

CURRICULUM VITAE

AVRAHAM SHTUB

I.D. number: 5130837
Date of Birth: April 11, 1952, Israel
Family Status: Married + 3 children
Home address: 16 Sigalit Street,
Hadera 38417, Israel
Tel. No.: 972-4-8294454 (Work)
E-mail: shtub@ie.technion.ac.il
Fax: 972-4-8295688

EDUCATION

1970 - 1974 Technion - Israel Institute of Technology
Dept. of Electrical Engineering, **B.Sc.** 1974
1975 - 1978 Tel-Aviv University, School of Management
Production Management, **M.B.A.** 1978
1979 - 1982 Ph.D., University of Washington, Seattle, Washington, U.S.A.
Production and Operations Management, Industrial Engineering,
Quantitative Methods, **Ph.D.** 1982

ACADEMIC APPOINTMENTS

2001–present: Stephen and Sharon Seiden Chair in Project Management
1998–present: Technion, Faculty of Industrial Engineering & Management
Professor.
11-12 2009 Kaist – Korean Advanced Institute of Science and Technology
Visiting Professor of Industrial and Systems Engineering
2005-2007: Associate Dean, Head of MBA Programs at the Technion
1992–1998: Tel-Aviv University, Industrial Engineering
Associate Professor.
1993–1996 Tel-Aviv University,
Chairman Department of Industrial Engineering.

1990–1992	Vanderbilt University, Visiting Associate Professor of Engineering and management.
1987–1992	Tel Aviv University, Industrial Engineering, Senior Lecturer (with tenure).
1984–1987	Tel-Aviv University, Industrial Engineering, Lecturer.
1982–1984	Washington State University, Management and Systems, Visiting Assistant Professor.
1979–1982	University of Washington, Seattle, Washington, Management and Organizations, Pre-doctoral Teaching Associate.

PROFESSIONAL EXPERIENCE

1984 - present	Israeli Industry Consultant in the areas of Project Management, Technology Management Facilities Planning, Design of Production Systems, ERP systems and Operations Management.
1974 - 1979	Israeli Navy Project Engineer.

RESEARCH INTERESTS

Project Management, the Design/Operation of Production and Assembly Systems, Learning and Forgetting, ERP systems.

TEACHING EXPERIENCE

Courses taught:

At the University of Washington

OP MGT 301 Operations Management
QM 201 Statistics

At Washington State University

MGT 340 Production and Operations Management
QMETH 417 Introduction to Simulation

At Tel Aviv University, Department of Industrial Engineering

0571.2102 Methods Engineering
0571.3123 Analysis of Production Systems
0571.4117 Facilities Design
0571.4124 Advanced Topics in Industrial Engineering
0571.4140 Analysis of Operations Control Systems
0571.4123 Project Management Systems

0571.5256 Design of Production Lines
0571.5206 Advanced Project Management
0571.4157 Production Planning and Control Lab.

At Tel Aviv University Business School and other programs

- An undergraduate course in Operations Management.
- A graduate course in Operations Management for executives.
- A course in Operations Management for hospitals.
- A course in Project Management and Control.

At Vanderbilt University

571-1 Operations Planning and Control
579-1 Project Management (graduate level)
286-1 Program and Project Management (undergraduate level).
562-1 Enterprise Resource Planning

At the Technion – Israel Institute of Technology

094191 Introduction to Industrial Engineering.
095140 Project Planning and Control
096140 Processes in Project Management
098710 Operations Management
098712 Project Management
098713 Multi-Project Management

Short courses and workshops in other universities

The University of Pennsylvania, Korean Institute of Technology, Bilkent University in Turkey, Otago University in New Zealand, Yale University, Universidad Politécnic de Valencia, University of Bergamo in Italy, Politecnico di Milano in Italy and Cornell Tech in NY.

Executive MBA programs (Tel Aviv University, Bar Ilan University and Kellogg program in SASIN, GIBA, Chulalongkon University, Thailand)

Operations Management
Operations Planning and Control in the ERP Era
Project Management

At the University of Pennsylvania Wharton program of Executive Master in Technology Management (EMTM)

Project Management workshop based on the Project Management Trainer Simulator

ADMINISTRATIVE POSTS

1. Tel Aviv University

Faculty Activities:

Department Chairman.

Representative of Lecturers in Faculty Council

Member of the following committees:

Departmental Curriculum Committee
Library Committee

Undergraduate Admission Committee
 Computer Committee
 Committee on Teaching

In charge of departmental seminars.

Chairman: Departmental Curriculum Committee.

Member - Special Curriculum Committee for the new school of Architecture at Tel-Aviv University.

Member - Special Curriculum Committee for the new B. Tech Program.

2. Technion – Israel Institute of Technology

Coordinator of the Industrial Engineering and Management undergraduate program.

Member – Technion Committee on undergraduate studies.

Member – Technion Committee on non-tenured track Faculty.

Member – Technion Committee on Instruction.

Member – Technion Committee on extracurricular studies.

Member – Technion Senate Degree Review committee

Member – Technion Committee on Awards and Prizes.

Head – Area of Industrial Engineering.

Associate Dean, Head of the MBA program

3. Israeli Council of Higher Education (VATAT)

Chairman, Committee for the Evaluation of the Jerusalem College of Technology.

Committee for the Evaluation of the Hulan Technology College Management of Technology graduate program.

PUBLIC PROFESSIONAL ACTIVITIES

Member, Committee for the Evaluation of the Industrial Engineering and Management faculty Ben Gurion University.

Member, Board of Directors, The Marcel and Annie Adams Institute for Business Management Information Systems.

Member, Board of Directors, Project Management Institute - Israeli Chapter (1977).

Member, Academic Board, Tel Aviv College of Engineering.

Vice-President, Project Management Institute – Israeli Chapter (1998, 1999).

Member, Academic Advisory Board, Tel Aviv Academy of Engineering.

Editorial Activities:

1. Serving as Department Editor, *IIE Transactions* (1.5.2006 –1.5.2009)

2. Served on the Editorial Board of the following journals:

2.1 *International Journal of Project Management* (1.1.1997–1.21.2000)

- 2.2 *Project Management Journal* (1.1.1997–1.1.1999)
- 2.3 *IIE Transactions* (1.5.2001–1.5.2006)
- 2.4 *International Journal of Production Research* (1.1.2003–30.12.2005)

3. Serving as a reviewer for the following journals:

- 3.1 *Decision Sciences*
- 3.2 *Decision Support Systems*
- 3.3 *European Journal of Operational Research*
- 3.4 *International Journal of Production Economics*
- 3.5 *International Journal of Production Research*
- 3.6 *International Journal of Project Management*
- 3.7 *IEEE Journal of Robotics and Automation*
- 3.8 *IIE Transactions*
- 3.9 *Management Science*
- 3.10 *Omega*
- 3.11 *Operations Research*
- 3.12 *Production and Operations Management*
- 3.13 *Production and Op Management*
- 3.14 *Production Planning and Control*

4. Book Reviews

Review of *Project Management Methodology: A Practical Guide for the Next Millennium*, by R.L. Kilem, I.S. Ludin and K.L. Robertson, *IIE Transactions*.

Review of *Global Project Management: Communication, Collaboration and Management Across Borders*, by J. Binder, *IJPR*.

5. Guest Editor – Special Issues

- a. Special Issue on ‘Raising the Competitive Edge in Manufacturing’ (with E.M. Dar-El), *International Journal of Production Economics*, Vol. 5, No. 1, 2, 1997.
- b. Special Issue on Project Management (with T. Raz), *International Journal of Industrial Engineering*, Vol. 6, No. 2, 1999.
- c. Special Issue on 'Simulators for Engineering Education and for Professional Development' (with A. Parush and T. Hewett), *International Journal of Engineering Education (IJEE)*. Vol. 25, No. 2, 2009.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

INFORMS – Institute for Operations Research and Management Science – member

IIE – Institute of Industrial Engineers – Senior member

PMI – Project Management Institute – member

POMS – Production and Operations Management Society – member

ISIR – International Society for Inventory Research – member

GMRG – Global Manufacturing Research Group – member

HONORS

1977 - Tel-Aviv University, The Sharon Fellowship.

1978 - Tel-Aviv University, The Argov Fellowship.

1978 - Tel-Aviv University, M.B.A. Degree, Cum Laude.

1979 - Tel-Aviv University, grant for Ph.D. Studies at the University of Washington, U.S.A.

1982 - University of Washington, Edna Benson Fellowship

1995 - Institute of Industrial Engineers (USA)
1995 Joint Publishers Book-of-the-Year Award for the book: *Project Management, Engineering Technology and Implementation* (co-authored with J. Bard and S. Globerson).

1996 - Tel Aviv University, Faculty of Engineering; Dean's Award for Excellence in Teaching.

2002 - Production Operations Management Society; Wick Skinner Teaching Innovation Achievements Award for the book: *Enterprise Resource Planning (ERP): The Dynamics of Operations Management*.

2002 - Technion, The Muriel and David Jacknow Award for Excellence in Teaching.

2008- Project Management Institute Professional Development Product of the Year Award for the training simulator "Project Team Builder – PTB".

2008 - Hershel Rich-Technion Innovation Award for the “Decision support system for project management”.

2009 - Inaugural 2009 Service Science Innovation Partnership Award for the paper: "Service Science in Hospitals: A Research-Based Partnership for Innovating and Transforming Patients Care", with Y. Marmor, A. Mandelbaum, S. Vasserkrug, B. Carmeli, P. Vortman, D. Schwartz, F. Basis, J. Assaf, D. Gopher, Y. Auarbach-Shpak.

2011 - Best Presentation. B2B LOCO Workshop, Opatija, Croatia. April 2011. “Using RFID for Paper Reel Tracking”, with A. Avrahami and A. Shtub.

GRADUATE STUDENTS

Completed Theses:

Dov, Moshe - "An Integrative Procedure for the Design of Production Lines" (assistant adviser, with E.M. Dar-El). M.Sc./I.E. - Technion, Haifa.

Asseo, Ruth - "Learning and Forgetting Curves Analysis and Combination" (principal adviser, with S. Globerson). M.Sc./I.E. - Tel-Aviv University.

Kapeliouk, Adi - "A Model for Selecting an MRP Software Package" (principal adviser, with I. Shpigler). M.Sc./M.I.S. - Tel-Aviv University.

- Simon, Moti - "Determination of Reorder Point in a Constrained Two--Echelon Inventory System, for Maximum Service Levels" (principal adviser). M.Sc./I.E. - Tel-Aviv University.
- Grinman, Arie - "Multilayer Protocol Development for Project Management and Control" (principal adviser, with I.B. Borovich). M.Sc./M.I.S. - Tel Aviv University.
- Sterling, Yoel - "Scheduling PCB's for two machines in flow shop order using Johnson rule and GT Techniques" (principal adviser, with O. Maimon). M.Sc./I.E. - Tel Aviv University.
- Etgar, Ran - "Scheduling Project to Maximize Net Present Value - The Case of the Time Dependent Cash Flows". M.Sc./I.E. - Tel Aviv University.
- Zakai, Dan - "Sequencing Mixed - Model Lines to Level Usage and Minimize Line Length". M.Sc./IE - Tel Aviv University.
- Yacouel, Arik - "Planning Production of Jobs with Sequence Dependent Setup Times and Due-date Times on Two Types of Machines". M.Sc./IE - Tel Aviv University.
- Lev, Eliran - "Fuzzy Quality Function Deployment". M.Sc./I.E. - Tel Aviv University.
- Nadir, Ronen - "Methods for Testing and Evaluation of a Graphic User Interface (GUI)". M.Sc./IE - Tel Aviv University.
- Versano, Ronen - "Estimating the Cost of Pipe Bending by Neural Networks". M.Sc./I.E. - Tel Aviv University.
- Francis, Sigal - "The Influence of Project Control on Performances of Building and Structure Projects". M.Sc./I.E. - Technion, Haifa.
- Peles, Amir - "Monitoring and Event Handling under Time Constraints: Implications for the display and Operations of Queues and Lists" (with A. Parush). M.Sc./IE, Tel Aviv University.
- Shavit, Doron - "Man Machine Interface in Monitoring and Control Systems that Use Video Information" (with A. Parush). M.Sc./IE, Tel Aviv University.
- Gurfinkel, Irina - "The Impact of Enterprise Resource Planning Systems on Company Performance in Israel". M.Sc./IE, Technion.
- Regev, Sary - "Applied Risk Methodology" (with J. Ben Haim), M.Sc./IE, Technion.
- Shavorin, Faina - "Assessing Risk in Early Project Planning under Severe Uncertainty" (with J. Ben Haim). M.Sc./IE, Technion.
- Ham, Hagit - "History of Learning Processes in Simulation-based Learning: Application in Engineering Education" (with A. Parush). M.Sc./IE, Technion.
- Shachor, Sara - "Learning and Forgetting in the Computer Industry" (with E.M. Dar-El). M.Sc./IE, Technion.

- Berman, Dafna - "Orientation and Navigation in 3D Interface" (with A. Parush). M.Sc./IE, Technion.
- Yuviler, Nirit - "Designing the User Interface for Various Interactive Platforms: Examination of Web Browsing in the Desktop PC and Cellular Phone" (with A. Parush). M.Sc./IE, Technion.
- Shwarts, Yonit - "The Effects of Visual Layout Complexity of Web Pages on Their Usability (with A. Parush). M.Sc./IE, Technion.
- Hod, Adi - "Tabular and Graphical Visualization in Enterprize Information Systems" (with A. Parush). M.Sc./IE, Technion.
- Karpovski, Ilana - "Relative Evaluation of Infrastructure Projects for Priority Setting" (with B. Golany). M.Sc./IE, Technion.
- Feldman, Pnina - "Construction and Evaluation of a Deterministic Model for Cost Estimation of Manufactured Parts Depending on the Dynamic Shop Floor Load". M.Sc./IE, Technion.
- Cohen, Izak - "Management of Stochastic Multi-Project Environments" (with B. Golany). Ph.D./IE, Technion.
- Nir, Michael - "A Profit-based Algorithm for Managing a Dynamic, Resource Constrained Multi-Project Environment". M.Sc./IE, Technion.
- Harel, Eilat - "A Comparative Analysis Based Control in a Multi Project R&D Environment" (with B. Golany). Ph.D./IE, Technion.
- Eklin, Mark - "Rough Cut Cost Estimation in a Capacitated, Stochastic, Environment". Ph.D./IE, Technion.
- Davidovitch, Lior - "Designing and Using Project Management Simulators". Ph.D./IE, Technion.
- Weismark, Sharon - "Improving Quality of Treatment in Emergency Rooms". M.Sc., Technion.
- Ravid, Shy - "Distributed Project Management" (with A. Rafaeli). Ph.D./IE, Technion.
- Avrahami, Assaf - "The Value of Perfect and Imperfect Information in a Multi-Location Inventory System".
 Third place in the Student Paper Competition associated with the Seventeenth Israeli Conference of Industrial Engineering and Management held in Tel Aviv in March 2012.
 Mahrez Prize, Operations Research Society of Israel (ORSIS), 2012.
 INFORMS's Daniel H. Wagner Prize for Excellence in Operations Research Practice, 2013 (with Y. Herer). Ph.D./IE, Technion.
- Ben Shabat, Shlomi - "Training Systems Engineers with Simulators". Msc./IE, Technion.
- Nassar, Fareda - "Incorporating Metacognition into Usability Testing" (with Rakefet Ackerman). Msc./IE, Technion.

Iluz, Michal - "Enhancing Performance of Project Teams in a Lean Project Environment Using Simulator-Based Training and Planning". Ph.D./IE, Technion.

Tzimerman, Avinoam - "Distributed Information Rich Transshipments: Analytical and Simulative Approaches" (with Y. Herer). Ph.D./IE, Technion.

Katz, Aric – "Wizard of Oz Technology: Design & Evaluation of Training Medical Doctors". Ph.D./IE, Technion.

Theses in Progress:

Strygacz, Iván - "Combining Simulation-Based Training and a Flipped Classroom in Project Management Learning". M.Sc./IE, Technion.

Levy, Itai - "Teaching Supply Chain Management using the Supply Chain Simulator" (with Y. Herer). M.Sc., Technion.

RESEARCH GRANTS

1984 - Tel-Aviv University,
Research Grant from the Israeli Center for Scientists Absorption.

1994 - Tel-Aviv University,
Research Grant No. 495, "A Combined Method for Continuous-Time Scheduling in Flexible Manufacturing Systems".

1994 - The Ministry of Science and the Arts,
Research Grant No. 571031 "Scheduling of Multi robot Arm FMS" (with O. Maimon and K. Kogan) NIS 66,815.

1995 - The Ministry of Science and the Arts,
Research Grant No. 571031, "Scheduling of Multi robot Arm FMS" (with O. Maimon and K. Kogan) NIS 70,000.

1995 - The Fleishman Fund,
"Fast Prototyping of Work Stations by Virtual Reality" (with Y. Arzi) \$11,000.

1996 - The Fleishman Fund,
"Fast Prototyping of Work Stations by Virtual Reality" (with Y. Arzi and Y. Bukchin) \$8,900.

1996 - The Israeli Ministry of Defense,
"Evaluation of Manufacturing and Assembly Methods", \$15,000.

1997 - VATAT and Tel Aviv University Funds,
"Human Engineering and Virtual Design", \$31,000.

1997 - The Israeli Ministry of Defense,
"Non Focused Helmet Display" (with M. Vagner, H. Shpitser and S. Einav), NIS 100,000.

1998 - The Fleishman Fund,

- “Telerobotics and Voice Interfaces” (with Y. Arzi), \$10,000.
- 1999 - Israeli Electric Company,
“Multi Project Control” (with B. Golany), NIS 100,000.
- 1999 - Israeli Electric Company,
“Project Risk Management” (with J. Ben-Haim), NIS 100,000.
- 2001 - Israeli Electric Company,
“Project Risk Management”, (with J. Ben-Haim), NIS 40,000.
- 2002 - Consist,
“Development of a Cost Estimating System” (with B. Golany, J. Rubinovits and D. Sinreich), NIS 429,600.
- 2003 - Consist,
“Development of a Cost Estimating System” (with B. Golany, J. Rubinovits and D. Sinreich), NIS 200,000.
- 2003–2007 - The Louis and Bessie Stein Foundation Fellowship,
“Design of Problem Representations to Improve Complex Learning and Decision Making Processes in Project Management” (with T. Hewett, Drexel University), \$40,000.
- 2004 - Israeli Electric Company,
“Development of a Simulator to Support Project Management Policies” (with B. Golany), NIS 90,000.
- 2004 - Virtual Research Lab for a Knowledge Community in Production (VRL-KCiP) Network of Excellence, European Union 6th Framework Programme (with M. Shpitalni and others)
Budget: €192,000; Total Budget €552,000.
- 2005 - The Gordon Research Center for Systems Engineering,
“A Model for Justifying Investment in Quality Function Deployment (QFD)” (with B. Golany), NIS 80784.
- 2006 - The Gordon Research Center for Systems Engineering,
“Project Management Simulation-Based Learning For Systems Engineering Students”, NIS 80784.
- 2007 - IBM OCR agreement (with D. Gopher and A. Mandelbaum), \$100,000.
- 2008 - IBM OCR agreement (with D. Gopher and A. Mandelbaum), \$100,000.
- 2008 - IFRA "Experimental Study of the Use of RFID Technology in Paper Industry" (with Y. Herer and A. Avrahami), €5000
- 2009–2012 Israeli Science Foundations (ISF),
"Designing Visualization for Expert Training in Project Management", NIS 468,000.
- 2010 - IBM Israel Research Fund,
"Mapping of Hospital Processes" (with D. Gopher and A. Mandelbaum), \$50,000.

2009–2010 ANU’s Vice-Chancellor's Teaching Enhancement Grant, ANU, Australia,
"Creating and Maintaining Approaches to Learning and Teaching in Project
Management" (with O. Zwikael), AU\$10,000.

2010 – Umbrella HPC,
"Evaluation of the Performance of a Simulation-based New Product Development (NPD)
Project Planning and Management System", \$5000

2010 - The Gordon Research Center for Systems Engineering, “A Simulator for Training in
Systems Engineering”, \$20,000.

2010–2011 Mabit, “Information Rich Supply Chain Management” (with Y. Herer), \$20,000.

2011 – Umbrella HPC,
"User Focused Simulator for Training of Medical Teams", \$5000

2011 - The Gordon Research Center for Systems Engineering,
“A Simulator for Training in Systems Engineering”, \$12000.

LIST OF PUBLICATIONS

Thesis:

Ph.D. - "Serial Production Systems", University of Washington, Seattle, Washington, USA,
1982.

Refereed Papers in Professional Journals:

1. Shtub, A., "The Effect of Incompletion Cost on Line Balancing with Multiple Manning of Work Stations," *International Journal of Production Research*, 1984, Vol. 22, No. 2, 235–245.
2. Chakravarty, A.K. and A. Shtub, "An Integrated Layout for Group Technology with In-Process Inventory Costs," *International Journal of Production Research*, 1984, Vol. 22, No. 3, 431–442.
3. Globerson, S. and A. Shtub, "The Impact of Learning Curves on the Design of Long Cycle Time Lines," *Industrial Management*, 1984, Vol. 26, No. 3, 5–10.
4. Shtub, A., "On the Natural Cycle Time of Assembly Lines," *The Journal of Operations Management*, 1984, Vol. 5, No. 1, 19–25.
5. Chakravarty, A.K. and A. Shtub, "New Technology Investments In Multistage Production Systems," *Decision Sciences*, 1985, Vol. 16, No. 1, 248–264.
6. Chakravarty, A.K. and A. Shtub, "An Experimental Study of the Efficiency of Integer Multiple Lot Sizes in Multi-Echelon Production Inventory Systems," *International Journal of Production Research*, 1985, Vol. 23, No. 3, 469–478.
7. Schmitt, T., T.D. Klatorin and A. Shtub, "Production Classification System: Concepts, Models and Strategies," *International Journal of Production Research*, 1985, Vol. 23, No. 3, 563–578.

8. Chakravarty, A.K. and A. Shtub, "Balancing Mixed Model Lines with In-Process Inventories," *Management Science*, 1985, Vol. 31, No. 9, 1161-1174.
9. Chakravarty, A.K. and A. Shtub, "A Cost Minimization Procedure for Mixed Model Production Lines with Normally Distributed Task Times," *European Journal of Operational Research*, 1986, Vol. 23, No. 1, 25-36.
10. Chakravarty, A.K. and A. Shtub, "Simulated Safety Stock Allocation in a Two-Echelon Distribution System," *International Journal of Production Research*, 1986, Vol. 24, No. 5, 1245-1253.
11. Chakravarty, A.K. and A. Shtub, "Dynamic Manning of Long Cycle Assembly Lines with Learning Effect," *IIE Transactions*, 1986, Vol. 18, No. 4, 392-397.
12. Shtub, A., "The Trade-Off Between the Net Present Cost of a Project and the Probability to Complete it on Schedule," *The Journal of Operations Management*, 1986, Vol. 6, No. 4, 461-470.
13. Chakravarty, A.K. and A. Shtub, "Strategic Allocation of Inspection Effort in A Serial, Multi-Product Production System," *IIE Transactions*, 1987, Vol. 19, No. 1, 13-22.
14. Chakravarty, A.K. and A. Shtub, "Capacity Cost and Scheduling Analysis for a Multi-Product Flexible Manufacturing Cell," *International Journal of Production Research*, 1987, Vol. 25, No. 8, 1143-1156.
15. Lau, H.S. and A. Shtub, "An Exploratory Study on Stopping a Paced Line When Incompletions Occur," *IIE Transactions*, 1987, Vol. 19, No. 4, 463-467.
16. Shtub, A., "Capacity Allocation and Material Flow in Planning Group Technology Cells," *Engineering Costs and Production Economics*, 1988, Vol. 13, 217-228.
17. Chakravarty, A.K. and A. Shtub, "Modeling the Effects of Learning and Job Enlargement on Assembly Systems with Parallel Lines," *International Journal of Production Research*, 1988, Vol. 26, No. 2, 267-282.
18. Shtub, A., "The Integration of CPM and Material Management in Project Management," *Construction Management and Economics*, 1988, Vol. 6, 261-272.
19. Shtub, A., I. Shpigler and A. Kapeluk, "Using DSS Methods in Selecting Operations Management Software," *Computer Integrated Manufacturing Systems*, 1988, Vol. 1, No. 4, 211-220.
20. Shtub, A. and E.M. Dar-El, "A Methodology for the Selection of Assembly Systems," *International Journal of Production Research*, 1989, Vol. 27, No. 1, 175-186.
21. Shtub, A., "Estimating the Effect of Conversion to a Group Technology Layout on the Cost of Material Handling," *Engineering Costs and Production Economics*, 1989, Vol. 16, 103-109.
22. Shtub, A., "Modeling Group Technology Cell Formation as a Generalized Assignment Problem," *International Journal of Production Research*, 1989, Vol. 27, No. 5, 775-782.

23. Globerson, S., N. Levin and A. Shtub, "The Impact of Breaks on Forgetting When Performing a Repetitive Task," *IIE Transactions*, 1989, Vol. 21, No. 4, 376–381.
24. Shtub, A., "Lot Sizing in MRP/GT Systems," *The International Journal of Production Planning and Control*, 1990, Vol. 1, No. 2, 40–44.
25. Shtub, A. and E.M. Dar-El, "An Assembly Chart Oriented Assembly Line Balancing Approach," *International Journal of Production Research*, 1990, Vol. 28, No. 6, 1137–1151.
26. Chakravarty, A. K. and A. Shtub, "Production Scheduling During Phased Implementation of Flexible Manufacturing Cells," *IIE Transactions*, 1990, Vol. 22, No. 4, 292–299.
27. Shtub, A., "Scheduling of Programs with Repetitive Projects," *Project Management Journal*, 1991, Vol. 22, No. 4, 49–53.
28. Maimon, O. and A. Shtub, "Grouping Methods for Printed Circuit Boards Assembly," *International Journal of Production Research*, 1991, Vol. 29, No. 7, 1379–1390.
29. Chakravarty, A.K. and A. Shtub, "The Effect of Learning on the Operation of Mixed Model Assembly Lines," *Production and Operations Management*, 1992, Vol. 1, No. 2, 198–211.
30. Bard, J., E.M. Dar El and A. Shtub, "An Analytic Framework for Sequencing Mixed Model Assembly Lines," *International Journal of Production Research*, 1992, Vol. 30, No. 1, 35–48.
31. Shtub, A., "Evaluation of Two Schedule Control Techniques for the Development and Implementation of New Technologies: A Simulation Study," *R&D Management*, 1992, Vol. 22, No. 1, 81–87.
32. Shtub, A. and O. Maimon, "The Role of Similarity Measures in PCB Grouping Procedures," *International Journal of Production Research*, 1992, Vol. 30, No. 5, 973–983.
33. Faaland, B., T.D. Klastorin, T.G. Schmitt and A. Shtub, "Assembly Line Balancing with Resource Dependent Task Times," *Decision Sciences*, 1992, Vol. 23, No. 2, 342–364.
34. Shtub, A., A. Levin and S. Globerson, "Learning and Forgetting Industrial Skills: An Experimental Model," *The Industrial Journal of Human Factors in Manufacturing*, 1993, Vol. 3, No. 3, 293–305.
35. Shtub, A. and Y. Zimmerman, "A Neural-Network Based Approach for Estimating the Cost of Assembly Systems," *International Journal of Production Economics*, 1993, Vol. 32, 189–207.
36. Shtub, A., "Increasing Efficiency of Assembly Lines through Computer Integration, Dynamic Balancing and Wage Incentive," *Computer Integrated Manufacturing Systems*, 1993, Vol. 6, No. 4, 273–277.
37. Shtub, A. and M. Simon, "Determination of Reorder Points for Spare Parts in a Two-Echelon Inventory System: The Case of Non-Identical Maintenance Facilities," *European Journal of Operational Research*, 1994, Vol. 73, 458–464.

38. Basu, A., N. Hyer and A. Shtub, "A Structured Approach to the Adoption of Group Technology," *International Journal of Manufacturing System Design*, 1994, Vol. 1, No. 1, 77–98.
39. Bard, J., A. Shtub and S.B. Joshi, "Sequencing Mixed-Model Assembly Lines to Level Parts Usage and Minimize Line Length," *International Journal of Production Research*, 1994, Vol. 32, No. 10, 2431–2454.
40. Shtub, A., "Distributed Database for Project Control," *International Journal of Project Management*, 1995, Vol. 13, No. 3, 173–176.
41. Basu, A., N. Hyer and A. Shtub, "An Expert System Based Approach to Manufacturing Cell Design," *International Journal of Production Research*, 1995, Vol. 33, No. 10, 2739–2755.
42. Globerson, S. and A. Shtub, "Estimating the Progress of Projects," *Engineering Management Journal*, 1995, Vol. 7, No. 3, 39–44.
43. Shtub, A., L.J. LeBlanc and Z. Cai, "Scheduling Programs with Repetitive Projects: A Comparison of Simulated Annealing, a Genetic and Pair-wise Swap Algorithm," *European Journal of Operational Research*, 1996, No. 88, 124–138.
44. Shtub, A. and T. Raz, "Optimal Segmentation of Projects - Schedule and Cost Considerations", *European Journal of Operational Research*, 1996, No. 95, 278–283.
45. Etgar, R., A. Shtub and L.J. LeBlanc, "Scheduling Projects to Maximize Net Present Value - The Case of Time-Dependent, Contingent Cash Flows," *European Journal of Operational Research*, 1996, No. 96, 90–96.
46. Shtub, A., "Project Segmentation - A Tool for Project Management," *International Journal of Project Management*, 1997, Vol. 15, No. 1, 15–19.
47. Kogan, K., A. Shtub and V.E. Levit, "DGAP - The Dynamic Generalized Assignment Problem," *Annals of Operations Research*, 1997, No. 69, 227–239.
48. Basu, A., R.W. Blanning and A. Shtub, "Metagraphs in Hierarchical Modeling," *Management Science*, 1997, Vol. 43, No. 5, 623–639.
49. Daskin, M., O.Z. Maimon, A. Shtub and D. Braha, "Grouping Components in Printed Circuit Board Assembly with Limited Component Staging Capacity and Single Card Setup: Problem Characteristics and Solution Procedures", *International Journal of Production Research*, 1997, Vol. 35, No. 6, 1617–1638.
50. Kaspi, M., A. Rabinovitz, A. Shtub and D. Sinriech, "Mapping the Organization - A Methodological Approach to Organizational Change Initiation", *Production Planning and Control*, 1997, Vol. 8, No. 7, 633–644.
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97. Masin, M., Y. Dubinsky, M. Iluz, E. Shindin and A. Shtub, "EMI: Engineering and Management Integrator", *Complex Systems Design & Management (CSD&M) Conference, Paris, November 2015.*
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100. Iluz, M., B. Moser, J. Oehmen, A. Shtub, "The Impact of Simulation Based Planning of the Fuzzy Front End Stage of a Project". *INCOSE-IL, International Conference on Systems Engineering, Herzliyya, Israel, 2015.*
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102. Balouka, Noemie Sellam, Avraham Shtub, Izack Cohen, "Extending the Multimode Resource-Constrained Project Scheduling Problem by Including Value Considerations", *21st Industrial Engineering and Management Annual Conference, Tel-Aviv, Israel 2017.*

Participation in Organizing Conferences:

1. Chairman Academic Committee, *14th SME Conference on Advanced Technologies in Engineering, Management and Production. Tel-Aviv, June 7–9, 1994.*

2. Co-Chairman International Program Committee, *2nd International Workshop on Intelligent Scheduling of Robots and Mechatronic Systems*. Holon, June, 1996.
3. Chairman, Program Committee, *2nd Israeli Conference on Project Management*, Tel Aviv, May 1998.
4. Chairman, *4th Israeli Industrial Engineering Research Meeting (IIERM)*, Maalot, March 4–5, 2009.
5. Member of Program Committees for the following conferences:
 - 5.1 *14th Israeli Conference on Advanced Technologies in Engineering, Management, and Production*, Society of Manufacturing Engineering (Israel, June 7–9, 1994).
 - 5.2 *28th International Symposium on Automotive Technology and Automation* (Stuttgart, Germany, September 18–22, 1995).
 - 5.3 *13th International Conference on Production Research* (Jerusalem, Israel, August 6–10, 1995).
 - 5.4 *CIEME, Israel Germany Bi-National Conference on Computer Integrated Extended Manufacturing Enterprise* (Tel Aviv, Israel, February 28–29, 1996).
 - 5.5 *Israel Hungary Bi-National Conference on Intelligent Manufacturing to Conserve the Environment* (Budapest, Hungary, November 3–7, 1996).
 - 5.6 *Sixth International Workshop on Project Management and Scheduling* (Istanbul, July 7–9, 1998).
 - 5.7 *3rd Israeli Conference on Project Management* (Tel Aviv, June 1999).
 - 5.8 *7th International Workshop on Project Management and Scheduling* (Osnabruck, Germany, April 2000).
 - 5.9 *8th International Workshop on Project Management and Scheduling* (Valencia, Spain, April 3–5, 2002).
 - 5.10 *9th Project Management and Scheduling Conference* (Nancy, France, April 22–29, 2004).
 - 5.11 *11th Project Management and Scheduling Conference* (Istanbul, Turkey, April 28–30, 2008).
 - 5.12 *12th International Workshop devoted to Project Management and Scheduling*, Tours (Loire Valley), France, April 26–28, 2010.
 - 5.13 POMS, Tel-Aviv, Israel, June 2017 Scientific Committee.