Committee for the Technion WWW Site

Organizing International Conferences

Chairperson /Co-Chairperson

1. MBSE'10 – International Conference on Model-Based Systems Engineering, Fairfax, VA, USA, October 2010. Sponsored by IEEE and by INCOSE – International Council on Systems Engineering
2. MBSE'09 – International Conference on Model-Based Systems Engineering, Herzeliya and Haifa, Israel, March 2-5, 2009. Sponsored by IEEE and by INCOSE
3. ICSEM'07 – International Conference on Systems Engineering and Modeling, Herzeliya and Haifa, Israel, March 20-23, 2007. Sponsored by IEEE and by INCOSE
4. INFOSCALE'07 – International Conference on Scalable Information Systems, Suzhou, China, June 6-8, 2007. Sponsored by ACM.
5. ICDAR'01 – International Conference on Document Analysis and Recognition, Seattle, Washington, USA, September 9-13, 2001. Sponsored by IAPR.
6. GREC'99 – International Workshop on Graphics Recognition, Jaipur, India, September 26-27, 1999. Sponsored by IAPR.
7. SSPR'98 – International Workshop on Syntactic Structural Pattern Recognition, Sydney, Australia, August 11-13, 1998. Sponsored by IAPR.
8. SSPR'94 – International Workshop on Syntactic Structural Pattern Recognition, Nahariyya, Israel, October 4-6, 1994. Sponsored by IAPR.

Member of the International Advisory, Program, or Organizing Committee

IEEE SMC – SMC 2016, Budapest, Hungary, Oct. 9-12, 2016. Track Chair – Model-based Systems Engineering; Member of the Program Committee.

Mod4Sim13 – *Third International Workshop on Model-driven Approaches for Simulation Engineering (Mod4Sim13)* part of the Symposium on Theory of Modeling and Simulation SCS (SpringSim 2013).

CSEER 2012 – *Conference on Systems Engineering Research*, St. Louis, Missouri. March 19-22, 2012.
Design Society – *First International Conference on Modelling and Management of Engineering Processes (MMEP 2010)*, Cambridge, United Kingdom, 19-20 July, 2010.

CAiSE – *International Conference on Advanced Information Systems Engineering*

20th CAiSE'08, Montpellier, France, 16-20 June 2008; 19th CAiSE'07, Trondheim, Norway, 11-15 June, 2007; 17th CAiSE'05, Porto, Portugal, 13-17 June, 2005.

ACM-SAC – *Symposium on Applied Computing*

22nd ACM-SAC'2007, Seoul, Korea, 11-15 March, 2007; 21st ACM-SAC'2006, Dijon, France, 23-27 April, 2006; 20th ACM-SAC'2005, Santa Fe, New Mexico, 13-17 March, 2005.

SwSTE – *International IEEE Conferences on Software - Science, Technology and Engineering, Herzeliya, Israel*

SwSTE'12, June 12-13, 2012; 4th SwSTE'10, 15-16 June, 2010; 3rd SwSTE'07, 30-31 October, 2007; 2nd SwSTE'05, 20-21 February, 2005; 1st SwSTE'03, 4-5 November, 2003.

MOMPES – *IEEE Workshop on Model-based Methodologies for Pervasive and Embedded Software*

MOMPES Series Steering Committee member, starting 2010.

MOMPES 2010, within the 25th IEEE/ACM International Conference on Automated Software Engineering, Antwerp, Belgium, 20-24 September 2010.

5th MOMPES, Vancouver, Canada, May 16, 2009, 4th MOMPES 2007, Braga, Portugal, 31 March, 2007. 3rd MOMPES 2006, Potsdam, Germany, 27-30 March, 2006; 1st MOMPES 2004, Hamilton, Toronto, Canada, 16-18 June, 2004.

ICPR – International Conference on Pattern Recognition

17th ICPR'04, England, August 23-26, 2004; 16th ICPR'02, Quebec City, Canada, August 11-15, 2002; 13th ICPR'98, Brisbane, Queensland, Australia, August 17-20, 1998.

CVPR – International Conference on Computer Vision and Pattern Recognition

CVPR'01, Hawaii, December 11-13, 2001; CVPR'99, Fort Collins, Colorado, June 23-25, 1999.

MVA – Workshop on Machine Vision Applications

MVA'02, Nara, Japan, December 11-13, 2002; MVA'00, University of Tokyo, Tokyo, Japan, November 8-30, 2000; MVA'98, Chiba, Japan, November 17-19, 1998; MVA'96, University of Tokyo, Tokyo, Japan, November 12-14, 1996; MVA'94, Kawasaki, Japan, December 13-15, 1994.

GREC – International Workshop on Graphics Recognition

GREC'01, Kingston, Ontario, Canada, September 7-8, 2001; GREC'97, Universite Nancy II, Nancy, France, August 22-23, 1997; GREC'95, Pennsylvania State University, University Park, Pennsylvania, USA, August 10-11, 1995.

ICDAR – International Conference on Document Analysis and Recognition

ICDAR'97, Ulm, Germany August 18-20, 1997; ICDAR'91, Saint Malo, France, September 30-Oct. 2, 1991.

IWVF – International Workshop on Visual Form, Capri, Italy

IWVF'01, May 28-30, 2001; IWVF'97, May 28-30, 1997.

Other conferences and workshops

- 5th AHFE International General Conference, IBM Symposium on Human Factors, Software, and Systems Engineering, Jagiellonian University, Krakow Poland, Member of the Scientific Advisory Board, July, 2014.
- Symposium on Theory of Modeling and Simulation (TMS'12), March 26-29, part of the 2012 Spring Simulation Multiconference, Orlando, FL, USA), part of the SCS SpringSim 2012 Conference (<http://www.scs.org/springsim/2012>)..
- Complex Systems Design & Management 2010, Paris, France, October 27-29, 2010.
- International Conference on Industrial Engineering and Engineering Management (IEEM2007), Singapore, December 2-5, 2007.
- 26th International Conference on Conceptual Modeling (ER 2007), New Zealand, University of Auckland, November 5-9, 2007.
- IFIP International Conference on Enterprise Information Systems (CONFENIS 2006), Vienna, Austria, April 24-26, 2006.
- 5th IAPR International Workshop on Document Analysis Systems (DAS 2002), Aug. 19-21, 2002, Princeton, New Jersey, USA.
- OMG 2nd Workshop on UML for Enterprise Applications, December 3-6, 2001, San Francisco, California, USA; 1st International Workshop on Web Document Analysis (WDA'01), Seattle, Washington USA September 8, 2001.
- ECIS – European Conference on Information Systems, Workshop on Information Systems Development: Systems, Methodologies and Tools, Vienna, Austria, July 3-5, 2000.

Invited Talks and Panels in International Conferences and Webinars

1. Object-Process Methodology: Automation systems and integration, ISO/PAS 19450:2015(en). INCOSE IW, Feb. 3, 2016 (webinar).
2. Object-Process Methodology – the new ISO 19450 Standard: Principles and MBSE Applications. ASSESS 2016 – Analysis, Simulation and Systems Engineering Software Strategies. Washington DC,

Jan. 20-22, 2016.

3. Object-Process Methodology – the new ISO 19450 Standard: Principles and MBSE Applications. Systems Design and Management Program. MIT, Cambridge, MA, Jan. 19, 2016.
4. Object-Process Methodology – the new ISO 19450 Standard: Principles and MBSE Applications. INCOSE Webinar Series, 16 December 2015.
5. Agile System Modeling and Lifecycle Engineering with Object-Process Methodology – OPM, the New ISO/PAS 19450 standard. INCOSE Enchantment (New Mexico) Chapter Webinar, Aug. 12, 2015.
6. Design your System with Object-Process Methodology – OPM, the New ISO 19450. SRI International, Princeton, NJ, USA, July 20, 2015. Invited Talk.
7. Model-Based Risk-Oriented Systems Engineering with Applications to Cyber-Physical Systems. Philadelphia Navy Yard, Philadelphia PA, USA, April 8, 2015. Invited Workshop.
8. [To Model or Not to Model? Formalizing the Conceptual Modeling Process to Benefit Engineers and Scientists](#). MIT Systems Design and Management Systems Thinking Webinar Series, Feb. 9, 2015.
9. Conceptual Modeling of the Cyber-Physical Gap with Objects and Processes: The new OPM ISO 19450 Standard. University of Texas, San Antonio, Nov. 7, 2014. Invited Talk.
10. Mirror, Mirror on the Wall – Do You See Me at All? The Cyber-Physical Gap and its Implications on Risks: Modeling Nuclear Hazards Mitigation 5th International Conference on Complex Systems Design & Management, November 12-14, 2014, Paris, France – Plenary Talk.
11. The Cyber-Physical Gap and its Implications on Risks: Modeling Nuclear Hazards Mitigation. Nuclear Engineering Seminar Series, co-sponsored by Department of Mechanical and Nuclear Engineering and Engineering Systems Program, Penn State University, October 23, 2014. Invited Talk.
12. From agile software development to agile systems development with OPM-based MBSE. INCOSE 2014, Las Vegas, June 30, 2014. Invited Talk.
13. [The Maturation of Model-Based Systems Engineering: OPM as the ISO Conceptual Modeling Language Standard](#), MIT Systems Design and Management Systems Thinking Webinar Series, June 2, 2014.
14. ISO Standardization of OPM as a basis for Model-based Standards Authoring. INCOSE Model-Based Systems Engineering Webinar Series, Aug. 18, 2011.
15. OPM as a basis for Model-based Standards Authoring Meta-Standard – ISO Draft International Standard (DIS). ISO/TC 184/SC 5 Meeting, North Redington Beach, Florida, USA, 9-13 May 2011.
16. OPCAT – An Object-Process CASE Tool for OPM-Based Conceptual Modelling. Design Society – First International Conference on Modelling and Management of Engineering Processes (MMEP 2010), Cambridge, United Kingdom, 19-20 July, 2010.
17. How does OPM improve the consistency and clarity of ISO standards? Interim report of the ISO/SC5 OPM WG. ISO/SC5 Annual Meeting, Tokyo, Japan, March 25, 2010.
18. Aligning SysML with OPM. INCOSE International Workshop – Model-Driven Systems Design WG meeting, Phoenix, AZ, USA, Feb. 8, 2010.
19. Conceptual Modeling of Enterprise Systems: Model-Based ISO Standardization Efforts. INCOSE MBSE IW Workshop, Phoenix, AZ, USA, Feb. 5-7 2010.
20. Conceptual Modeling of Biological Processes, 24th Umbrella Symposium, Juelich, Germany, Jan 20,

2010.

21. Model-Based Systems Engineering: Conceptual modeling languages and their standardization efforts, Keynote Speech, 2009 International Conference on Web Information Systems and Mining (WISM'09) and 2009 International Conference on Artificial Intelligence and Computational Intelligence (AICI'09), Shanghai, China, November 7-8, 2009.
22. Adopting Object-Process Methodology as a standard modeling language for modeling enterprise-related standards. Plenary Meeting of ISO Technical Committee 184 WG5, Paris, April 23-24, 2009.
23. Conceptual Modeling in the Service of Systems Engineering, INCOSE_IL, Herzeliya, Israel, May 15, 2006.
24. Soda, Not Just a Drink! From an Object-Centered to a Balanced Object-Process Model-Based Enterprise Systems Development. Joint Meeting of the 4th Workshop on Model-Based Development of Computer Based Systems (MBD) and 3rd International Workshop on Model-based Methodologies for Pervasive and Embedded Software (MOMPES 2006), within the 13th IEEE Int. Conf. on Engineering of Computer Based Systems (ECBS 2006), Potsdam, Germany, 27-30 March 2006.
25. Conceptual Modeling with OPM. Virtual Research Lab for Knowledge Community in Production (VRL KCiP – a Network of Excellence in the frame of the 6th FP of the European Commission) Third Video Conference, November 23, 2005.
26. Manufacturing Knowledge Mapping for Ontology Construction via Object-Process Methodology. CIRP Meeting, January 27 2005, Paris, France.
27. Modeling Alzheimer patient diagnosis and treatment with Object-Process Methodology. Sixth International Conference on Alzheimer Diagnosis and Treatment, Dalhousie University, Halifax, Nova Scotia, Canada, November 28-29, 2003.
28. Ontological Evaluation of System Modeling (Moderator, with Brian Henderson-Sellers, Andreas L. Opdahl, and Oscar Pastor – Panellists). Panel in 22nd International Conference on Conceptual Modeling (ER 2003), Chicago Illinois, October 13-16, 2003.
29. Syntactic and Semantic Graphics Recognition: The Role of the Object-Process Methodology. 3rd International Workshop on Graphics Recognition (GREC'99), Jaipur, India, 1999 (Abstract).
30. Document Analysis Systems Development and Representation through the Object-Process Methodology. DAS'98 - IAPR Workshop on Document Analysis Systems, Nagano, Japan, November 4-6, 1998.
31. Semantic Content-Based Image Retrieval Using Object-Process Diagrams. SSPR'98 - International Workshop on Syntactic Structural Pattern Recognition, Sydney, Australia, August 11-13, 1998.
32. Performance Evaluation of Graphics Recognition. Keynote Speaker - Dagstuhl Seminar on Evaluation and Validation of Computer Vision Algorithms, Schloss Dagstuhl, Saarbrücken, Germany, March 16-20, 1998.
33. Engineering Drawings Recognition. ICDAR'97 - IAPR International Conference on Document Analysis and Recognition, Ulm, Germany, August 17-20, 1997.
34. Analysis and Representation of the Image Understanding Environment Using the Object-Process Methodology. MVA'94 - IAPR Workshop on Machine Vision Applications, Kawasaki, Japan, December 13-15, 1994.

Tutorials in International Conferences

1. Model-Based Systems Engineering: Methodologies, Languages, Complexity Management, and Standardization, INCOSE International Symposium, Rome, Italy, July 7-12, 2012.

2. Model-Based Systems Engineering, The 2011 IEEE International Conference on Systems, Man, and Cybernetics (www.smc2011.org), Anchorage, Alaska, USA October 9-12, 2011 (invited).
3. Synergistic Model-Based Systems Engineering with SysML and OPM. 21st INCOSE International Symposium, Denver, CO, USA, 22 June 2011.
4. Object-Process Methodology a Formal, User-Oriented Graphic-Textual Requirements Engineering Platform. August 30, 2005, at RE 2005 – The 13th IEEE International Requirements Engineering Conference, Paris, France, August 29-September 2nd 2005.
5. Supporting Automated Systems Development with Object-Process Methodology. The 19th IEEE International Conference on Automated Software Engineering, Linz, Austria, September 20-21, 2004.
6. Object-Process Methodology and Its Application to the Visual Semantic Web. 16th Conference on Advanced Information Systems Engineering, CAiSE 2004, Riga, Latvia, June 7-11, 2004.
7. Object-Process Methodology and Its Application to the Visual Semantic Web. 22nd International Conference on Conceptual Modeling (ER 2003), Chicago Illinois, October 13-16, 2003.
8. Object-Process Methodology: Ontological Foundations and Internet Applications. 5th International Conference on Enterprise Information Systems, École Supérieure d'Électronique de l'Ouest, Angers, France, April 23-26, 2003.

Software Presentations in International Conferences

1. Arnon Sturm, Dov Dori, Iris Reinhartz-Berger, Zhenya Yaroker, Valeria Bodnya, Eran Toch, and Sergey Guenender, Developing Multi Agent Systems with OPCAT—Object-Process CASE Tool. Autonomous Agents & Multi Agents Systems (AAMAS), Columbia University, New York City, July 19-23, 2004.
2. Dov Dori, Iris Reinhartz-Berger, and Arnon Sturm, Developing Complex Systems with Object-Process Methodology using OPCAT. Industrial Presentation in Proc. 22nd International Conference on Conceptual Modeling (ER 2003), Chicago Illinois, October 13-16, 2003.
3. Dov Dori and Arnon Sturm, OPCAT - Object-Process CASE Tool - an Integrated System Engineering Environment (ISEE). OOPSLA'98 - Object-Oriented Programming, Systems, Languages and Applications. Vancouver, BC, Canada, 18-22 October 1998.
4. Dov Dori and Arnon Sturm, Integrated System Engineering Environment with OPCAT - Object-Process CASE Tool. In J. Dockx, Reflections on a Demonstration Chair, Proc. European Conference on Object Oriented Programming (ECOOP'98), July 1998.

Evaluator of Academic Programs

- 2007 – 2009 Head, Israeli Council for Higher Education (MALAG) Committee for evaluating the application of ORT Braude College to grant M.Sc. degree without thesis in Systems Engineering.
- 2006 – 2008 Head, MALAG Committee for evaluating the application of Jerusalem College of Technology to grant M.Sc. degree without thesis in Telecommunication Systems Engineering.
- 2003 – 2005 Head, MALAG Committee for evaluating the application of Emek Hayarden College to grant a B.Sc. degree in Information Systems
- 2003 – 2005 Head, MALAG Committee for evaluating the application of Braude College, Karmiel, to grant a B.Sc. degree in Information Systems

- 2003 – 2005 Member, MALAG Committee for assessing Ben Gurion University M.Sc. Program in Information Systems
- 2002 – 2007 Member, MALAG Committee for assessing Haifa University Program in Management Information Systems; appointed by the Israeli Minister of Education
- 2002 – 2006 Member, MALAG Committee for evaluating Turo College application to open an MBA program in Israel; appointed by the Israeli Minister of Education

Standardization Activities

Co-convenor of ISO Study Group to Explore OPM for Modeling Standards based on RESOLUTION 611 (PARIS 21) – OBJECT PROCESS METHODOLOGY of ISO/TC 184/SC 5 Plenary Meeting, Paris, April 23-24, 2009 (OPM Study Group initiation decision); Tokyo, March 26, 2010 (normative Draft International Standard preparation decision); North Redington Beach, FL, USA, May 12, 2011 (OPM Publicly Available Specification and DIS for Model-based standards authoring decision). Haifa, Israel, May 5-7, 2012 – Resolution 669 (HAIFA 3) – OPM PAS Publication, Frankfurt, Germany, May 12-15, 2013. Consequent activity: Drafting ISO 19450 – Object-Process Methodology Publicly Available Specification based on RESOLUTION 724 (BEIJING 3) – OPM PD-PAS SUBMISSION.

Evaluator of Grant Proposals to International and National Research Councils

- 2012 IWT – the research funding and innovation stimulation agency of the Flanders (Belgium)
- 2006 Israel Science Foundation, Professional Committee for evaluating proposals in Business Administration
- 2004 Norwegian Research Council, Outstanding Young Investigator
- 2003 – 2004 Swiss National Science Foundation, Division for Physical and Engineering Sciences
- 2000 USA National Science Foundation: Small Business Information Technology Research and Technology Transfer (SBIR)
- 1997 – 1998 European Commission Fourth Framework: Esprit – Information Technologies; Brite EuRam III – Manufacturing and Material Technologies
- 1995 – date Israeli Ministry of Science

GRADUATE STUDENTS

Completed Theses – Doctors

Designates that the former Ph.D. student is currently a faculty member at a higher education institution

1. Avigdor Gal[#] D.Sc. 1995. TALE – a Temporal Active Language and Execution Model. Primary Advisor: Dr. Opher Etzion. *Currently: Tenured Assoc. Prof., Faculty of Industrial Engineering and Management, Technion.*
2. Menachem Alon-Domb D.Sc. 1996. A Generic Framework for Definition and Implementation of Cooperative Information Systems. *Currently: Senior staff member, Amdocs, Israel.*
3. Liu Wenyin[#] D.Sc. 1998. Algorithms for 2D Engineering Drawings Recognition: Implementation and Evaluation. *Won Special Excellence Gutwirt Award 1997. Currently: faculty, City University of Hong Kong.*
4. Miri Weiss[#] D.Sc. 1998. Graph-Theoretic 3D Objects Reconstruction from 2-D Engineering Drawings. *Currently: faculty, Braude College of Engineering, Karmiel, Israel.*
5. Mor Peleg[#] Ph.D. 1999. Modeling System Dynamics through the Object-Process Methodology. *Won Wolf Prize for 1997. Currently: Tenured Senior Lecturer, Haifa University, Israel.*
6. Pnina Soffer[#] Ph.D. 2002. A Methodology for Adapting an ERP System to the Needs of an Enterprise (with Prof. Boaz Golany – Primary Advisor). *Currently: Tenure track faculty, Haifa University, Israel.*

7. Dagan Gilat Ph.D. 2003. Extending Object-Process Methodology for Simulation of Discrete Events. *Currently: Senior Manager, Business Transformation & Optimization, IBM Haifa Research Lab.*
8. Iris Reinhartz-Berger[#] Ph.D. 2003. Developing Web Applications with Object-Oriented Methods and Object-Process Methodology (with Prof. Shmuel Katz – Second Advisor). *Currently: Tenure track faculty, Haifa University, Israel.*
9. Arnon Sturm[#] Ph.D. 2004. Developing and Evaluating an Object-Process Methodology-Based Multi-Agent Systems Framework (with Dr. Onn Schori – Second Advisor). *Currently: Tenure track faculty, Ben Gurion University at the Negev, Israel.*
10. Shalom Cohen Ph.D. 2007. A multi-tier system development life cycle model for information system products with market and organizational effects. Second Advisor: Prof. Uzi de Haan.
11. Dizza Beimel[#] Ph.D. 2008. Privacy and security mechanisms in electronic health record management. Primary Advisor: Dr. Mor Peleg, Haifa University. *Currently: faculty member, Ruppin Academic Center, Emek Hefer, Israel.*
12. Avi Soffer Ph.D. 2008. Bridging information gaps in OPM-based system development. *Currently: Head of Systems Eng. Dept., Ort Braude College of Engineering, Karmiel, Israel.*
13. Eran Toch[#] Ph.D. 2008. Semantics-based autonomic implementation of information systems. Secondary Advisor: Dr. Iris Reinhartz-Berger. Won Eshkol Scholarship, 2006. *Currently: Tenure track faculty, Tel Aviv University, Israel.*
14. Amira Sharon Ph.D. 2010. A unifying model-based framework for Project and Product Lifecycle. *Currently: Senior Systems Engineer and Project Leader, Israel Aerospace Industries.*
15. Valeria Perelman Ph.D. 2012. Operational Semantics for Object-Process Methodology. *Currently: Qualcomm.*
16. Yudit Somekh Ph.D. 2013. OPM-based biological systems modeling. Secondary Advisor: Dr. Mordechai Choder. Won MOS Scholarship for Women, 2010-11.
17. Alexander Blekhman Ph.D. 2013. Model-Based Documents Authoring with Object-Process Methodology.
18. Ori Orhof Ph.D. 2015. Critical Components Analysis – A Framework for Planning Sub-project Contingencies in Large, Complex Projects.
19. Yaniv Mordecai Ph.D. 2016. Model-Based Robust Systems Engineering: Integrating Disruption into Conceptual Models of Complex Systems with Object-Process Methodology.

Completed Theses – Masters

Technion, Faculty of Industrial Engineering and Management

20. Erez Tatcher M.Sc. 1993. Selective Multiple Inheritance in Systems Analysis.
21. Gustavo Gambach M.Sc. 1994. Edge Detection and Parameter Estimation from Spine Radiographs.
22. Elena Zilberstein (Velkovitch) M.Sc. 1995. Segmentation and Recognition of Dimensioning Text from Engineering Drawings.
23. Moshe Goodman M.Sc. 1996. The Object-Process Paradigm as a Common Methodology for Analysis, Design and Implementation of Information Systems. *Won Special Excellence Guttwirt Award 1996.*
24. Inessa Vigendat M.Sc. 1998. Natural Language Processing by Examples (Primary Advisor: Prof. Uzi Ornan).
25. Uzi Avigdor M.Sc. 1998. A CAD-based Vision System for Recognition of Objects in an Automated Warehouse.
26. Arnon Sturm M.Sc. 1999. Applying an Object-Relational Database Model to OPM Analysis and

Design Results.

27. Iris Berger M.Sc. 1999. Generating Java Code from Object-Process Language Script.
28. Dizza Beimel M.Sc. 2004. OPCATeam: Distributed Object-Process CASE Tool.
29. Roman Feldman M.Sc. 2006. Designing Data Warehouses with Object Process Methodology. Second Advisor: Dr. Arnon Sturm.
30. Valeria Perelman M.Sc. 2006. Reverse Engineering of Java Code to an OPM Model.
31. Judith Somekh M.Sc. 2007. Real time and exceptions modeling with OPM. Second Advisor: Dr. Mor Peleg.
32. Galia Schlesinger M.Sc. 2007. Analyzing Object-Oriented Design Patterns from an Object-Process Viewpoint. Second Advisor: Dr. Iris Reinhartz-Berger.
33. David Amid M.Sc. 2008. OPM-based Requirements Engineering. Primary Advisor: Dr. Iris Reinhartz-Berger.
34. Yevgeny Yaroker M.Sc. 2008. Animated Simulation with Object-Process Methodology.
35. Arieh Bibliowicz M.Sc. 2008. A Graph Grammar-Based Specification of Object-Process Methodology.
36. Yariv Grobshtein M.Sc. 2008. Generating SysML Diagrams from an OPM Model.
37. Sergey Kozyrev M.Sc. 2008. Developing and Assessing a Methodology for Semantic Web-Based Virtual Expeditions. Primary Advisor: Dr. Miriam Barak.
38. Sergey Bolshchikov M.Sc. 2013. Creating a Spatio-Temporal Dynamic Model from an Object-Process Methodology Based Model
39. Aharon Renick M.Sc. 2013. Incorporating Quantitative Aspects into OPM-based Conceptual Models with MATLAB Computational Capabilities.
40. Shmuela Jacobs M.Sc. 2014. Integration of System Models into the Semantic Web: Representation of OPM Models in RDF Format.

University of Kansas, Department of Computer Science

41. Ian Chai[#] M.S. 1990. Orthogonal Zig-Zag: an Efficient Method for Extracting Straight Lines from Engineering Drawings. *Currently: Faculty at Multimedia University, Cyberjaya Selangor, Malaysia.*
42. Yubin Liang M.S. 1991. The Perpendicular Bisector Tracing Algorithm for Segmentation of Arcs in Engineering Drawings.
43. Joseph Dowell M.S. 1992. Self-Supervised Pattern Recognition for Recognition of Arrowheads in Engineering Drawings.

Massachusetts Institute of Technology, Engineering Systems Division

44. Christine Miyachi M.S. 2001. Modeling the Capability Maturity Model with Object-Process Methodology.
45. Benjamin Koo[#] M.S. 2001. Improving Product Development Capability Maturity Model (CMM) through Object Process Methodology. *Currently: Asst. Prof. at Dept. of Industrial Engineering, Tsinghua University, Beijing, China.*
46. Nathan Soderborg M.S. 2002. Representing Systems through Object-Process Methodology and Axiomatic Design.
47. Sergey Nemirovsky M.S. 2010. Systems View of Commercial Organizations' Evolution.
48. Somwang Thipphayathethana M.S. 2015. Model-Based Guidelines for User-Centric Satellite Control Software Development
49. Greg Wilmer M.S. 2015. OPM Model-Based Integration of Multiple Data Repositories

50. Juan Manuel Quezada M.S. 2015. Model-Based Guidelines for Automotive Electronic Systems Software Development
51. Jason Casebolt M.Sc. 2016. Model-based Quality Assurance Business Processes at Boeing.
52. Yongkai Eugene Yang M.Sc. 2017 (expected) Design, Development, and Evaluation of Electronic Procedures and Automation of Procedures for Astronaut Crews.

Basic Sciences for Medical Doctors

53. Ilan Atlas, MD 1993. Diet Planning for Gestational Diabetic Patients: an Algorithm and its Implementation.

Theses in Progress

Technion, Faculty of Industrial Engineering and Management

54. Arieh Bibliowicz Ph.D. Expected Graduation: 2017. An OPM-based Software Systems and Products Lifecycle Support Methodology.
55. Inbar Zigdon M.Sc. Quantifying model informativity. Expected Graduation: 2017.
56. Natali Levi (Soskin) Ph.D. Expected Graduation: 2019. Incorporating Object-Process Programming into the ISO OPM Standard.
57. Jacob Welber Ph.D. Expected Graduation: 2019. Model-Based Knowledge Management with OPM.
58. Yang Gao M.Sc. Expected Graduation: 2018. Generating Chinese OPL Text from OPDs.
59. Olga Scherichuk M.Sc. Expected Graduation: 2018.
60. Laiza Michaeli M.Sc. Expected Graduation: 2018.

SELECTED RESEARCH GRANTS

- | | |
|-------------|--|
| 2015 – 2017 | Modeling the Next Generation of White Appliances using Model-Based Systems Engineering with OPM. Whirlpool Corporation, USA, \$457,500. |
| 2015 – 2016 | Integrating Object-Process Methodology with Knowledge Based Engineering. Birmingham City University, \$35,000. |
| 2015 – 2016 | Model-Based Interoperability Engineering Framework for Systems-of-Systems with Application to Civil Aviation. Gordon Center for Systems Engineering at the Technion. \$13,000, # 2021752 till 30.7.16. |
| 2012 – 2013 | Situation-based Patient Data Privacy Management for Mobile Health Technology, Technion-Cornell joint research fund. \$30,000. |
| 2012 – 2013 | Enhancing the Project-Product Lifecycle Management Methodology with Project Classification and Risk Management. Gordon Center for Systems Engineering at the Technion. \$20,000. #2016888, till 30.6.13. |
| 2011 – 2012 | Umbrella Program between Technion Haifa, RWTH Aachen University: Modeling and Visualizing the Cell as a Framework for Systems Biology Knowledge Management. \$7,000. |
| 2011 – 2012 | Application of Model-Based Systems Engineering to Systems Biology. Gordon Center for Systems Engineering at the Technion. \$20,000, #2015117 till 30.6.12. |
| 2010 – 2013 | Modeling Autonomous Robots. Israel Aerospace Industries. \$200,000, #2014927, till 30.12.14. |
| 2011 – 2014 | EU 7th Framework: VISIONAIR: A World-class Infrastructure for Advanced 3D |

- Visualization-based Research. €78,828. Total project budget €6,500,000 #2014678.
- 2010 – 2011 Umbrella Program between Technion Haifa, RWTH Aachen University and Forschungszentrum Jülich: Conceptual Modeling and Simulation of a Minimal Organism. \$17,000.
- 2006 – 2008 OPCAT, Inc. – Development of algorithms and modules in OPM. \$33,450.
- 2005 – 2007 The Gordon Research Fund for Systems Engineering, Technion – Aligning System Requirements and Implementation by Bridging Information Gaps between System Development Stages. \$20,000.
- 2004 – 2007 EU 6th Framework: European Network of Excellence – Building knowledge driven and dynamically networked communities within European healthcare systems (COCOON) FP6 - IST-2002-507126. €172,000. Total project budget €1,700,000.
- 2004 – 2007 EU 6th Framework: European Network of Excellence – Impact of deployment of tele-procedures on government territorial services (TERREGOV). FP6 - IST-1-507749. €28,000. Total project budget €10,000,000.
- 2004 – 2007 EU 6th Framework: European Network of Excellence – Virtual Research Lab for Knowledge Community in Production (VRL-KCiP) FP6 – IST+ NMP 0000908003. Budget for 1/7/2004-30/6/2005 €182,195 (with Prof. M. Shpitalni)
- 1999 – 2001 Israeli Ministry of Industry and Trade, MAGNET Consortium on Autonomous Wafer FAB Cluster Management (WFCM) - Applying the Object-Process Methodology to manage Autonomous Wafer FAB Clusters. \$150,000.
- 1997 – 2000 Israeli Ministry of Science and the Arts. Content-Based Image Retrieval. \$250,000.
- 1994 – 1997 ISCAR Ltd., Metal Cutting Tools, Tefen, Israel. Tech. #191-207. Development of a Communication System for Managing Organizational Processes. \$94,000.
- 1994 ISCAR Ltd., Metal Cutting Tools, Tefen, Israel. Tech. #191-185. Defect Detection in Metal Cutting Tools Using Machine Vision Technology. \$7,440.

PUBLICATIONS

Theses

1. M.Sc. Optimal Nesting of Congruent Convex Figures. Advisor: Prof. Moshe Ben Bassat, Recanati School of Business Administration, Tel Aviv University, Tel Aviv, Israel, 1981.
2. Ph.D. Detection and Interpretation of Dimensions in Machine Drawings. Advisors: Prof. Amir Pnueli and Prof. Shimon Ullman, Weizmann Institute of Science, Rehovot, Israel, 1987.

Papers in Refereed Journals

1. Joseph S. Pliskin and Dov Dori, Ranking Alternative Warehouse Area Assignments: a Multiattribute Approach. *IIE Transactions*, 14, 1, pp. 19-26, 1982.
2. Dov Dori and Moshe Ben-Bassat, Circumscribing a Convex Polygon by a Polygon of Fewer Sides with Minimal Area Addition. *Computer Vision, Graphics, and Image Processing*, 24, 2, pp. 131-159, 1983.
3. Dov Dori and Moshe Ben-Bassat, Optimal Nesting of Congruent Convex Figures. *Communications of the ACM*, 27, 3, pp. 228-230, 1984.
4. Dov Dori and Amir Pnueli, The Grammar of Dimensions in Machine Drawings. *Computer Vision, Graphics, and Image Processing*, 42, pp. 1-18, 1988.
5. Dov Dori, A Syntactic/Geometric Approach to Recognition of Dimensions in Engineering Machine Drawings. *Computer Vision, Graphics, and Image Processing*, 47, pp. 271-291, 1989.
6. Dov Dori, Syntax Enhanced Parameter Learning for Recognition of Dimensions in Engineering Machine Drawings. *International Journal of Robotics and Automation*, 5, 2, pp. 59-67, 1990.
7. Dov Dori, Intelligent Automatic Dimensioning of CAD Engineering Machine Drawings. *International Journal of Robotics and Automation*, 5, 3, pp. 124-130, 1990.
8. Yehudit J. Dori, Dov Dori and Jerome M. Yochim, Characteristics of an intelligent computer assisted instruction shell with an example in human physiology. *Journal of Computers in Mathematics and Science Teaching*, 11, 3-4, pp.289-302, 1992.
9. Dov Dori, Dimensioning Analysis: a Step towards Automatic High Level Understanding of Engineering Drawings. *Communications of the ACM*, 35, 10, pp. 92-103, 1992.
10. Yehudit J. Dori, Dov Dori, and Jerome M. Yochim, Characteristics of an intelligent computer assisted instruction shell with an example in human physiology. *Journal of Computers in Mathematics and Science Teaching* 11, (3-4), pp. 289-302, 1992.
11. Dov Dori, Yubin Liang, Joseph Dowell and Ian Chai, Sparse Pixel Recognition of Primitives in Engineering Drawings. *Machine Vision and Applications*, 6, pp. 69-82, 1993.
12. Dov Dori and Erez Tatcher, Selective Multiple Inheritance. *IEEE Software*, 11, 3, pp. 77-85, May 1994.
13. Dov Dori and Erez Tatcher, Embryonic Classes: Enabling Selective Multiple Inheritance. *Journal of Object Oriented Programming*, pp. 47-51, June 1994.
14. Dov Dori, Automated Understanding of Engineering Drawings: an Object-Oriented Analysis. *Journal of Object Oriented Programming*, pp. 35-43, Sept. 1994.
15. Opher Etzion, Dov Dori and Shimon Nof, Active Coordination of CIM Multi-database System. *International Journal of Computer Integrated Manufacturing*, 8, 2, pp. 116-125, 1995.
16. Dov Dori and Karl Tombre, From Engineering Drawings to 3-D CAD Models: Are We Ready Now? *Computer Aided Design*, 27, 4, pp. 243-254, 1995.
17. Dov Dori, Object-Process Analysis: Maintaining the Balance between System Structure and Behavior. *Journal of Logic and Computation*, 5, 2, pp. 227-249, 1995.

18. Dov Dori, Representing Pattern Recognition-Embedded Systems through Object-Process Diagrams: the Case of the Machine Drawing Understanding System. *Pattern Recognition Letters*, 16, 4, pp. 377-384, 1995.
19. Dov Dori, Vector-Based Arc Segmentation in the Machine Drawing Understanding Environment. *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 17, 11, pp. 1057-1068, 1995.
20. Dov Dori and Robert M. Haralick, A Pattern Recognition Approach to Detection of Complex Edges. *Pattern Recognition Letters*, 16, 5, pp. 517-529, 1995.
21. Dov Dori and Yehudit J. Dori, Object-Process Analysis of a Hypertext Organic Chemistry Module. *Journal of Computers in Mathematics and Science Teaching*, 15(1/2), pp. 65-84, 1996.
22. Dov Dori and Miri Weiss, A Scheme for 3D Object Reconstruction from Dimensioned Orthographic Views. *Engineering Applications of Artificial Intelligence*, 9, 1, pp. 53-64, 1996.
23. Dov Dori, Avigdor Gal and Opher Etzion, A Temporal Database with Data Dependencies: a Key to Computer Integrated Manufacturing. *International Journal of Computer Integrated Manufacturing*, 9, 2, pp. 89-104, 1996.
24. Dov Dori and Moshe Goodman, On Bridging the Analysis-Design and Structure-Behavior Grand Canyons with Object Paradigms. *Report on Object Analysis and Design*, 2, 5, pp. 25-35, 1996.
25. Dov Dori, Expressing Structural Relations among Dimension-set Components Using the Object-Process Methodology. *Report on Object Analysis and Design*, 2, 6, pp. 20-24, 1996.
26. Dov Dori, Object-Process Analysis of Computer Integrated Manufacturing Documentation and Inspection. *International Journal of Computer Integrated Manufacturing*, 9, 5, pp. 339-353, 1996.
27. Dov Dori, Analysis and Representation of the Image Understanding Environment Using the Object-Process Methodology. *Journal of Object Oriented Programming*, 9, 4, pp. 30-38, 1996.
28. Dov Dori, Unifying System Structure and Behavior through Object-Process Analysis. *Journal of Object-Oriented Programming*, 9, 4, pp. 66-73, 1996.
29. Dov Dori and Moshe Goodman, From Object-Process Analysis to Object-Process Design. *Annals of Software Engineering*, 2, pp. 25-40, 1996.
30. Dov Dori, Orthogonal Zig-Zag: an Algorithm for Vectorizing Engineering Drawings Compared with Hough Transform. *Advances in Engineering Software*, 28, 1, pp. 11-24, 1997.
31. Doron Myersdorf and Dov Dori, The R&D Universe and Its Feedback Cycles: an Object-Process Analysis. *R&D Management*, 27, 4, pp. 333-344, 1997.
32. Liu Wenyin and Dov Dori, A Protocol for Performance Evaluation of Line Detection Algorithms. *Machine Vision and Applications*, 9, pp. 240-250, 1997.
33. Dov Dori and Liu Wenyin, Stepwise Recovery of Arc Segmentation in Complex Line Environments. *International Journal of Document Analysis and Recognition (IJ DAR)*, 1, 1, pp. 62-71, 1998.
34. Yehudit J. Dori, Menachem Alon and Dov Dori, Coordinating Multimedia within Groupware Applications. *International Journal of Computers and Applications*, 20, 2, 83-91, 1998.
35. Mor Peleg and Dov Dori, Representing Control Flow Constructs in Object-Process Diagrams. *Journal of Object-Oriented Programming*, 11, 3, pp. 58-71, 1998.
36. Dov Dori and Yelena Velkovitch, Segmentation and Recognition of Dimensioning Text in Engineering Drawings. *Computer Vision - Image Understanding (CVIU)*, 69, 2, pp. 196-201, 1998.

37. Liu Wenyin and Dov Dori, A Generic Integrated Line Detection Algorithm and its Object-Process Specification. *Computer Vision - Image Understanding (CVIU)*, 70, 3, pp. 420-437, 1998.
38. Liu Wenyin and Dov Dori, An Incremental Arc Segmentation Algorithm and its Evaluation. *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 20, 4, pp. 424-431, 1998.
39. Mor Peleg and Dov Dori, Extending the Object-Process Methodology to Handle Real-Time Systems. *Journal of Object-Oriented Programming*, 11, 8, pp. 53-58, 1999.
40. Dov Dori and Liu Wenyin, Sparse Pixel Vectorization Algorithm and its Performance Evaluation. *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 21, 3 pp. 202-215, 1999.
41. Liu Wenyin and Dov Dori, Object-Process Diagrams as an Explicit Algorithm Specification Tool. *Journal of Object-Oriented Programming*, 12, 2, pp. 52-59, 1999.
42. Dov Dori and Liu Wenyin, Automated CAD Conversion with the Machine Drawing Understanding System: Concepts, Algorithms, and Performance. *IEEE Transactions on Systems, Man, and Cybernetics*, 29, 4, pp. 411-416, 1999.
43. Liu Wenyin and Dov Dori, From Raster to Vectors: Extracting Visual Information from Line Drawings. *Pattern Analysis and Applications*, 2, 1, pp.10-21, 1999.
44. Liu Wenyin and Dov Dori, Object-Process Based Graphics Recognition Class Library: Principles and Applications. *Software: Practice and Experience*, 29, 15, pp. 1355-1378, 1999.
45. Mor Peleg and Dov Dori, The Model Multiplicity Problem: Experimenting with Real-Time Specification Methods. *IEEE Transaction on Software Engineering*, 26, 8, pp. 742-759, 2000.
46. Atul Chhabra, Dov Dori, and Karl Tombre, Graphics Recognition, *International Journal on Document Analysis and Recognition*, Special Issue, 3, 2, p. 57, 2000.
47. Dov Dori, Object-Process Methodology Applied to Modeling Credit Card Transactions. *Journal of Database Management*, 12, 1, pp. 2-12, 2001.
48. Pnina Soffer, Boaz Golany, Dov Dori and Yair Wand, Modeling Off-the-Shelf Information Systems Requirements: An Ontological Approach. *Requirements Engineering*, 6, pp. 183-199, 2001.
49. Hafedh Mili, Mohammed Fayad, Davide Burgali, David Hamu and Dov Dori. Enterprise Frameworks: Issues and Research Directions. *Software: Practice and Experience*, 32, 8, pp. 801-831, 2002.
50. Iris Reinhartz-Berger, Dov Dori, and Shmuel Katz, OPM/Web – Object-Process Methodology for Developing Web Applications. *Annals of Software Engineering*, 13, pp. 141–161, 2002.
51. Dov Dori, Why Significant Change in UML is Unlikely. *Communications of the ACM*, 11, pp. 82-85, Nov. 2002.
52. Pnina Soffer, Boaz Golany, and Dov Dori, ERP Modeling: A Comprehensive Approach. *Information Systems* 28, 6, pp. 673-690, 2003.
53. Dov Dori, Conceptual Modeling and System Architecting. *Communications of the ACM*, 46, 10, pp. 62-65, 2003.
54. Nathan R. Soderborg, Edward Crawley, and Dov Dori, OPM-Based System Function and Architecture: Definitions and Operational Templates. *Communications of the ACM*, 46, 10, pp. 67-72, 2003.
55. Dov Dori, ViSWeb – The Visual Semantic Web: Unifying Human and Machine Knowledge Representations with Object-Process Methodology. *The International Journal on Very Large*

- Data Bases (VLDB)*, 13, 2, pp. 120-147, 2004.
56. Iris Reinhartz-Berger, Dov Dori and Shmuel Katz, Modeling Code Mobility and Migration: An OPM/Web Approach. *International Journal of Web Engineering Technologies*, 2, 1, pp. 6-28, 2005.
 57. Iris Reinhartz-Berger and Dov Dori, OPM vs. UML: Experimenting with Comprehension and Construction of Web Application Models. *Empirical Software Engineering*, 10, 1, pp. 57-80, 2005.
 58. Dov Dori, Boaz Golany, and Pnina Soffer, Aligning an ERP System with Enterprise Requirements: An Object-Process Based Approach. *Computers in Industry*, 56, 6, pp. 639-662, 2005.
 59. Dov Dori and Moshe Shpitalni, Mapping Knowledge about Product Lifecycle Engineering for Ontology Construction via Object-Process Methodology. *CIRP Annals – Manufacturing Technology*, 54, 1, pp. 117-122, 2005.
 60. Eran Toch, Avigdor Gal, Iris Reinhartz-Berger, and Dov Dori, A Semantic Approach to Approximate Service Retrieval. *ACM Transactions on Internet Technology*, 8, 1, pp. 2:1-2:30, November 2007.
 61. Dov Dori and Mordechai Choder, Conceptual Modeling in Systems Biology Fosters Empirical Findings: The mRNA Lifecycle. *Proceedings of the Library of Science ONE (PLoS ONE)*, September 12, 2007. <http://www.plosone.org/article/info:doi%2F10.1371%2Fjournal.pone.0000872>
 62. Dov Dori, Roman Feldman, and Arnon Sturm, From conceptual models to schemata: An object-process-based data warehouse construction method. *Information Systems* 33 (6), pp. 567-593, 2008.
 63. Dov Dori, Words from Pictures for Dual Channel Processing: A Bimodal Graphics-Text Representation of Complex Systems. *Communications of the ACM*, 51(5), pp. 47-52, 2008.
 64. Dizza Beimel, Mor Peleg, Dov Dori, and Yaron Denekamp, Situation-Based Access Control: Privacy Management via Patient Data Disclosure Modeling. *Journal of Biomedical Informatics*, 41(6), Dec. pp. 1028-1040, 2008.
 65. Iris Reinhartz-Berger, Dov Dori, and Shmuel Katz, Reusing Semi-Specified Behavior Models in Systems Analysis and Design. *Journal of Software and Systems Modeling*, 8, pp. 221-234, 2009.
 66. Arnon Sturm, Dov Dori, and Onn Shehory, Application-Based Domain Analysis Approach and Its Object-Process Methodology Implementation. *International Journal of Software Engineering and Knowledge Engineering*, 18(8), 1115-1142, 2009.
 67. Mor Peleg, Judith Somekh, and Dov Dori, A Methodology for Eliciting and Modeling Exceptions. *Journal of Biomedical Informatics* 42(4), pp. 736-747, 2009.
 68. Lior Zoref, David Bregman, and Dov Dori, Networking Mobile Devices and Computers in an Intelligent Home. *International Journal of Smart Home* 3(4), pp. 15-22, October, 2009.
 69. Avi Soffer and Dov Dori, Bridging the Requirements-Implementation Modeling Gap with Object-Process Methodology. *Journal on Innovations in Systems and Software Engineering*, 5(1) pp. 27-34. 2009.
 70. Ammar Ahmed and Dov Dori Conceptual Modeling of Complex Systems via Object Process Methodology. *SAE International Journal of Passenger Cars - Electronic and Electrical Systems* 2(1) pp. 171-176, 2009. DOI: 10.4271/2009-01-0524
 71. Galia Shlezinger, Iris Reinhartz-Berger, and Dov Dori. Modeling Design Patterns for Semi-Automatic Reuse in System Design. *Journal of Database Management*, 21 (1) pp. 29-57, Jan-March 2010.

72. Arnon Sturm, Dov Dori, and Onn Shehory, An Object-Process-Based Modeling Language for Multi-Agent Systems. *IEEE Transactions on Systems, Man, and Cybernetics – Part C: Applications and Reviews*, 40 (2) pp. 227-241, 2010.
73. Shalom Cohen, Dov Dori, and Uzi de Haan, A Software System Development Life Cycle Model for Improved Stakeholders' Communication and Collaboration. *International Journal of Computers, Communications & Control*, V (1), pp. 23-44, 2010.
74. Carlos A. Osorio, Dov Dori, and Joseph Sussman, COIM: An Object-Process Based Method for Analyzing Architectures of Complex, Interconnected, Large-Scale Socio-Technical Systems. *Systems Engineering* 14(3), 2011.
75. Yariv Grobshtein and Dov Dori, Generating SysML Views from an OPM Model: Design and Evaluation. *Systems Engineering*, 14 (3), pp. 327-340, 2011.
76. Eran Toch, Iris Reinhartz-Berger, and Dov Dori, Humans, Semantics Services and Similarity: A User Study of Semantic Web Services Matching and Composition. *Web Semantics: Science, Services and Agents on the World Wide Web*. 9, pp. 16-28, 2011.
77. Amira Sharon, Dov Dori, and Olivier L. de Weck, Project Management vs. Systems Engineering Management: A Practitioners' View on Integrating the Project and Product Domains. *Systems Engineering*, 14(4), pp. 427-440, Oct. 2011.
78. Arieh Bibliowicz and Dov Dori, A Graph Grammar-Based Formal Validation of Object-Process Diagrams. *Software and Systems Modeling*, 11, (2), pp. 287-302, 2012.
79. João Miguel Fernandes and Dov Dori, Model-based Approaches and Frameworks for Embedded Software Systems. *Innovations in Systems and Software Engineering*, Foreword to Special Issue, Springer, 8(1), pp. 1-2, ISSN 1614-5046, 2012.
80. Amira Sharon, Olivier de Weck, and Dov Dori, Model-Based Design Structure Matrix: Deriving a DSM from an Object-Process Model. *Systems Engineering*, pp. 1-14, 2012.
81. Miri Barak, Sergey Kozyrev, and Dov Dori, The Use of Visual Semantic Web for Designing Virtual Expeditions. *Int. J. of Learning Technology*, Vol. 7, No. 3, pp. [297-313](#), 2012.
82. Dov Dori, Extending the human spatiotemporal comfort zone with CAVERN – Computer-based Augmented Virtual Environment for Realizing Nature. *Journal of Multidisciplinary Research*, 4(3), pp. 23-44, Fall 2012.
83. Judith Somekh, Mordechai Choder, and Dov Dori, [Conceptual Model-Based Systems Biology: Mapping Knowledge and Discovering Gaps in the mRNA Transcription Cycle](#). *PLoS ONE*, 7(12): e51430. doi:10.1371/journal.pone.0051430, Dec. 20, 2012.
84. Yevgeny Yaroker, Valeriya Perelman, and Dov Dori. An OPM Conceptual Model-Based Executable Simulation Environment: Implementation and Evaluation. *Systems Engineering*, 16(4), pp. 381-390, 2013.
85. Amira Sharon, Olivier de Weck, and Dov Dori, Improving Project-Product Lifecycle Management with Model-Based Design Structure Matrix: A joint project management and systems engineering approach. *Systems Engineering*, 16 (4), pp. 413-426, 2013.
86. Yaniv Mordecai and Dov Dori, Model-Based Risk-Oriented Robust Systems Design with Object-Process Methodology. *International Journal of Strategic Engineering Asset Management*, 1(4), pp. 331-354, 2013.
87. Amira Sharon and Dov Dori, A Project-Product Model-Based Approach to Planning Work Breakdown Structures of Complex System Projects. *IEEE Systems Journal*, 2014, Digital Object Identifier: [10.1109/JSYST.2013.2297491](#)
88. Niva Wengrowicz, Yehudit Judy Dori, and Dov Dori, [Transactional Distance in an Undergraduate Project-based Systems Modeling Course](#). *Knowledge-Based Systems* 71, pp. 41-

51, 2014.

89. Judith Somekh, Gal Haimovich, Adi Guterman, Dov Dori, and Mordechai Choder, Conceptual Modeling of mRNA Decay Provokes New Hypotheses. PLOS ONE, Sept. 2014. [PLoS ONE 9\(9\): e107085. doi:10.1371/journal.pone.0107085](https://doi.org/10.1371/journal.pone.0107085).
90. Juan Wachs, Boaz Frenkel, and Dov Dori, Operation Room Tool Handling and Miscommunication Scenarios: An Object-Process Methodology Conceptual Model. *Artificial Intelligence in Medicine*, 62(3) pp. 153-163, 2014.
91. Dov Dori and Somwang Thipphayathethana, Model-Based Guidelines for User-Centric Satellite Control Software Development. *International Journal of Satellite Communications and Networking*, 2015. Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/sat.1123.
92. Sergey Bolshchikov, Judith Somekh, Shay Mazor, Niva Wengrowicz, Mordechai Choder, and Dov Dori, Cognition-Based Visualization of Conceptual Models: The Vivid OPM Scene Player. *Systems Engineering*, 18 (5), pp.431-440, 2015.
93. Dov Dori, Aharon Renick, and Niva Wengrowicz, When Quantitative Meets Qualitative: Enhancing OPM Conceptual Systems Modeling with MATLAB Computational Capabilities. *Research in Engineering Design*, 2015 ([early view](#)).
94. Amira Sharon, Olivier de Weck and Dov Dori, Teaching and Assessing Project-Product Lifecycle Management and Gantt Chart Models to Systems Engineers: A Comparative Study. Submitted for publication, 2014.
95. Alex Blekhman, Juan P. Wachs, Dov Dori, Model-Based System Specification with Tesperanto: Readable Text from Formal Graphics. *IEEE SMC: Systems*, 45(11) pp. 1448-1458, 2015.
96. Niva Wengrowicz, Yehudit Judy Dori, and Dov Dori, Student-Oriented Meta-Assessment in a Project-Based Systems Engineering Course. *Assessment and Evaluation in Higher Education* <http://dx.doi.org/10.1080/02602938.2016.1173648>, 2016.
97. Uri Shani, Shmuela Jacobs, Niva Wengrowicz, and Dov Dori, Engaging ontologies to break MBSE tools boundaries through semantic mediation. *Systems Engineering*, 2016 (accepted as is from submission to CSER 2016).
98. Yaniv Mordecai, Ori Orhof, and Dov Dori, A Conceptual Modeling Framework for Interconnectivity and Interoperability. *IEEE Transactions On Systems, Man, and Cybernetics: Systems 1*, 2016. <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7571127>

USPTO Patent

99. Dov Dori, Modeling System, US Patent and Trademark Office, number [7,099,809](#), Filed: March 15, 2001. Granted: August 29, 2006. <http://www.google.com/patents/US20070050180>

ISO Standard

100. [ISO/PAS 19450](#) Automation systems and integration – Object-Process Methodology

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92. Alex Blekhman and Dov Dori, Model-Based Requirements Authoring: Creating Explicit Specifications with OPM. Programming Languages and Software Engineering (PLSE) Seminar, IBM HRL, Haifa, Israel, Nov. 12, 2012.
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 99. Ori Orhof, Aaron Shenhar, and Dov Dori, A Model-Based Approach to Unifying Disparate Project Management Tools for Project Classification and Customized Management. Proc. 23rd Annual INCOSE International Symposium, Philadelphia, PA, USA, June 24-27, 2013.
 100. Alex Blekhman and Dov Dori, Tesperanto – A Model-Based System Specification Methodology and Language. Proc. 23rd Annual INCOSE International Symposium, Philadelphia, PA, USA, June 24-27, 2013.
 101. Arieh Bibliowicz and Dov Dori, Creating Domain-Specific Modeling Languages with OPM/D: A Meta-modeling approach. Proc. ICSOFT-PT 2013 International Conference on Software Paradigm Trends, Reykjavík, Iceland, July 29-31, 2013.
 102. Niva Wengrowicz, Yehudit Judy Dori and Dov Dori, Peer- and Meta-Assessment in a Project-Based Large Systems Engineering Course. 39th International Association for Educational Assessment Annual Conference, Tel Aviv, Israel, October 20-25, 2013.
 103. Yaniv Mordecai, Craig Chapman, and Dov Dori, Conceptual Modeling Semantics for the Physical-Informational Essence Duality Problem. IEEE International Conference on Systems, Man, and Cybernetics, Manchester, UK, October 13-16, 2013.
 104. Yaniv Mordecai, Pathmeswaran Raju, Craig Chapman, and Dov Dori, Physical-Informational Essence-Duality-Aware Generic Modeling of Threat Handling Processes. 7th European Modelling Symposium (EMS2013), Manchester, UK, November 20-22, 2013.
 105. Alex Blekhman and Dov Dori, Model-Based Documents Authoring with Object-Process Methodology (OPM). Proc. 7th ILAIS Conference, Ruppin Academic Center, Israel July 1, 2013.
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 107. Yaniv Mordecai and Dov Dori, Model-based Incorporation of Automated Decision-Making into Cyber-Physical Information Systems. 18th Industrial Engineering and Management Conference,

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109. Niva Wengrowicz, Yehudit Judy Dori, and Dov Dori, OPM-UML Clarity and Understandability Comparison: Assessment of Large Scale Project-based System Engineering Courses. NARST Annual Conference, Pittsburgh, PA, USA, March 30 – April 2, 2014.
110. Niva Wengrowicz, Yehudit Judy Dori, Dale Baker, and Dov Dori, Large Scale Assessment in Engineering Courses Using Multiple Approaches. Paper to be presented at the National Science Teachers Association (NSTA) National Conference, Boston, MA, USA, April 3-6, 2014.
111. Bhim Prasad Upadhyaya, Arieh Bibliowicz, and Dov Dori, Enhancing the Scrum Agile Method with Object-Process Methodology, 23rd Australasian Software Engineering Conference, Sydney, Australia, April 7-10, 2014.
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113. Yaniv Mordecai, Ori Orhof, and Dov Dori, Modeling Software Agent Awareness of Physical-Informatical Essence Duality. Proc. SwSTE'14, Tel Aviv, Israel, June 2014.
114. Shmuela Jacobs, Niva Wengrowicz, and Dov Dori, Defining Object-Process Methodology in Web Ontology Language for Semantic Mediation. Proc. SwSTE'14, Tel Aviv, Israel, June 2014.
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117. Yaniv Mordecai, Judith Somekh, and Dov Dori, Presence-Awareness: A Conceptual Model-Based Systems Biology Approach. Proc. 2014 IEEE International Conference on Systems, Man, and Cybernetics, San Diego, CA, USA, Oct. 5-8, 2014.
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119. Shmuela Jacobs, Niva Wengrowicz, and Dov Dori, Translating OPM System Models to RDF Format for Their Integration into the Semantic Web. Proc. 2014 IEEE International Conference on Systems, Man, and Cybernetics, San Diego, CA, USA, Oct. 5-8, 2014.
120. James Brucato and Dov Dori, The Minimal Ontology Principle: Philosophical Foundations of OPM-Based Modelling and Simulation. Intl. Conf. on Knowledge Engineering and Ontology Development (KEOD), Rome, Italy, October 22-24, 2014.
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122. Niva Wengrowicz, Yehudit Judy Dori, and Dov Dori, Student-Oriented Meta-Assessment in a Project-Based Systems Engineering Course. NARST Annual International Conference, Chicago, IL, USA, April 11-14, 2015 (abstract).
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126. Yaniv Mordecai and Dov Dori, Cyber-Physical Risk Analysis with Object-Process Methodology: Three-Mile Island Accident Revisited. Society for Risk Analysis World Congress on Risk, Singapore, July 19-23, 2015. International Symposium for Next Generation Infrastructure, Washington, D.C., September 14 - 15, 2015 (abstract).
127. Frederick Noel and Dov Dori, A 3D visualization paradigm for better handling PLM contents. 12th International Conference on Product Lifecycle Management, Doha (Qatar), Oct. 19-21, 2015.
128. Yaniv Mordecai, Amira Sharon, and Dov Dori, Towards a Model-Based Systems Engineering Paradigm for Emerging Unmanned and Autonomous Vehicles and Systems. The International Conference on Unmanned Vehicles, Tel Aviv, Israel, 9-10 Nov. 2015.
129. Niva Wengrowicz, William Swart, Kenneth MacLeod, Ravi Paul, Dov Dori, and Yehudit Judy Dori, Relationship between Students' Collaborative Learning Attitudes and their Satisfaction with an Online Collaborative Case-Based Course. NARST 2016 Annual International Conference, Baltimore, MD, April 14-17, 2016.
130. Yaniv Mordecai and Dov Dori, Model-Based Operational-Functional Unified Specification for Mission Systems. 2016 Annual IEEE Systems Conference (SysCon), Orlando, FL, April 18-21, 2016.
131. Uri Shani, Shmuela Jacobs, Niva Wengrowicz, and Dov Dori, Engaging ontologies to break MBSE tools boundaries through semantic mediation. CSER 2016, Huntsville, AL, March 22-24, 2016. Accepted for publication in Systems Engineering, 2016.
132. Daryl Farber, Yaniv Mordecai, Dov Dori, and Martin Pietrucha, A Systems Analysis of Interdependent Infrastructure among the Built Environment, Energy, and Transportation Systems in the Philadelphia Metropolitan Region. CESUN 2016, June 27-29, 2016, Washington, DC, USA.
133. Yaniv Mordecai and Dov Dori, Towards a Quantitative Framework for Evaluating the Expressive Power of Conceptual System Models. INCOSE International Symposium, 18-21 July, 2016, Edinburgh, UK.
134. Jason Casebolt and Dov Dori, Business Process Improvement Using Object-Process Methodology, CESUN 2016, June 27-29, 2016, Washington, DC, USA.
135. Rea Lavi, Yehudit Judy Dori, and Dov Dori, Implementing an International Standard for Manufacturing System Lifecycle Management using Object-Process Methodology. SwSTE 2016, June 23-24, Beer Sheva, Israel.

Reports to ISO – International Organization for Standardization

1. Dov Dori, Alex Blekhman, David Howes, and Richard Martin, Object Process Methodology Study Group — Interim Report 2010. Working document ISO/TC 184/SC 5 N1070, March 26, 2010.
2. Richard Martin and Dov Dori, Report on Activities of ISO/TC 184/SC 5/OPM Study Group Final Report. Working document ISO/TC 184/SC 5 N 1113, May 12, 2011.

Invited Talks, Tutorials, Webinars, and Panels in International Conferences

3. Object-Process Methodology – the new ISO 19450 Standard: Principles and MBSE Applications. INCOSE Webinar Series, December 16, 2015.
4. Conceptual Modeling of the Cyber-Physical Gap with Objects and Processes: The new OPM ISO 19450 Standard. University of Texas, San Antonio, Nov. 7, 2014.
5. Mirror, Mirror on the Wall – Do You See Me at All? The Cyber-Physical Gap and its Implications on Risks: Modeling Nuclear Hazards Mitigation. Nuclear Engineering Seminar Series, Penn State Department of Mechanical and Nuclear Engineering, Oct. 23, 2014.
6. Why Must System-of-Systems Engineering be Model-Based? The 14th International Symposium on Manufacturing and Systems Engineering, Kona, Big Island of Hawaii, August 2014 (WAC 2014), Aug. 3-7 2014.
7. Systems Engineering and Software Engineering: A Workshop to Explore Their Interrelationship June 12-13, 2014, Hoboken, NJ. Stevens Institute of Technology, Co-sponsored by International Council on Systems Engineering (INCOSE) and Systems Engineering Research Center (SERC).
8. The maturation of Model-Based Systems Engineering: OPM as the ISO conceptual modeling language standard. MIT SDM Webinar, June 2, 2014.
9. Model-Based Systems Engineering: Methodologies, Languages, Complexity Management, and Standardization, The 22nd Annual INCOSE International Symposium (IS 2012), Rome, Italy, 8 to 12 July 2012.
10. Managing complexity with OPM. MIT, Engineering Systems Division, Feb. 14, 2012.
11. Modeling Processes and Objects with OPM: Principles, Applications, and ISO Standardization. UMass Amherst, Feb. 6, 2012.
12. ISO Standardization of OPM as a basis for Model-based Standards Authoring. INCOSE MBSE Webinar Series, Aug. 18, 2011.
13. Dov Dori and Judith Somekh, An OPM Framework for Model-Based Systems Biology. The 25th Umbrella Symposium & the German-Israeli forum for Science and Technology, RWTH University Aachen, Aachen, Germany, June 26-30, 2011.
14. Complexity Management via OPM Built-In Mechanism: Theory & Practice. Presentation at the Innovative Approaches & Researches for Managing Complexity, Gordon Center for Systems Engineering, Technion, Haifa, Israel, July 5, 2011.
15. OPM as a basis for the Model-based Standards Authoring Meta-standard – ISO Draft International Standard, ISO TC184/SC5 Annual Meeting, North Redington Beach, FL, USA, May 12, 2011.
16. Aligning SysML with OPM. INCOSE IW Workshop – Model-Driven Systems Design WG Meeting, Phoenix, AZ, USA, Feb. 8, 2010.
17. Conceptual Modeling of Enterprise Systems: Model-Based ISO Standardization Efforts. INCOSE MBSE International Workshop, Phoenix, AZ, USA, Feb. 5-7 2010.
18. Model-Based Systems Engineering: Conceptual modeling languages and their standardization efforts. Keynote Speech, [WISM-AICI 2009](#), the 2009 International Conference on Web Information Systems and Mining (WISM'09) and the 2009 International Conference on Artificial Intelligence and Computational Intelligence (AICI'09), Shanghai, China, 7-8 November 2009.
19. Object- and Process-Based Conceptual Modeling of Complex Systems. Quality and Innovation Research Centre, Department of Industrial & Systems Engineering, Faculty of Engineering, National University of Singapore and IEEE Engineering Management Society Singapore Chapter Joint Seminar, Singapore, July 11, 2007.

20. SODA: Not Just a Drink! From an Object-Centered to a Balanced Object-Process Model-Based Enterprise Systems Development. Workshop on Model-based Methodologies for Pervasive and Embedded Software (MOMPES 2006), within the 13th IEEE Int. Conf. on Engineering of Computer Based Systems (ECBS 2006), Potsdam, Germany, March 27-30, 2006.
21. Manufacturing Knowledge Mapping for Ontology Construction via Object-Process Methodology. CIRP Meeting, Paris, France, January 27, 2005.
22. Dov Dori (Moderator), Brian Henderson-Sellers, Andreas L. Opdahl, and Oscar Pastor (Panelists). Ontological Evaluation of System Modeling. Panel in 22nd International Conference on Conceptual Modeling (ER 2003), Chicago Illinois, October 13-16, 2003.
23. Syntactic and Semantic Graphics Recognition: The Role of the Object-Process Methodology. 3rd International Workshop on Graphics Recognition (GREC'99), Jaipur, India, 1999.
24. Document Analysis Systems Development and Representation through the Object-Process Methodology. DAS'98 – IAPR Workshop on Document Analysis Systems, Nagano, Japan, November 4-6, 1998.
25. Semantic Content-Based Image Retrieval Using Object-Process Diagrams. International Workshop on Syntactic Structural Pattern Recognition, Sydney, Australia, August 11-13, 1998.
26. Performance Evaluation of Graphics Recognition. Keynote Speaker, Dagstuhl Seminar on Evaluation and Validation of Computer Vision Algorithms, Schloss Dagstuhl, Saarbrücken, Germany, March 16-20, 1998.
27. Engineering Drawings Recognition. ICDAR'97 – IAPR International Conference on Document Analysis and Recognition, Ulm, Germany, August 17-20, 1997.
28. Analysis and Representation of the Image Understanding Environment Using the Object-Process Methodology. MVA'94 – IAPR Workshop on Machine Vision Applications, Kawasaki, Japan, December 13-15, 1994.

Tutorials in International Conferences and Professional Courses

29. Model-Based Systems Engineering: Methodologies, Languages, Complexity Management, and Standardization. 22nd INCOSE International Symposium, Rome, Italy, July 8-12, 2012.
30. Model-Based Systems Engineering. The 2011 IEEE International Conference on Systems, Man, and Cybernetics, Anchorage, Alaska, USA, October 9-12, 2011 (invited).
31. Synergistic Model-Based Systems Engineering with SysML and OPM. 21st INCOSE International Symposium, Denver, CO, USA, June 19-15, 2011.
32. SysML and its Enhancement via Object-Process Methodology, TOOLS-EUROPE 2008 – 46th International Conference on Objects, Models, Components, Patterns, Zurich, 30 June - 4 July, 2008.
33. Dov Dori and Edward Crawley, Systems Architecture and Lifecycle Design: Principles, Models, Tools & Applications [6.18s], Professional Education Programs, School of Engineering, MIT, July 2014, July 2013, July 2012, July 25-29, 2011, July 26-30, 2010, July 27-31, 2009, July 28 - Aug. 1, 2008, July 23-27, 2007, July 10-14, 2006, August 1-5, 2005.
34. Object-Process Methodology: a Formal, User-Oriented Graphic-Textual Requirements Engineering Platform. August 30, 2005, at RE 2005 – The 13th IEEE International Requirements Engineering Conference, Paris, France, August 29-September 2nd 2005.
35. Supporting Automated Systems Development with Object-Process Methodology. The 19th IEEE International Conference on Automated Software Engineering, Linz, Austria, September 20-21, 2004.
36. Object-Process Methodology and Its Application to the Visual Semantic Web. 16th Conference on Advanced Information Systems Engineering, CAiSE 2004, Riga, Latvia, June 7-11, 2004.

37. Object-Process Methodology and Its Application to the Visual Semantic Web. 22nd International Conference on Conceptual Modeling (ER 2003), Chicago Illinois, October 13-16, 2003.
38. Systems Development with UML and Object-Process Methodology. Professional Education Programs, School of Engineering, MIT, July 14-17, 2003.
39. Object-Oriented Engineering of Web Services and Semantic Net [6.40s]. Professional Education Programs, School of Engineering, MIT, July 28 - August 1, 2003.
40. Object-Process Methodology: Ontological Foundations and Internet Applications. 5th International Conference on Enterprise Information Systems, École Supérieure d'Électronique de l'Ouest, Angers, France, April 23-26, 2003.
41. Dov Dori and Liu Wenyin, Engineering Drawings Understanding and CAD Conversion (EDUCAD2001) ICDAR'01, Seattle, WA, USA, September 10, 2001.
42. Dov Dori and Liu Wenyin, Engineering Drawings Recognition. International Conference on Document Analysis and Recognition ICDAR'97, Ulm, Germany, August 18, 1997.