RESUME

Full name: Assaf Avrahami
Born: 1974, Israel
Marital status: married +4 children
Web site: http://ie.technion.ac.il/Home/Users/avrahami0.html

ACADEMIC DEGREES

2012 October	PhD	Industrial Engineering & Management Technion—Israel Institute of Technology, Haifa, Israel
1999 June	MBA	Industry & Business Management, specializing in Marketing & Production Management, Industrial Engineering & Management, Technion —Israel Institute of Technology, Haifa, Israel
1995 July	BSc	Mechanical Engineering, Technion—Israel Institute of Technology, Haifa, Israel

ACADEMIC APPOINTMENTS

2018- Today	Adjunct Assistant Professor , Technion, Industrial Engineering & Management
2014 -2018	Visiting lecturer. Technion, Industrial Engineering & Management
2012-2013	Adjunct lecturer. Technion, Industrial Engineering & Management
2012-2013	Visiting scientist. Technion, Industrial Engineering & Management
2011	Visiting PhD Student. Massachusetts Institute of Technology (MIT), Sloan School of Management
2006-2007, 2013	Adjunct lecturer, ORT Braude College of Engineering

PROFFESIONAL EXPIRIENCE

2015 Nov	CEO, Paymaxs, part of the OMNINET group, providing innovative technology solutions in the areas of mobile and social networking for the global lottery industry. Its development center is located in Israel and it is active in Europe and the United States.
2014 – 2015	VP technology & operations, Yedioth group; responsible for all production plants, Internet technology, supply chain and distribution; total budget of $100 M and 800 employees.
2007 – 2013	CEO, Yedioth Information Technology, advanced technology company employing 200 people, developing IT solutions and Internet sites for media companies.

2001 – 2007 General Manager, Yedioth Communications Press (a subsidiary of the Yedioth Group), an advanced process-printing enterprise employing approximately 150 people. Project manager for the establishment of a new printing house, from the building stage, including set-up of organizational and technological infrastructures and equipment acquisition from foreign suppliers; ongoing management of the company for the final three years of employment.

1999 – 2000 Technical team manager of approximately 100 technicians serving the navy's Special Forces.

1998 – 1999 Metal work plant manager, Israeli navy shipyard, in charge of approximately 100 workers; project and production management in OFFICE ERP and engineering tools planning environments.

1996 – 1997 Development engineer, Israeli navy, working in an advanced CAD tools environment; research & management of armaments projects for the navy's Special Forces.

1995 Chairman, Technion Students Association, Haifa, Israel.

RESEARCH INTEREST

My research focuses on two aspects of information: quality and quantity. The fact that information has value in the management of supply chains is well accepted. My guiding principle is to determine how can we maximize both quality and quantity of information so that supply chains in any enterprise run as efficiently and effectively as possible.

In examining the quality of information, it is extremely important to understand—and reduce as much as possible—discrepancies known as inventory errors. These are the result of events that can be classified as one of the following three types: Shrinkage, Misplacement and Wrong Scanning. These events lead to discrepancies between inventory reflected in the IT system records (the computer records) and available inventory for sale. The literature describes both the extent to which these types of discrepancies are commonplace and the degree to which they cause increased lost sales and lower profits. These discrepancies and/or their associated negative effects, however, can be eliminated/reduced if more information is available.

To examine information quantity, my research focuses on distribution systems that are based on a network of retailers. The research explores and quantify the value of additional information in these systems. In particular, I want to examine the value of having the ability to review the system state more frequently, allowing the partial aggregation of retailers.

Another research interest relates to inventory optimization and planning and will focus on display ads on the web. In this market segment, there is a growing need for innovative models that capture new business models and enable profit optimization for the firm. In addition, research topics will focus on big data issues related to production system engineering.

TEACHING EXPERIENCE

2016 Project in industry, Technion, winter and spring semesters

2014-2016	Operations Management, MIT, visiting lecture for one week
2013 – 2017	Introduction to Industrial Engineering, Technion, winter & spring semesters
2006	Introduction to Marketing, ORT Braude College of Engineering

AWARDS AND HONORS

2017	Extra Excellence in Teaching, Technion, spring
2015	Excellence in Teaching, Technion, spring
2013	Wagner Prize, Informs
2012	Mahrez Prize, ORSIS
2012	Third prize in Industrial Engineering and Management Conference, Israel

GRADUATE STUDENTS

2016	Evgeny Korchatov, The Value of Inventory Accuracy in Supply Chain Management: Correlation Between Errors Sources and Proactive Error Correction
2015	Hila Shtern, Inventory Errors in a Printing House

RESEARCH GRANTS

2013	Microsoft Israel, $25,000
2011	Magbit Foundation, $10,000
2010	Magbit Foundation, $10,000
2009	IFRA (international media research organization), €5,000

Submitted grants this year (pending):

2018	Microsoft, $25,000

PUBLICATIONS

Shtern H. and A. Avrahami (2017). Inventory Errors in A Printing House. *Journal of Theoretical and Applied Electronic Commerce Research*. Volume 11(2) , pages 71-86.

Avrahami, A., Y. T. Herer and R. Levi (2014). Matching Supply and Demand: Delayed Two-Phase Distribution at Yedioth Group – Models, Algorithms, and Information Technology.

Interfaces, Volume 44 (5), pages 445–460, September-October 2014); the paper was awarded the 2013 Daniel H. Wagner Prize for Excellence in Operations Research Practice.

Avrahami, A., Y. T. Herer and A. Shtub (2013). The Paper Reel Supply Chain: An RFID Enabled Information Rich Approach. *Journal of Theoretical and Applied Electronic Commerce Research*. **8**, 96-111.

Avrahami, A., Y. T. Herer and A. Shtub (2010). Paper Reel Management with RFID Technology. IFRA special report number 01.2010.

WORK IN PROGRESS

Avrahami, A., A. Tzimerman, Y. T. Herer and A. Shtub (2017). The Value of Inventory Accuracy in Supply Chain Management. *Submitted* .

Avrahami, A. and Y. T. Herer (2017). The Value of Multi Phase Delayed Distribution Network. *Submitted* .

Smirnov, D., Y. T. Herer, Avrahami, A., and R. Levi. The Two-Phase Stochastic Lotsizing Problem with Optimal Timing of Additional Review. *Submitted* .

Smirnov, D., Y. T. Herer, Avrahami, A., and R. Levi. The Two-Phase Stochastic Lotsizing Problem with Optimal Timing of Additional Review – Case Study at Yedioth group. *Working paper.*

Korchatov, E. and Avrahami A. The Value of Inventory Accuracy in Supply Chain Management: Correlation Between Errors Sources and Proactive Error Correction. *Submitted*

CONFERENCES

Avrahami, A., Y. T. Herer and A. Shtub. The Paper Reel Supply Chain: An RFID Enabled Information Rich Approach. *MSOM* 2009.

Avrahami, A., Y. T. Herer and R. Levi. The Value of Information in a Retailer-Based Distribution Network. *MSOM* 2010.

Avrahami, A., A. Tzimerman, Y. T. Herer and A. Shtub. The Value of Inventory Accuracy in Supply Chain Management. *MSOM* 2011.

Avrahami, A., Y. T. Herer and R. Levi. The Value of Additional Information in a Retailer-Based Distribution Network. *MSOM* 2011.

Avrahami, A., A. Tzimerman, Y. T. Herer and A. Shtub. The Value of Inventory Accuracy in Supply Chain Management. *Supply Chain SIG, 2012*.

Avrahami, A., Y. T. Herer and R. Levi (2014). Matching Supply and Demand: Delayed Two-Phase Distribution at Yedioth Group – Models, Algorithms, and Information Technology. *Informs Analytics 2014.*

D. Smirnov, Y. T. Herer, Avrahami, A., and R. Levi. The Two-Phase Stochastic Lotsizing Problem with Optimal Timing of Additional Review. *Informs 2014.*

Smirnov, D., Herer, Y. T. and Avrahami, A. Leveraging In-Cycle Demand Information to Maximize Profit in a Single-Period Framework. *Seminar talk*, Eindhoven University of Technology, Netherlands, 2016.

THESIS

PhD Thesis, 2012, The value of perfect and imperfect information in a multi-location inventory system.

PATENTS

Social Network Based on Phonebook Entries, Patent ID. 16693015.