

January 2019

## **Arie Jacobi**

### CURRICULUM VITAE AND LIST OF PUBLICATIONS

#### **Personal Details**

Name: Arie Jacobi

Regular military service: 1974-1977 + reserves

Address (W): Ono Academic College, 104 Zahal Street, Kiryat Ono, 55000,

Work: +(972)-3-5311919

#### **Education**

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|-----------|--|
| 1990-1995 | Ph.D. Department of Computer Science, Hebrew University, Jerusalem, Israel.<br>Dissertation: "Approximation and/or Construction of Curves and Surfaces by Minimization Methods, With or Without Constraints."<br>Ph.D. Supervisor: Prof. Michel Bercovier. |
| 1985-1988 | M.Sc. Magna cum laude. Department of Computer Science, Hebrew University, Jerusalem, Israel.<br>Dissertation: "An Object Oriented System for Movement of 3-D Articulated Figures."<br>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) Honors, Citation Awards

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|------|--|
| 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) Fellowships

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|-----------|--|
| 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) Refereed professional articles and publications

- Jacobi, A., & Tzur, J. (2019). Optimal screening capacity and perceived risk of mortgage banks across countries. *Emerging Markets Review*, 41, 100654.
- Yevgeny Mugerma, 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, 22<sup>nd</sup> Workshop on Information Technologies and Systems (WITS), Orlando
- Jacobi, A. and Ben-Assuli, O., 2012, Improving Robustness of Scale-Free Networks to Message Distortion, 18<sup>nd</sup> Americas Conference on Information System - Seattle, Washington, USA (Poster)
- Jacobi, A. and Ben-Assuli, O., 2011, Transformation of Messages Propagated in a Social Network, Post-ICIS 2011, LG CNS/KrAIS - Shanghai, China
- Jacobi, A. and Ben-Assuli, O., 2011, Mutation of a Message Diffused in a Social Network, 21<sup>st</sup> 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, 5<sup>th</sup> 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, Erice, 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