

## Dov Dori

### 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. 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.
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 Miri Weiss, [A Scheme for 3D Object Reconstruction from Dimensioned Orthographic Views](#). *Engineering Applications of Artificial Intelligence*, 9, 1, pp. 53-64, 1996.
  22. 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.
  23. 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.
  24. 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.
  25. Dov Dori, [Object-Process Analysis of Computer Integrated Manufacturing Documentation and Inspection](#). *International Journal of Computer Integrated Manufacturing*, 9, 5, pp. 339-353, 1996.
  26. 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.
27. Dov Dori, Unifying System Structure and Behavior through Object-Process Analysis. *Journal of Object-Oriented Programming*, 9, 4, pp. 66-73, 1996.
  28. Dov Dori and Moshe Goodman, From Object-Process Analysis to Object-Process Design. *Annals of Software Engineering*, 2, pp. 25-40.1996.
  29. 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.
  30. Doron Meyersdorf and Dov Dori, [The R&D Universe and Its Feedback Cycles: an Object-Process Analysis](#). *R&D Management*, 27, 4, pp. 333-344, 1997.
  31. Liu Wenyin and Dov Dori, [A Protocol for Performance Evaluation of Line Detection Algorithms](#). *Machine Vision and Applications*, 9, pp. 240-250, 1997.
  32. Dori, Y.J.; Alon, M.; Dori, D. [Coordinating multimedia within groupware applications](#). *International Journal of Computers & Applications*, 20, 2, pp. 83-91, 1998.
  33. Dov Dori and Liu Wenyin, [Stepwise Recovery of Arc Segmentation in Complex Line Environments](#). *International Journal of Document Analysis and Recognition (IJDAR)*, 1, 1, pp.62-71, 1998.
  34. Mor Peleg and Dov Dori, Representing Control Flow Constructs in Object-Process Diagrams. *Journal of Object-Oriented Programming*, 11, 3, pp. 58-71, 1998.
  35. 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.
  36. 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.
  37. 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.
  38. 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.
  39. 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.
  40. 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.
  41. 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.
  42. 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.

43. 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.
44. 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.
45. Atul Chhabra, Dov Dori, and Karl Tombre, [Graphics Recognition](#), *International Journal on Document Analysis and Recognition*, Special Issue, 3, 2, p. 57, 2000.
46. Dov Dori, [Object-Process Methodology Applied to Modeling Credit Card Transactions](#). *Journal of Database Management*, 12, 1, pp. 2-12, 2001.
47. 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.
48. 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.
49. 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.
50. Dov Dori, [Why Significant Change in UML is Unlikely](#). *Communications of the ACM*, pp. 82-85, Nov. 2002.
51. Pnina Soffer, Boaz Golany and Dov Dori, [ERP Modeling: A Comprehensive Approach](#). *Information Systems* 28, 6, September 2003, pp. 673-690.
52. Dov Dori, [Conceptual Modeling and System Architecting](#). *Communications of the ACM*, 46, 10, pp. 62-65, 2003.
53. 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.
54. 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*, 13, 2, pp. 120-147, 2004.
55. Iris Reinhartz-Berger, Dov Dori and Shmuel Katz, Modeling Code Mobility and Migration: An OPM/Web Approach. *International Journal of Web Engineering Technologies (IJWET)* 2, 1, pp. 6-28, 2005.
56. 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.
57. 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.

58. Dov Dori and Moshe Shpitalni, Mapping Knowledge about Product Lifecycle Engineering for Ontology Construction via Object-Process Methodology. *Annals of the CIRP* 54, 1, pp. 117-122, 2005.

## Books

### *Published*

59. Dov Dori, [Object-Process Methodology - A Holistic Systems Paradigm](#), Springer Verlag, Berlin, Heidelberg, New York, 2002 (ISBN 3-540-65471-2; Foreword by Edward Crawley. Hard cover, 453 pages, with CD-ROM).
60. Atul Chhabra and Dov Dori, (Eds.), [Graphics Recognition: Recent Advances](#). Third International Workshop, GREC'99 Jaipur, India, September 26-27, 1999: Selected Papers. *Lecture Notes in Computer Science*, 1941, 2000 (ISBN 3-540-41222. Soft cover, 346 pages).
61. *Graphics Recognition: Algorithms and Systems*. Second International Workshop, GREC'97, Nancy, France, August 1997: Selected Papers.
62. Adnan Amin, Dov Dori, Pavel Pudil, Herbert Freeman (Eds.), [Advances in Pattern Recognition](#), Joint IAPR International Workshops, SSPR'98 and SPR'98, Sydney, Australia, August 11-13, *Lecture Notes in Computer Science*, 1451, 1998 (ISSN 0302-9743; Soft cover, 1047 pages).
63. Dov Dori and Alfred Bruckstein (Eds.), *Shape, Structure and Pattern Recognition*. World Scientific Co. Pte. Ltd., Singapore, 1995 (ISBN 981-02-2239-4. Hard cover, 442 pages).

### *In preparation*

64. Dov Dori, *XML and Beyond: The Visual Semantic Web*. Springer Verlag, Berlin, Heidelberg, New York, 2005 (350 pages, forthcoming).

## Chapters in Handbooks and Encyclopedia

65. Dov Dori, David Doermann, Christian Shin, Robert Haralick, Ihsin Phillips, Mitchell Buckman, and David Ross, The Representation of Document Structure: An Object-Process Analysis. In [Handbook of Character Recognition and Document Image Analysis](#), H. Bunke and P.S.P. Wang (Eds.), World Scientific, Singapore, pp. 421-456, 1997.
66. Karl Tombre and Dov Dori, Interpretation of Engineering Drawings. In [Handbook of Character Recognition and Document Image Analysis](#), H. Bunke and P.S.P. Wang (Eds.), World Scientific Publishing Company, Singapore, pp. 456-484, 1997.
67. Arnon Sturm, Dov Dori, and Onn Shehory, A Comparative Evaluation of Agent-Oriented Methodologies. In *Methodologies and Software Engineering for Agent Systems*, The Agent-Oriented Software Engineering Handbook Series: Multiagent Systems, Artificial Societies, and Simulated Organizations, Vol. 11, F. Bergenti, M. P. Gleizes, and F. Zambonelli (Eds.), Kluwer, 2004.
68. Dov Dori, Object-Process Methodology and Its Applications to Image Processing and Pattern Recognition. In *Handbook of Pattern Recognition and Computer Vision*, C.H. Chen and P.S.P. Wang (Eds.), World Scientific Publishing Company, Singapore, pp. 559-

582, 2005.

69. Dov Dori, Modeling Knowledge with Graphics and Text Using Object-Process Methodology. In *Encyclopedia of Knowledge Management*, D. Swartz, (Ed.), Idea Group, Hershey, PA, 2006.

### Book Chapters

70. Dov Dori, Self-Structural Syntax Directed Pattern Recognition of Dimensioning Components in Engineering Drawings. In *Structured Document Image Analysis*, H. Baird, H. Bunke and K. Yamamoto (Eds.), Springer Verlag, Heidelberg, pp. 359-384, 1992.
71. Patrick S. P. Wang and Dov Dori, Line Drawings, Feature Extraction, and Symbol Recognition. In *Structured Document Image Analysis*, H. Baird, H. Bunke and K. Yamamoto (Eds.), Springer Verlag, Heidelberg, pp. 568-569, 1992.
72. Ian Chai and Dov Dori, Orthogonal Zig-Zag: An Efficient Method for Extracting Straight Lines from Engineering Drawings. In *Visual Form*, C. Arcelli, L.P. Cordella, and G. Sanniti di Baja (Eds.), Plenum Press, New York and London, pp. 127-136, 1992.
73. Dov Dori, Gustavo Gambach and Robert M. Haralick, From Pixels to Edges in Medical Radiographs: a Pattern Recognition Approach to Edge Detection. In *Aspects of Visual Form Processing*, C. Arcelli, L.P. Cordella and G. Sanniti di Baja (Eds.), World Scientific, Singapore, pp. 168-177, 1994.
74. Robert M. Haralick, M.Y. Jaisimha and Dov Dori, Quantitative Performance Evaluation of Thinning Algorithms in the Presence of Noise. In *Aspects of Visual Form Processing*, C. Arcelli, L.P. Cordella and G. Sanniti di Baja (Eds.), World Scientific, Singapore, pp. 261-285, 1994.
75. Miri Weiss and Dov Dori, Variational Geometry as a Tool for Validation of Recognized 2D Views in Engineering Drawings. In *Structure and Syntax in Pattern Recognition*, D. Dori and A. Bruckstein (Eds.), World Scientific, Singapore, pp. 416-431, 1995.
76. Dov Dori, Yelena Velkovitch, and Liu Wenyin, Object-Process Based Segmentation and Recognition of ANSI and ISO Standard Dimensioning Texts. In *Graphics Recognition: Methods and Application*. Rangachar Kasturi and Karl Tombre (Eds.), Lecture Notes in Computer Science, 1072, pp. 212-232, 1996.
77. Dov Dori, Liu Wenyin and Mor Peleg, [How to Win a Dashed Line Detection Contest](#). In *Graphics Recognition: Methods and Applications*. R. Kasturi and K. Tombre (Eds.), Lecture Notes in Computer Science, 1072, pp. 286-300, 1996.
78. Dov Dori and Gladys Monagan, Understanding Engineering Drawings and Maps: Research Status and Open Problems - Summary Report. In *Graphics Recognition: Methods and Application*. R. Kasturi and K. Tombre (Eds.), Lecture Notes in Computer Science, 1072, pp. 306-308, 1996.
79. Dov Dori and Liu Wenyin, Vector-Based Segmentation of Text Connected to Graphics in Engineering Drawing. In *Advances in Structural and Syntactic Pattern Recognition*, P. Perner, P. Wang and A. Rosenfeld (Eds.), Lecture Notes in Computer Science, 1121, pp. 322-331, 1996.

80. Miri Weiss and Dov Dori, Automatic Resolution of Object Features from Engineering Drawings for 3D Reconstruction. In *Advances in Structural and Syntactic Pattern Recognition*, P. Perner, P. Wang and A. Rosenfeld (Eds.), Lecture Notes in Computer Science, 1121, pp. 332-340, 1996.
81. Dov Dori, Arc Segmentation in the Machine Drawing Understanding System Environment. In *Document Analysis Systems*, A.L. Spitz and A. Dengel (Eds.), World Scientific, Singapore, pp. 338-362, 1996.
82. Miri Weiss and Dov Dori, A Graph-Theoretic Approach to Reconstruction of 3D Objects from 2D Engineering Drawings. In *Advances in Visual Form Analysis*, C. Arcelli, L.P. Cordella, and G.S. di Baja (Eds.), World Scientific, Singapore, pp. 634-645, 1997.
83. Liu Wenyin and Dov Dori, Automated CAD Conversion with the Machine Drawing Understanding System. In *Document Analysis Systems II*, J.J. Hull and S.L. Taylor (Eds.), World Scientific, Singapore, 1997.
84. Liu Wenyin and Dov Dori, Genericity in Graphics Recognition Algorithms. In *Graphics Recognition: Algorithms and Systems*, K. Tombre and A. K. Chhabra (Eds.), Lecture Notes in Computer Science, 1389, pp. 9-18, 1998.
85. Liu Wenyin and Dov Dori, A Proposed Scheme for Performance Evaluation of Graphics/Text Separation Algorithms. In *Graphics Recognition: Algorithms and Systems*, K. Tombre and A. K. Chhabra (Eds.), Lecture Notes in Computer Science, 1389, pp. 359-371, 1998.
86. Karl Tombre, Atul Chhabra, Robert Haralick, Theo Pavlidis, Arnold Smeulders, Dov Dori, Ihsin Phillips, Rangachar Kasturi, Dorothea Blostein, George Nagy, Liu Wenyin, Graphics Recognition: Algorithms and Systems: General Conclusions. In *Graphics Recognition: Algorithms and Systems*, K. Tombre and A. K. Chhabra (Eds.), Lecture Notes in Computer Science, 1389, pp. 411-420, 1998.
87. Dov Dori and Hagit Hel-Or, Semantic Content-Based Image Retrieval Using Object-Process Diagrams. In *Advances in Pattern Recognition*, A. Amin, D. Dori, P. Pudil, and H. Freeman (Eds.), Lecture Notes in Computer Science, 1451, pp. 230-241, 1998.
88. Liu Wenyin and Dov Dori: A Survey of Non-thinning Based Vectorization Methods. In *Advances in Pattern Recognition*, A. Amin, D. Dori, P. Pudil and H. Freeman (Eds.), Lecture Notes in Computer Science, 1451, pp. 15-30, 1998.
89. Dov Dori and Arnon Sturm, [Integrated System Engineering Environment with OPCAT - Object-Process Case Tool](#). Lecture Notes in Computer Science, 1543, pp. 539-540, 1998.
90. Liu Wenyin and Dov Dori, [A Framework for Graphics Recognition](#). In *Implementing Application Frameworks: Object-Oriented Frameworks at Work*, M. Fayad, D. Schmidt, and R. Johnson (Eds.), John Wiley & Sons, Hoboken, NJ, pp. 541-553, 1999.
91. Dov Dori and Arnon Sturm, OPCAT—Object-Process Case Tool: an Integrated System Engineering Environment (ISEE), Lecture Notes in Computer Science, 1543, pp 555-556, 1998.
92. Mor Peleg and Dov Dori, From Object-Process Diagrams to Natural Object-Process

- Language. In *Next generation Information Technologies and Systems*. R.Y. Pinter and S. Tsur (Eds.), Lecture Notes in Computer Science, 1649, pp. 221-228, 1999.
93. Dov Dori, [Document Analysis Systems Development and Representation through the Object-Process Methodology](#). *Document Analysis Systems*, S.W. Lee and Y. Nakano (Eds.), Lecture Notes in Computer Science, 1655, Springer, pp. 271-282 1999.
  94. Dov Dori, Syntactic and Semantic Graphics Recognition: The Role of the Object-Process Methodology, [Lecture Notes in Computer Science, 1941](#), Springer, p. 277, 2000.
  95. Liu Wenyin and Dov Dori, Principles of Constructing a Performance Evaluation Protocol for Graphics Recognition Algorithms. In *Performance Characterization and Evaluation of Computer Vision Algorithms*. R. Klette, S. Stiehl, M. Viergever, and K. Vincken, Kluwer, Amsterdam, pp. 97-106, 2000.
  96. Dov Dori, [Syntactic and Semantic Graphics Recognition: The Role of the Object-Process Methodology](#), In A. Chhabra and D. Dori (Eds.), *Graphics Recognition: Recent Advances*, Lecture Notes in Computer Science (1941), 2000.
  97. Liu Wenyin, Wang Xiaoyu, Tang Long, and Dov Dori, [Impact of Sparse Pixel Vectorization Algorithm Parameters on Line Segmentation](#). In A. Chhabra and D. Dori, (Eds.), *Graphics Recognition: Recent Advances*. Lecture Notes in Computer Science, 1941, pp.335-343, 2000.
  98. Liu Wenyin, Zhang Liang and Dov Dori, [Cost Evaluation of Interactively Correcting Recognized Engineering Drawings](#). In A. Chhabra and D. Dori, (Eds.), *Graphics Recognition: Recent Advances*. Lecture Notes in Computer Science, 1941, pp. 329-334, 2000.
  99. Liu Wenyin, Jian Zhai, and Dov Dori, [Extended Summary of the Arc Segmentation Contest](#), *Lecture Notes in Computer Science*, 2390, pp. 343-349, 2002.
  100. Dov Dori, Object-Process Methodology Applied to Modeling Credit Card Transactions. In [Advanced Topics in Database Research](#), K. Siau (Ed.), Idea Group Publishing, Hershey, PA, pp. 87-105, 2002.
  101. Dov Dori and Iris Reinhartz-Berger, [An OPM-Based Metamodel of System Development Process](#). Conceptual Modeling – ER 2003, Lecture Notes in Computer Science (2813), pp. 105-117, 2003.
  102. Dov Dori, Iris Reinhartz-Berger, and Arnon Sturm, [Developing Complex Systems with Object-Process Methodology using OPCAT](#). Conceptual Modeling – ER 2003. Lecture Notes in Computer Science (2813), pp. 570-572, 2003.
  103. Dov Dori, Nahum Korda, Avi Soffer, and Shalom Cohen, SMART: System Model Acquisition from Requirements Text. In J. Desel, B. Pernici, and M. Weske (Eds.): BPM 2004, LNCS 3080, pp. 179-194, 2004.
  104. Dov Dori, Dizza Beimel, and Eran Toch, OPCATeam – Collaborative Business Process Modeling with OPM. In J.Desel, B. Pernici, and M. Weske (Eds.): BPM 2004, LNCS 3080, pp.66-81, 2004.
  105. Iris Reinhartz-Berger and Dov Dori, A Reflective Metamodel of Object-Process Methodology: The System Modeling Building Blocks. In P. Green and M. Rosemann (Eds.):

Business Systems Analysis with Ontologies. Idea Group, Hershey, PA, 2005 (in press).

106. Emanuele Della Valle, Nahum Korda, Stefano Ceri, and Dov Dori, Gluing Web Services through Semantics: The COCOON Project. Lecture Series on Computer and Computational Sciences, VSP International Science Publishers, AH Zeist, The Netherlands, Volume 1, 2004, pp. 1-3, 2004.

#### Refereed Papers in Conference Proceedings

1. Dov Dori, Preprocessing of Engineering Drawings for 3D Reconstruction, *Proc. IEEE First International Conference on Systems Integration (ICSI '90)*, Morristown, New Jersey, pp. 284-292, 1990.
2. Dov Dori and James R. Miller, Dynamic 3-D Visualization of Dimensions and Tolerances on Solid Modelers Using ANSI Standard, The 1990 ASME Design Technical Conferences—16th Design Automation Conference, Chicago, Illinois, 1990. In *Advances in Design Automation 1990, Volume One: Computer Aided and Computational Design*, DE-Vol. 23-1 The American Society of Mechanical Engineers, New York, New York, pp. 137-141, 1990.
3. Dov Dori, Self Structural Syntax Directed Pattern Recognition of Dimensioning Components in Engineering Drawings, *Pre-proceedings, International Association for Pattern Recognition (IAPR) Workshop on Syntactic and Structural Pattern Recognition (SSPR 90)*, Murray Hill, New Jersey, pp. 88-112, 1990.
4. Dov Dori, Matrix Based Symbolic Description of Annotation in Engineering Drawings, *Proc. IEEE/IAPR First International Conference on Document Analysis and Recognition (ICDAR'91)*, Saint Malo, France, pp. 1000-1010, 1991.
5. Ian Chai and Dov Dori, Extraction of Text Boxes from Engineering Drawings, *Proc. Society of Photo-Optical Instrumentation Engineers (SPIE)*, The International Society for Optical Engineering Society for Imaging Science and Technology (IS&T) Symposium on Electronic Imaging Science and Technology, Conference on Character Recognition and Digitizer Technologies, San Jose, California, SPIE Vol. 1661, pp. 38-49, 1992.
6. Dov Dori, Adam I. Harris, Gustavo Gambach, and Robert M. Haralick, Radiographs as Medical Documents: Automating Standard Measurements. *Proc. 2<sup>nd</sup> International Conference on Document Analysis and Recognition (ICDAR'93)*, Tsukuba Science City, Japan, IEEE Computer Society Press, pp. 282-285, 1993.
7. M. Y. Jaisimha, Robert M. Haralick and Dov Dori, A Methodology for The Characterization of the Performance of Thinning Algorithms. *Proc. 2<sup>nd</sup> International Conference on Document Analysis and Recognition (ICDAR'93)*, Tsukuba Science City, Japan, IEEE Computer Society Press, pp. 282-285, 1993.
8. Ihsin. T. Phillips, J. Ha, R. M. Haralick and D. Dori, The Implementation Methodology for the CD-ROM English Document Database, *Proc. 2<sup>nd</sup> International Conference on Document Analysis and Recognition (ICDAR'93)*, Tsukuba Science City, Japan, IEEE Computer Society Press, pp. 484-487, 1993.
9. Dov Dori and Karl Tombre, Paper Drawings to 3-D CAD: a Proposed Agenda, *Proc. 2<sup>nd</sup>*

*International Conference on Document Analysis and Recognition (ICDAR'93)*, Tsukuba Science City, Japan, IEEE Computer Society Press, pp. 282-285, 1993.

10. Yehudit J. Dori and Dov Dori, [Object-process analysis of intelligent computer assisted instruction shell: the polymer courseware-a case in point](#). *Proc. ED-MEDIA 94 - World Conference on Educational Multimedia and Hypermedia*, 25-30 June 1994, Vancouver, BC, Canada, pp. 172-177, 1994.
11. Dov Dori, Menachem Alon, and Yehudit J. Dori, [Team Training Shell: a groupware, multimedia supported application generator](#). *Proc. ED-MEDIA 94 - World Conference on Educational Multimedia and Hypermedia*, 25-30 June 1994, Vancouver, BC, Canada, pp. 166-171, 1994.
12. Yehudit J. Dori, Dov Dori, and Jerome M. Yochim, [Multimedia-supported intelligent computer assisted instruction: a spatial journey into the brain](#). *Proc. ED-MEDIA 94 - World Conference on Educational Multimedia and Hypermedia*, 25-30 June 1994, Vancouver, BC, Canada, pp. 160-165, 1994.
13. M. Y. Jaisimha, Robert M. Haralick and Dov Dori, Quantitative Performance Evaluation of Thinning Algorithms under Noisy Conditions. *Proc. IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR'94)*, pp. 678-683, 1994.
14. Dov Dori, Arc Segmentation in the Machine Drawing Understanding System Environment, *Proc. IAPR Document Analysis Systems workshop (DAS'94)*, Deches Forschungszentrum fur Kunstliche Intelligenz (DFKI), Kaiserslautern, Germany, pp. 367-380, 1994.
15. Dov Dori, Representing Dimensioning Annotation in Engineering Drawings Using Flat Matrix Grammar. *Proc. 4<sup>th</sup> Annual Symposium on Document Analysis and Information Retrieval*, University of Nevada, Las Vegas, Nevada, USA, pp. 513-524, 1995.
16. Dov Dori and Yelena Velkovitch, Segmentation and Recognition of Text from Engineering Drawings. *Pre-proceedings IAPR International Workshop on Graphics Recognition*, The Pennsylvania State University, University Park, Pennsylvania, USA, pp. 141-150, 1995.
17. Liu Wenyin, Dov Dori, Tang Zesheng and Tang Long, Object Recognition in Engineering Drawings Using Planar Position Indexing, *Pre-proceedings IAPR International Workshop on Graphics Recognition*, The Pennsylvania State University, University Park, Pennsylvania, USA, pp. 53-61, 1995.
18. Tapas Kanungo, Robert M. Haralick and Dov Dori, Engineering Drawing Understanding: A Survey. *Pre-proceedings IAPR International Workshop on Graphics Recognition*, The Pennsylvania State University, University Park, Pennsylvania, USA, pp. 119-130, 1995.
19. Miri Weiss and Dov Dori, A Scheme for 3D Object Reconstruction from Dimensioned Orthographic Views. *Proc. 3<sup>rd</sup> International Conference on Document Analysis and Recognition (ICDAR'95)*, Montreal, Canada, pp. 335-338, 1995.
20. Dov Dori, The Object-Process Methodology: Merging Process- and Object-Oriented Approaches. 7th Israeli National Seminar on Computing Systems and Engineering Infrastructure for the Information Superhighway++ Tel-Aviv, November 10, 1995.

## Abstract

21. Avigdor Gal and Dov Dori, Combining Simultaneous Values and Temporal Data Dependencies. *Proc. TIME'96—Third International Workshop on Temporal Representation and Reasoning*, L. Chittaro, S. Goodwin, H. Hamilton and A. Montanari (Eds.), IEEE Computer Society Press, Los Alamitos, California, USA, pp. 112-119, 1996.
22. D. Dori, A. Fisher, D. Fichtner, D. Spath, and T. Windmuller, Prerequisites for CAD/CAM-Software to Support Supplier-Integration and Life-Cycle Engineering. *Proc. CIEME - The Computer-Integrated Extended Manufacturing Enterprise*, F.-L Krause, K. Preiss, M. Shpitalni and A. Shtub (Eds.), Agility Forum, Haifa and Herzlia, Israel, pp. 42-53, 1996.
23. Liu Wenyin and Dov Dori, The Machine Drawing Understanding System: Incorporating Paper Drawings into CAD Environments. *Proc. CIEME - The Computer-Integrated Extended Manufacturing Enterprise*, F.-L Krause, K. Preiss, M. Shpitalni and A. Shtub (Eds.), Agility Forum, Haifa and Herzlia, pp. 59-69, 1996.
24. Liu Wenyin and Dov Dori, Sparse Pixel Tracking: A Fast Vectorization Algorithm Applied to Engineering Drawings. *Proc. 13<sup>th</sup> ICPR'96*, Technical University, Vienna, Austria, IEEE Computer Society Press, Los Alamitos, CA, USA, pp. 808-812, 1996.
25. Miri Weiss and Dov Dori, Automatic Resolution of Object Features from Engineering Drawings for 3D Reconstruction. SSPR'96 – International Workshop on Syntactic and Structural Pattern Recognition, Leipzig, Germany. (See Book Chapters: *Advances in Structural and Syntactical Pattern Recognition*, Lecture Notes in Computer Science, 1121, P. Perner and P. Wang (Eds.), pp. 332-340, 1996.
26. Dov Dori, Object-Process Methodology: The Analysis Phase. *Proc. TOOLS USA'96—Technology of Object-Oriented Languages and Systems*, Santa Barbara, CA, Prentice Hall, 1996.
27. Liu Wenyin and Dov Dori, Automated CAD Conversion with the Machine Drawing Understanding System. *Proc. 2<sup>nd</sup> IAPR Workshop on Document Analysis Systems (DAS'96)*, Malvern, PA, USA, pp. 241-259, 1996.
28. Doron Myersdorf and Dov Dori, System Analysis of the R&D Domain through the Object-Process Methodology, *Proc. 5<sup>th</sup> Workshop on Specification of Behavioral Semantics*. H. Kilov and V.J. Harvey, (Eds.), Inst. for Information Management, Robert Morris College, Moon Township, PA, USA, pp. 103-114, 1996 (Part of *OOPSLA'96 - ACM 11<sup>th</sup> Annual Conference on Object-Oriented Programming Systems, Languages, and Applications*, San Jose, CA, 1996).
29. Dov Dori, David Hubanks, and Liu Wenyin, Improving the Arc Detection Method in the Machine Drawing Understanding System. In *Document Recognition IV - Proc. SPIE'97*, L.M. Vincent and J.J. Hull (Eds.), SPIE Vol. 3027, San Jose, CA, pp. 124-134, 1997.
30. Miri Weiss and Dov Dori, A Graph Theoretic Approach to the Reconstruction of 3D Objects From Engineering Drawings, *Proc. 3<sup>rd</sup> International Workshop on Visual Form (IWVF3)*, Capri, Italy, 1997.
31. Liu Wenyin and Dov Dori, Extending Object-Process Diagrams with Control Structures.

*Proc. 3<sup>rd</sup> International Conference of Next Generation Information Technologies (NGITS'97)*, Kiryat Anavim, June 30-July 7, pp. 207-214, 1997.

32. Dov Dori and Liu Wenyin, Arc Segmentation from Complex Line Environments: Vector-Based Stepwise Recovery Algorithm. *Proc. 4<sup>th</sup> International Conference on Document Analysis and Recognition (ICDAR'97)*, Ulm, Germany, pp. 76-80, 1997.
33. Liu Wenyin and Dov Dori, A Protocol for Performance Evaluation of Algorithm for Text Segmentation from Graphics-Rich Documents, *Proc. IAPR International Workshop on Graphics Recognition (IWGR'97)*, University of Nancy II, Nancy, France, pp. 317-324, 1997.
34. Liu Wenyin and Dov Dori, Generic Graphic Recognition of Engineering Drawing Objects, *Proc. IAPR International Workshop on Graphics Recognition (GREC'97)*, University of Nancy II, Nancy, France, pp. 70-77, 1997.
35. Miri Weiss and Dov Dori, A Graph Theoretic Approach to the Reconstruction of 3D Objects from Engineering Drawings, *Proc. IAPR International Workshop on Graphics Recognition (GREC'97)*, University of Nancy II, Nancy, France, 1997.
36. Mor Peleg and Dov Dori, Specifying Reactive Systems through the Object-Process Methodology. *Proc. IEEE International Conference and Workshop: Engineering of Computer Based Systems (ECBS'98)*, Jerusalem, Israel, pp. 29-36, 1998.
37. Dov Dori, Dagan Gilat, Arnon Sturm, Iris Berger, Victor Gindin, and Yaniv Even-Hayim, Integrated Systems Engineering Environment through the Object-Process CASE Tool. *Proc. INFORMS'98*, Tel-Aviv, Israel, 1998.
38. Dov Dori and Arnon Sturm: OPCAT - Object-Process Case Tool: an Integrated System Engineering Environment (ISEE). *Proc. ECOOP Workshops*, pp. 555-556, 1998.
39. Dov Dori, Object-Process Methodology - A Paradigm Shift in Dynamic Enterprise Modeling. *Proc. 2<sup>nd</sup> Penn State - Technion IE Research Conference*, Technion, Haifa, Israel, 1998.
40. Liu Wenyin and Dov Dori, Performance Evaluation of Graphics Recognition Algorithms: Principles and Applications. *Proc. 14<sup>th</sup> IAPR International Conference for Pattern Recognition (ICPR'98)*, Brisbane, Australia, Volume II, pp. 1180-1182, 1998.
41. Dov Dori, Document Analysis Systems Development and Representation through the Object-Process Methodology. *Proc. DAS'98 - 3<sup>rd</sup> IAPR Workshop on Document Analysis Systems (DAS'98)*, Nagano, Japan, pp. 290-301, 1998.
42. Dov Dori, Syntactic and Semantic Graphics Recognition: The Role of the Object-Process Methodology. *Proc. 3<sup>rd</sup> International Workshop on Graphics Recognition (GREC)*, Jaipur, India, pp. 269-278, 1999.
43. Liu Wenyin, Wang Xiaoyu, Tang Long, and D. Dori, Impact of Sparse Pixel Vectorization Algorithm Parameters on Line Segmentation Performance, *Proc. 3<sup>rd</sup> IAPR Workshop on Graphics Recognition (GREC)*, Jaipur, India, pp. 323-330, Sep. 1999.
44. Liu Wenyin, Zhang Liang, Tang Long, and Dov Dori, Cost Evaluation of Interactively Correcting Recognized Engineering Drawings, *Proceedings of the 3<sup>rd</sup> IAPR Workshop on Graphics Recognition (GREC)*, Jaipur, India, pp. 335-340, Sep. 1999.

45. Mor Peleg and Dov Dori, [Experimenting with Real-Time Specification Methods: The Model Multiplicity Problem](#). *Proc. 4<sup>th</sup> CAiSE/ IFIP8.1 International Workshop on Evaluation of Modeling Methods in Systems Analysis and Design (EMMSAD)*, 1999.
46. Liu Wenyin, Wang Xiaoyu, Tang Long and Dov Dori, [Impact of Sparse Pixel Vectorization Algorithm Parameters on Line Segmentation Performance](#). *Proc. 3<sup>rd</sup> International Workshop on Graphics Recognition (GREC'99)*, Jaipur, India, pp. 323-330, 1999.
47. Mor Peleg and Dov Dori: From [Object-Process Diagrams to a Natural Object-Process Language](#). *Proc. Next Generation Information Technologies and Systems, 4th International Workshop (NGITS)*, Zikhron-Yaakov, Israel, July 5-7, 1999, pp. 221-228, 1999.
48. Dov Dori, Cognitive Image Retrieval, *Proc. 15<sup>th</sup> International Conference on Pattern Recognition (ICPR)*, Barcelona, Spain, Sept. 3-7, 2000, Volume 1 - Computer Vision and Image Analysis, pp. 42-45, 2000.
49. Dov Dori, Ray Chou, Thomson David, Benjamin Koo, Christine Miyachi, Nathan Soderborg and Thomas Speller, [Object-Process Methodology as an Industry Enterprise Framework](#). *Proc. OOPSLA 2000 Workshop on Enterprise Frameworks - ACM 15<sup>th</sup> Annual Conference on Object-Oriented Programming Systems, Languages, and Applications*, Minneapolis, MN, 2000. University of Lincoln Nebraska UNL-CSE-2000-515.
50. Iris Reinhartz-Berger, Dov Dori, and Shmuel Katz, Developing Web Applications with OPM/Web. *Proc. 1st International Workshop on Data Integration over the Web (DIWeb)*, Interlaken, Switzerland, pp. 47-61, 2001.
51. Liu Wenyin and Dov Dori, [The Arc Segmentation Contest](#), *Proc. Fourth IAPR International Workshop on Graphics Recognition*, Kingston, Ontario, Canada, pp. 500-502, 2001.
52. Dov Dori, [Documenting System Specifications through OPM with Web-Based Graphics/Text Equivalence: the Case of the Free Flight System](#). *Proc. 1<sup>st</sup> International Workshop on Web Document Analysis*, Seattle, Washington, pp. 55-59, 2001.
53. Liu Wenyin, Jian Zhai, Dov Dori, and Tang Long, [A System for Performance Evaluation of Arc Segmentation Algorithms](#). *CVPR Workshop on Empirical Evaluation Methods in Computer Vision, Kauai, Hawaii*, 2001.
54. Nathan Soderborg, Edward Crawley and Dov Dori, [System Definition for Axiomatic Design Aided by Object-Process Methodology](#). *Proc. 2<sup>nd</sup> International Conference on Axiomatic Design (ICAD 2002)*, pp. 134-140, Cambridge, MA, USA.
55. Iris Reinhartz-Berger, Dov Dori, and Shmuel Katz, [Modeling Code Mobility Paradigms in OPM/Web](#), *The Israeli Workshop on Programming Languages & Development Environments*, July 1, 2002, Haifa, Israel.
56. Iris Reinhartz-Berger, Arnon Sturm and Dov Dori, [Modeling Events in Object-Process Methodology and in Statecharts](#), *The Israeli Workshop on Programming Languages & Development Environments*, July 1, 2002, Haifa, Israel.

57. Iris Reinhartz-Berger, Dov Dori, and Shmuel Katz, Open Reuse of Component Designs in OPM/Web. *Proc. IEEE 26<sup>th</sup> Annual International Computer Software and Applications Conference (COMPSAC 2002)*, pp. 19-26, August, 2002.
58. Dov Dori and Edward Crawley, Towards a Common Computational Synthesis Framework with Object-Process Methodology. *2003 AAAI Spring Symposium Series: Computational Synthesis: From Basic Building Blocks to High Level Functionality*, Stanford University, Stanford, CA, March 23-27, 2003. Technical Report SS-03-02, Lipson, H., Antonson, E.K., and Koza, J. (Eds.), AAAI Press, American Association for Artificial Intelligence, Menlo Park, CA, pp. 52-58, 2003.
59. Dov Dori, Iris Reinhartz-Berger, and Arnon Sturm, OPCAT – A Bimodal CASE Tool for Object-Process Based System Development. *Proc. IEEE/ACM 5th International Conference on Enterprise Information Systems (ICEIS 2003)*, École Supérieure d'Électronique de l'Ouest, Angers, France, pp. 286-291, April 23-26, 2003.
60. Arnon Sturm, Dov Dori, and Onn Shehory, [Single-Model Method for Specifying Multi-Agent Systems](#). *2nd International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2003)*. Melbourne, Australia, pp. 121-128, July 2003.
61. Jian Zhai, Liu Wenyin, Dov Dori, and Qing Li. [A Line Drawings Degradation Model for Performance Characterization](#). *Proc. 7th International Conference on Document Analysis and Recognition (ICDAR 2003)*, Edinburgh, Scotland, pp. 1020-1025, 3-6 August 2003.
62. Dov Dori, [Object-Process Methodology as a basis for the Visual Semantic Web](#). *Proc. 14th International Conference on Database and Expert Systems Applications (DEXA 2003)*, IEEE Computer Society Press, IEEE International Workshop on Web Semantics ([WebS 2003](#)), Prague, Czech Republic, pp. 617-621, Sept. 1-5, 2003.
63. Dov Dori, The Visual Semantic Web: Unifying Human and Machine Semantic Web Representations with Object-Process Methodology. In Isabel F. Cruz, Vipul Kashyap, Stefan Decker, Rainer Eckstein (Eds.): Proceedings of [SWDB'03, The First International Workshop on Semantic Web and Databases](#), Co-located with [VLDB 2003](#), Humboldt-Universität, Berlin, Germany, pp. 415-433, Aug. 2003.
64. Dov Dori and Iris Reinhartz-Berger, An OPM-Based Metamodel of System Development Process. *Proc. 22nd International Conference on Conceptual Modeling (ER 2003)*, pp. 105-117, Chicago Illinois, October 13-16, 2003.
65. Dov Dori, Iris Reinhartz-Berger, and Arnon Sturm, Developing Complex Systems with Object-Process Methodology Using OPCAT. *Proc. 22nd International Conference on Conceptual Modeling (ER 2003)*, pp. 570-572, Chicago Illinois, October 13-16, 2003.
66. Eran Toch, Dov Dori, and Iris Reinhartz-Berger, OPM/S: Semantic Information Systems Engineering Using OPM. *Proc. IEEE International Conference on Software Science, Technology, and Engineering (SwESTE'03)*, Herzelia, Israel, November 4-5, 2003.
67. Dizza Beimel, Dov Dori, and Eran Toch, Refinement-Based Architecture of OPCATeam – Collaborative System Modeling with OPM. *Proc. IEEE International Conference on Software Science, Technology, and Engineering (SwESTE'03)*, Herzelia, November 4-5, Israel.

68. Avi Soffer and Dov Dori, Realizing OPM Philosophy in the Context of Full Lifecycle Support. *Proc. IEEE International Conference on Software Science, Technology, and Engineering (SwESTE'03)*, Herzelia, Israel, November 4-5, 2003.
69. Dov Dori, Dizza Beimel, and Eran Toch, OPCATeam – Collaborative Business Process Modeling with OPM. *Business Process Modeling (BPM 2004)*, Potsdam, Germany, June 17-18, 2004.
70. Dov Dori, Nahum Korda, Avi Soffer, and Shalom Cohen, SMART: System Model Acquisition from Requirements Text. *Business Process Modeling (BPM 2004)*, Potsdam, Germany, June 17-18, 2004.
71. Iris Reinhartz-Berger and Dov Dori, Object-Process Methodology (OPM) vs. UML - a Code Generation Perspective. *Proc. 4<sup>th</sup> CAiSE/IFIP8.1 International Workshop on Evaluation of Modeling Methods in Systems Analysis and Design (EMMSAD'04)* Riga, Latvia, June 7-8, 2004.
72. Benjamin Koo, A-P Hurd, David Loda, Dov Dori<sup>1</sup>, and Edward F. Crawley, Architecting Systems under Uncertainty with Object-Process Networks. *Proc. International Conference on Complex Systems (ICCS'04)*, Boston, MA, USA, May 16-21, 2004.
73. Dov Dori, Eran Toch, and Iris Reinhartz-Berger, Modeling Semantic Web Services with OPM/S – A Human and Machine-Interpretable Language. Third International Workshop on Web Dynamics, WWW 2004, New York, May 18, 2004.
74. Emanuele Della Valle, Nahum Korda, Stefano Ceri, and Dov Dori Gluing Web Services through Semantics: The COCOON Project. *Proc. European Society of Computational Methods in Sciences and Engineering (ESCMCE)*, Vuoliagmeni, Kavouri, Greece, 19-23 November 2004.
75. Arnon Sturm, Dov Dori, and Onn Shehory, Specifying Communication Aspects in Multi-Agent Systems using OPM/MAS. Second European Workshop on Multi-Agent Systems Barcelona, Spain 16-17th December 2004.
76. Emanuele Della Valle, Nahum Korda, Stefano Ceri, and Dov Dori. Gluing web services through semantics: The COCOON project. Proceedings of International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Attica, Greece, 19-23 November 2004.
77. Dov Dori, Valeria Perelman, Galia Shlezinger and Iris Reinhartz-Berger, Pattern-Based Design Recovery from Object-Oriented Languages to Object Process Methodology. *Proc. IEEE International Conference on Software Science, Technology, and Engineering (SwESTE'05)*, Herzelia, Israel, 2005.
78. Dov Dori, Roman Feldman, and Arnon Sturm, An OPM-based Method for Transformation of Operational System Model to Data Warehouse Model. *Proc. IEEE International Conference on Software Science, Technology, and Engineering (SwESTE'05)*, Herzelia, Israel, 2005.
79. Dov Dori, Roman Feldman, and Arnon Sturm, Constructing a Data Warehouse Model from an Operational System Model. *Proc. IEEE International Conference on Software Science, Technology, and Engineering (SwESTE'05)*, Herzelia, Israel, 2005.

80. Dov Dori and Moshe Shpitalni, Manufacturing Knowledge Mapping for Ontology Construction via Object-Process Methodology. 2005 CIRP General Assembly, Antalya, Turkey, CIRP Annals, Vol. 54/1, 21-27 August 2005 (to appear).
81. Eran Toch, Avigdor Gal and Dov Dori, Automatically Grounding Semantically-enriched Conceptual Models to Concrete Web Services. 24<sup>th</sup> International Conference on Conceptual Modeling (ER2005), Klagenfurt, Austria, August 24-28, 2005.
82. Dov Dori, Modeling Complex Systems with Object-Process Methodology. 3rd Israeli Conference on Systems Engineering, INCOSE\_IL, Herzliya, Israel, Sept. 20-21, 2005.
83. Arnon Sturm, Dov Dori, and Onn Shehory, Domain Modeling With Object-Process Methodology. Eighth International Conference on Enterprise Information Systems, Paphos, Cyprus, 23-27 May, 2006.

#### Invited Talks and Panels in International Conferences

1. Dov Dori, What does it really take to evolve model-based systems? 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
2. Dov Dori, 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.
3. Dov Dori, Manufacturing Knowledge Mapping for Ontology Construction via Object-Process Methodology. CIRP Meeting, January 27 2005, Paris, France.
4. Dov Dori, 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.
5. 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.
6. Dov Dori, Syntactic and Semantic Graphics Recognition: The Role of the Object-Process Methodology. 3<sup>rd</sup> International Workshop on Graphics Recognition (GREC'99), Jaipur, India, 1999.
7. 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.
8. Semantic Content-Based Image Retrieval Using Object-Process Diagrams. SSPR'98 - International Workshop on Syntactic Structural Pattern Recognition, Sydney, Australia, August 11-13, 1998.

9. 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.
10. Engineering Drawings Recognition. ICDAR'97 – IAPR International Conference on Document Analysis and Recognition, Ulm, Germany, August 17-20, 1997.
11. 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. Dov Dori, [Object-Process Methodology a Formal, User-Oriented Graphic-Textual Requirements Engineering Platform](#). August 30, 2005, at [RE 2005](#) – The 13<sup>th</sup> IEEE International Requirements Engineering Conference, Paris, France, August 29-September 2<sup>nd</sup> 2005.
2. Dov Dori, [Supporting Automated Systems Development with Object-Process Methodology](#). The [19th IEEE International Conference on Automated Software Engineering](#), Linz, Austria, September 20-21, 2004.
3. Dov Dori, 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.
4. Dov Dori, [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.
5. Dov Dori, [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.
6. Dov Dori and Liu Wenyin, Engineering Drawings Recognition. International Conference on Document Analysis and Recognition [ICDAR'97](#), Ulm, Germany, August 18, 1997.
7. Dov Dori and Liu Wenyin, Engineering Drawings Understanding and CAD Conversion ([EDUCAD2001](#)) [ICDAR'01](#), Seattle, WA, USA, September 10, 2001.

#### Software Presentations in International Conferences

8. Dov Dori and Raanan Manor, OPM-based Conceptual Modeling of Systems with OPCAT. IBM HRL Programming Languages & Development Environments Seminar, Haifa, Israel, November 30, 2005.
9. 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.
10. 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.

11. 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.
12. 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.

#### Patent

[Modeling system](#), USA, submitted to US Patent and Trademark Office, Document Number 20020038206, March 28, 2002.