Arie Jacobi

CURRICULUM VITAE AND LIST OF PUBLICATIONS

Personal Details

Name: Arie Jacobi

Education

1990-1995	Ph.D. Department of Computer Science, Hebrew University, Jerusalem, Israel.
	Dissertation: "Approximation and/or Construction of Curves and Surfaces by Minimization Methods, With or Without Constraints."
	Ph.D. Supervisor: Prof. Michel Bercovier.
1985-1988	M.Sc. Magna cum laude. Department of Computer Science, Hebrew University, Jerusalem, Israel.
	Dissertation: "An Object Oriented System for Movement of 3-D Articulated Figures."
	Advisor: Prof. Michel Bercovier.
1981-1985	B.Sc. Cum laude. Department of Computer Science & Mathematics, History of Art, Hebrew University, Jerusalem, Israel.

Employment History

2011 - Present	Senior Lecturer
	Business School, Department of Information Systems
	Ono Academic College
2010 - Present	Lecturer
	The School of Business Administration
	The Hebrew University of Jerusalem, Israel
2005-2010	Senior Lecturer and Head
	Department of Software Engineering
	SCE - Sami Shamoon College of Engineering, Israel
2002-2008	Senior Lecturer (part time)
	Department of Computer Science
	Lev Institute, Israel
2003- 2005	Senior Lecturer and Head
	Computer Hardware & Software Engineering Department
	Ruppin Academic Center, Engineering School, Israel
1996-2000	Senior Lecturer and Head (part time)
	Department of Computer Science
	Academic College of Technology – ORT Jerusalem, Israel
1985-1988	Research Assistant & Lecturer
	Department of Computer Science
	The Hebrew University of Jerusalem

Professional Activities

(a) Positions in academic administration

2006-2008	Head of the Department of Software Engineering
	SCE - Sami Shamoon College of Engineering, Israel
2003- 2005	Head of Computer Hardware & Software Engineering (CHSE)
	Department, Engineering School, Ruppin Academic Center
	Development of the B.Sc. CHSE program that was approved by
	the Israeli Higher Education Committee.

1996-2000   Head of Department of Computer Science

Academic College of Technology – Ort Jerusalem

Development of the B.Tech. in Computer Science program that
was approved by the Israeli Higher Education Committee.
Development of the B.Sc. in Computer Science program that was
sent to the Israeli Higher Education Committee.

(b)   Professional functions outside universities/institutions

2002-2003   Managing Director and Co-founder, Light Energy Saving Ltd.

- Set up an operation for a distribution and marketing network of
energy saving products in the UK and Ireland

1999-2002   Director of Customer Care & Billing Division for the Telecom
Industry, Amdocs Corp.

- Large accounts management (management, implementation)

- Business development

- Sales & support

- Amdocs representative at Accenture

1998-1999   Head of the Real time Network Management System Division
Nortel Networks Israel

- Management of a number of projects

- Sales & customer support

1995-1998   CEO and Co-founder, RobotTree Technology Ltd.,

Set up a start-up that developed a robotic system for fruit
harvesting.

1993   Software Engineer, Heshev Pituach

(c)   Significant professional consulting

2012   Consultant, fl3ur Ltd.

Analysis, design & implementation of mobile application for IOS
and Android based systems.

2003– 2004   Consultant in the areas of information systems & technology,

Internet technologies, software technologies, project

management, system analysis & design, implementation and management solutions (part time).

(d)   Membership in professional/scientific societies (past and present)

Association for Information Systems, Member

Israel Association for Information Systems, Member

Educational Activities

(a)   Courses taught

Graduate Courses

- Computer Aided Geometric Design (Hebrew University)
- Introduction to Web Technologies (Hebrew University)
- Project Management (Ono Academic College)

Undergraduate Courses

(Ono Academic College)

- Database Theory and Implementation (Ono Academic College)
- Introduction to Information Systems
- Introduction to Computer Structure
- Introduction to Software Quality Assurance
- Project Management
- Object Oriented Programming using Java
- Analysis and Design using UML

(Hebrew University)

- Computer Graphics (Hebrew University)
- Introduction to Computer Science (Hebrew University)
- Introduction to Web Technologies (Hebrew University)
- Introduction to Information Systems / Technology

(Shamoon College of Engineering, Ruppin Academic Center)

- Graph Theory Algorithms (I, II) (Ruppin Academic Center)
- Network and Computer Security (SCE)
- Object Oriented Analysis and Design using UML (SCE)
- Object Oriented Programming (C++ (I, II), Java (I, II),) (SCE)

- Scientific Computing (SCE)

- Software Engineering (I, II) (SCE)

- Computer Architecture (SCE, Ruppin Academic Center)

- Computer Networks (Ruppin Academic Center)

- Computer Structure (SCE, Ruppin Academic Center)

- Data Structures and Algorithms (I, II) (Ruppin Academic Center)

- Automata Theory and Formal Languages (Lev Institute)

Awards, Citations, Honors, Fellowships

> (a) <u>Honors, Citation Awards</u>

2019   Excellence in Research – Ono Academic College.

1992   Grant from the Ministry of Science and Culture, Land Hessen, W. Germany.

1988   Landau Prize for Outstanding M.Sc. Thesis.

1982   Dean's Honor's List, Hebrew University.

> (b) <u>Fellowships</u>

1990-1994   Fellowship for Ph.D. studies in Computer Science, Hebrew University.

1985-1988   Fellowship for M.Sc. studies in Computer Science, Hebrew University.

Publications

> (a)   <u>Refereed professional articles and publications</u>

- Jacobi, A., & Tzur, J. (2019). Optimal screening capacity and perceived risk of mortgage banks across countries. *Emerging Markets Review*, *41*, 100654.

- Yevgeny Mugerman, Joseph Tzur., and Arie Jacobi., (2018), Mortgage Loans and Bank Risk Taking: Finding the Risk "Sweet Spot", Quarterly Journal of Finance, Vol. 8, No. 4.

- Tzur Joseph and Arie Jacobi," Wealth Inequality and Bank Failure: A Cross-Country Simulation Analysis", Journal International Financial Markets Institutions and Money (2019). https://doi.org/10.1016/j.intfin.2018.12.017

- Tzur J., and Jacobi A., (2018), Decision Making under Uncertainty and the Two-Envelope Paradox, Journal of Theoretical Accounting Research, 13(2) (2018), pp. 88-108.

- Jacobi, A. and Ben-Assuli, O., 2012, Improving Robustness of Scale-Free Networks to Message Distortion. Lecture Notes in Business Information Processing. Vol. 129, No. 4, pp. 185-199.
- Lifschutz, S., Jacobi, A. and Feldshtein, S. 2010, Corporate Governance Characteristics and External Audit Fees: A Study of Large Public Companies in Israel. International Journal of Business and Management, Vol. 5, No. 3.
- Jacobi, A. and Lifschutz, S. 2010, Minimization, Constraints and Composite Bezier Surfaces. Journal of Applied Quantitative Methods, Vol.5.
- Lifschutz, S. and Jacobi, A. 2010, Predicting Bankruptcy: Evidence from Israel. International Journal of Business and Management, Vol. 5, No. 4.
- Jacobi, A. 2009, Approximation and Construction of Composite Bezier Surfaces Using Minimization and Finite-Element Methods. Computer Modelling and New Technologies,Vol. 13, No.4, 22-38.
- Bercovier, M. & Jacobi, A. 1994, Minimization, Constraints and Composite Bézier Curves. Computer Aided Geometric Design, Vol. 11., pp. 533-563.
- Bercovier, M. & Jacobi, A.1992, Approximation and/or Construction of Curves by Minimization Methods with or without Constraints. Mathematical Modelling and Numerical Analysis, Vol. 26, No. 1, pp. 211-232.

(b) Papers under Revision or Review Process

Jacobi A., Tzur J., 2018, Wealth Distribution and Probability of Bank Failure across Countries, Journal of Emerging Markets Review

(c) Chapters in collective volumes- Conference proceedings

- Ben-Assuli, O. and Jacobi, A., 2012, "Improving Robustness of Scale-Free Networks to Message Distortion" In: *Knowledge and Technologies in Innovative Information Systems*. Rahman, H., Mesquita, A., Ramos, I. and Pernici, B. (Eds.). Springer Publishing, Berlin and Heidelberg, Germany. pp. 185-199.
- http://www.springer.com/computer/information+systems+and+applications/book/978-3-642-33243-2
- Jacobi, A. and Ben-Assuli, O., 2012, Improving Robustness of Scale-Free Networks to Message Distortion. 22nd Annual Workshop on Information Technologies and Systems - Orlando, USA.

- Ben-Assuli, O. and Jacobi, A., 2012, Improving Correctness Abilities of Scale-Free Networks to Message Distortion. 7th Mediterranean Conference on Information System - Guimarães, Portugal.
- Jacobi, A. and Ben-Assuli, O., 2011, Distortion of a Message Diffused in a Social Network, 21st Annual Workshop on Information Technologies and Systems - Shanghai, China.
- Jacobi, A. and Ben-Assuli, O., 2011, Mutation of a Message Diffused in a Social Network. 6th Mediterranean Conference on Information System, The University of Nicosia - The Amathus Hotel, Limassol, Cyprus.

Chapters in collective volumes - Conference proceedings
- Jacobi, A. and Ben-Assuli, O., 2012, Improving robustness of scale-free networks to message distortion, 22nd Annual Workshop on Information Technologies and Systems - Orlando, USA
- Ben-Assuli, O. and Jacobi, A., 2012, Improving Correctness Abilities of Scale-Free Networks to Message Distortion, 7th Mediterranean Conference on Information System - Guimarães, Portugal
- Jacobi, A. and Ben-Assuli, O., 2011, Distortion of a Message Diffused in a Social Network", 21st Annual Workshop on Information Technologies and Systems - Shanghai, China.
- Jacobi, A. and Ben-Assuli, O., 2011, Mutation of a Message Diffused in a Social Network, 6th Mediterranean Conference on Information System, The University of Nicosia - The Amathus hotel, Limassol, Cyprus

Lectures and Presentations at Meetings and Invited Seminars not followed by Published Proceedings

(a)   Presentation of papers at conferences/meetings (oral or poster)
- Jacobi, A. (with Tzur J., 2019), Wealth Distribution and Probability of Bank Failure across Countries, The second 2019 Cross Country Perspective in Finance, Mauritius
- Jacobi, A. (with Muchnick, L., and Walker, D.), 2018, Creation of Homophilous Networks using Simulated Annealing, WITS 2018, San Jose, USA

- Tzur J. and Jacobi, A, 2017, Wealth Inequality and Bank Failure: A Cross-Country Simulation Analysis, The second 2017 Cross Country Perspective in Finance, Chiang Mai, Thailand

- Jacobi, A. (with Ben-Assuli O. and Hart T.), 2017, Participation in SIG Health Workshop, ICIS 2017, Seoul, South Korea

- Jacobi, A. and J Tzur J., 2017, Wealth Inequality and Bank Failure: A Cross-Country Simulation Analysis, The first 2017 Cross Country Perspective in Finance, Chengdu, China

- Jacobi, A., 2017, Cyber issues and challenges in health information exchange systems, National Health Record System: Local and Global Challenges and Opportunities, Israel

- Jacobi, A., 2017, Creation of homophile networks using two methods based on simulated annealing, The 9th ILAIS Conference, Kiryat Ono, Israel

- Jacobi, A. and Ben-Assuli, O., 2013, Improving correctness of scale-free networks to message distortion, ILAIS, Israel

- Jacobi, A. and Ben-Assuli, O., 2013, Improving Robustness of Scale-Free Networks to Message Distortion, 22nd Workshop on Information Technologies and Systems (WITS), Orlando

- Jacobi, A. and Ben-Assuli, O., 2012, Improving Robustness of Scale-Free Networks to Message Distortion, 18nd Americas Conference on Information System - Seattle, Washington, USA (Poster)

- Jacobi, A. and Ben-Assuli, O., 2011, Transformation of Massages Propagated in a Social Network, Post-ICIS 2011, LG CNS/KrAIS - Shanghai, China

- Jacobi, A. and Ben-Assuli, O., 2011, Mutation of a Massage Diffused in a Social Network, 21st Workshop on Information Technologies and Systems (WITS), - Shanghai, China

- Jacobi, A. and Ben-Assuli, O., 2011, Distortion of a Message Propagated in a Social Network, MCIS, Cyprus

- Jacobi, A. and Ben-Assuli, O., 2011, Distortion of a Message Propagated in a Social Network, 5th Israel Association for Information Systems Conference - The Open University of Israel, Israel

- Jacobi, A., 2004, Robotic System for Fruit Harvesting, Conference on Robotic Systems in Agriculture, Tel-Aviv, Israel

- Jacobi, A., 1993, Approximation of Planar curves using the Finite Element Method, International Workshop on Computer Aided Geometric Design, Eriche, Italy.

(b)   Seminar presentations at universities and institutions

- 2018, Mortgage Loans and Bank Risk Taking: Finding the Risk "Sweet Spot", School of Business Administration, The Hebrew University at Jerusalem, Israel,

- 2018, Wealth Inequality and Bank Failure, Department of Economics and Accounting, Rupin Academic College, Israel

- 2017, Cyber issues and challenges in health information exchange systems, The Faculty of Business Administration, Ono Academic College, Israel

- 2016, Is inequality of wealth good for banks? (with Joseph Tzur), The Faculty of Business Administration, Ono Academic College, Israel

- 2013, Geometric Based Approximation of Planar Points Using Piecewise Cubic Bézier Curve, The Faculty of Business Administration, Ono Academic College, Israel

- 2011, Distortion of a message propagated in a social network, The Faculty of Business Administration, Ono Academic College, Israel

- 2011, FEM's HP-Method Using Overplayed Approximation, The Faculty of Business Administration, Ono Academic College, Israel

Conference Organization

- National Health Record System: Local and Global Challenges and Opportunities, 2017, Ono Academic College, Kiryat Ono, Israel

- The 9nd Conference of the Israel Chapter of the AIS (ILAIS 2015), Ono Academic College, Kiryat