

CURRICULUM VITAE

Dr. Mati Golani

August, 2014

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EDUCATION

Ph.D. 2005, Information Management Engineering. Faculty of Industrial Engineering and Management, The Technion – Israel Institute of Technology, Haifa, Israel

M.Sc. 1998, Information Management Engineering. Faculty of Industrial Engineering and Management, The Technion – Israel Institute of Technology, Haifa, Israel

B.Sc. 1991, Chemical Engineering. Faculty of Chemical Engineering, The Technion – Israel Institute of Technology, Haifa, Israel

RESEARCH INTERESTS

- Business process modeling,
- Business process exception handling,
- Pattern recognition,
- Process mining
- Software design
- Bioinformatics

ACADEMIC EXPERIENCE

2010 – present	Senior Lecturer, ORT Braude College, Department of Software Engineering
2012 – 2014	Head, Information Systems Program. ORT Braude College
2006 – 2010	Lecturer, ORT Braude College, Department of Software Engineering
2004	Adjunct Lecturer, ORT Braude College, Department of Software Engineering, Department of Industrial Engineering and Management
1996 – 1999	Assistant, Technion – Israel Institute of Technology, Faculty of Industrial Engineering and Management

PROFESSIONAL EXPERIENCE

1998 – current	Owner - Shani – System Analysis, Consulting and Development, Israel
2000 – 2004	Research staff member - IBM – Haifa Research Laboratories, Israel
1993 – 1996	Process Engineer – Dor Chemical LTD, Haifa, Israel
1992 - 1993	Production and IT Manager – Kenitex, Israel

TEACHING EXPERIENCE

ORT Braude College of Engineering:

Graduate Courses:

Software Engineering:

Advanced topics in Database Engineering
Supervision in Final Project

Undergraduate Courses:

Object Oriented Programming (A development of a new course)
Database Management Systems (A development of a new course)
Laboratory in Software Engineering (A development of a new course)
Distributed Databases (A development of a new course)
Final Project in Information Systems

The Technion–Israel Institute of Technology

Undergraduate Courses:

Specification and Analysis of Information Systems
Design and Implementation of Information Systems
Supervision of Final Project in Information Systems

Graduate Courses:

Database Engineering
Distributed Databases

ACADEMIC AND PROFESSIONAL AWARDS AND GRANTS

2012	Outstanding Excellence Staff member award – Braude College
2010	Outstanding Excellence Staff member award – Braude College
2009	Outstanding Excellence Staff member award – Braude College
2003.	First patent invention achievement award – IBM research

PROFESSIONAL ACTIVITIES

ORT Braude College:

2010 – present	Member, Software Engineering M.Sc. program teaching committee
2010 – present	Member, Information Systems Engineering B.Sc. program teaching committee
2007 – 2011	Member, Software Engineering B.Sc. program teaching committee
2006 – 2011	Member, Committee of Academic affairs

Conferences and workshops:

- Head of the organizing and program committee: the 6th Interdisciplinary Research Conference, ORT Braude College, October 2010.
- Program Committee Member - Next Generation Information Technology and Systems (NGITS) 2009
- Program Committee Member - IEEE Workshop Agile Cooperative Process-aware Information Systems (ProGility) 2009
- Program Committee Member - IEEE Workshop Agile Cooperative Process-aware Information Systems (ProGility) 2008
- Program Committee Member - IEEE Workshop Agile Cooperative Process-aware Information Systems (ProGility) 2007
- Program Committee Member - Business process management intelligence (BPMI) 2007 workshop
- Program Committee Member - Business process management intelligence (BPMI) 2006 workshop
- Program Committee Member - Business process management intelligence (BPMI) 2005 workshop
- Session Chair – Cooperative Information Systems (CoopIS) 2004

LIST OF PUBLICATIONS

Refereed Papers

1. R. Avros, M. Golani, and Z. Volkovich. A comperative approach to cluster validation. Journal of Pattern Recognition Research, Vol 6, No 2 (2011) pages 230-243, 2011.
2. Z. Volkovich, R. Avros, and M. Golani, On Initialization of the Expectation Maximization Clustering Algorithm. Global Journal of Technology Optimization. Volume 2, No.2, pages 117-120, June 2011
3. P. Soreanu, Z.Volkovitch, Z. Barzily, and M.Golani - Migitating Jamming Attacks in Wireless Sensor Networks: an Energy-Efficient Method in a Mobile Jammer Environment. International Journal of Pure and Applied Mathematics (IJPAM)): Volume 56, No. 4 (2009).
4. Z. Barzily, M. Golani and Z. Volkovich. On a Simulation Approach to Cluster Stability Validation. Systems and Means of Informatics, special issue on mathematical and computer modeling in applied problems, pages 6-15, 2008.

5. M.Golani. Workflow Search Space Reduction – a Model Driven Approach. International Journal of Pure and Applied Mathematics (IJPAM), Vol 44/2 pages 265-280, 2008.
6. Shlomit Pinter, and Mati Golani. Discovering workflows model from activities' lifespans. Computers in Industry, special issue on process/workflow mining Vol 53/3 pages 283-296, 2003.

Books

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Book Chapters

M. Golani. Adaptive and Flexible Exception Management in Uncertain Environments. Handbook of Research on Complex Dynamic Process Management, IGI global, 2009. ISBN: 978-1-60566-669-3

Conferences Proceedings (Refereed)

1. M. Golani, I. Golani, Neural Net Ensemble Based QSAR Modeler for Drug Blood Brain Barrier Permeation, Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering and Computer Science 2014, WCECS 2014, 22-24 October, 2014, San Francisco, USA, pp 818-823.
2. M. Lincoln, M.Golani, A. Gal, Machine-assisted design of business process models using descriptor space analysis. BPM'10 Proceedings of the 8th international conference on Business process management Springer-Verlag LNCS 6336 pages 128-144, 2010.
3. M. Golani, A.Gal and E. Toch. Modeling Alternatives in Exception Execution. BPM 2007 International Workshops, BPI, BPD, CBP, ProHealth, RefMod, semantics4ws, Brisbane, Australia, September 24, 2007, Revised Selected Papers, Lecture Notes on Computer Science, 4928, Springer Verlag, pages 54-65, 2008.
4. M. Golani, and A.Gal. Optimizing Exception Handling in Workflows using Process Restructuring. In Scharam Dusttdar et al. editor, Lecture Notes on Computer Science, 4102, Springer Verlag, Proceedings of the Business Process Management International Conference, BPM 2006, Vienna, Austria, pages 407-413, 2006, (25% acceptance rate.)
5. M. Golani and A.Gal. Flexible business process management using forward stepping and alternative paths. In W. van der Aalst et al., editor, Lecture Notes on Computer Science, 3649, Springer Verlag, Proceedings of the Business Process Management International Conference, BPM 2005, Nancy, France, pages 48-63, 2005, (14% acceptance rate.)
6. Mati Golani, and Shlomit S. Pinter. Generating a Process Model from a Process Audit Log. In W. van der Aalst et al., editor, Lecture Notes on Computer Science, 2678, Springer Verlag, Proceedings of the Business Process Management International Conference, BPM 2003, pages 136-151, 2003, (32% acceptance rate.)
7. Mati Golani, and Opher Etzion: Temporal Active Rules. In R. Pinter et al., editor, Lecture Notes on Computer Science, 1649, Springer Verlag, Proceedings of the

Next Generation Information Technology and Systems, NGITS 1999, Israel, pages 159-172, 1999.

Conferences

Avigdor Gal, Eugeny Michailovsky, and Mati Golani. Workflow Optimization using Chains - CoopIS 2003 poster submission

Other Publications

Professional Reports:

- 1.