

CURRICULUM VITAE

AVRAHAM SHTUB

I.D. number: 5130837
Date of Birth: April 11, 1952, Israel
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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
Q METH 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

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 Hulon 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 te paper: "Service Science in Hospitals: A Research-Based Partnership for Innovating and Transforming Patients Care" with Marmor Y. , Mandelbaum A., Vasserkrug S., Carmeli B., Vortman P., Schwarts D. , Basis F., Assaf J. Gopher d., Auarbach-Shpak Y.

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 - "Management of Paper Reel Supply Chains using RFID Technology — A Cost-Savings Perspective" (with Y. Herer). Ph.D./IE, Technion.
- Ben Shabat, Shlomi - "Training Systems Engineers with Simulators". Msc./IE, Technion.

Theses in Progress:

- Iluz, Michal - "Simulator Based Training for Project Teams in Lean Project Management". Ph.D./IE, Technion.
- Tzimerman, Avinoam - "The Value of Information in Supply Chains"(with Y. Herer). Ph.D./IE, Technion.
- Aric, Kats - " Application of a Wizard of OZ Simulator in (Medical) Training". Ph.D./IE, Technion.
- Fareda Nassar - "Incorporating Metacognition into Usability Testing" (with Rakefet Ackerman). Msc./IE, Technion

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. Klastorin 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.
51. Arzi, A. and A. Shtub, "Learning and Forgetting in Mental and Mechanical Tasks: A Comparative Study", *IIE Transactions*, 1997, Vol. 29, No. 9, 759–768.
52. Shtub, A. and R. Etgar, "A Branch and Bound Algorithm for Scheduling Projects to Maximize Net Present Value, The Case of Time-Dependent, Contingent Cash Flows", *International Journal of Production Research*, 1997, Vol. 35, No. 12, 3367–3378.
53. Kogan, K., E. Khelnitsky, A. Shtub and O. Maimon, "Optimal Flow Control of Flexible Manufacturing Systems: Setup Localization by an Iterative Procedure", *International Journal of Production Economics*, 1997, Vol. 51, 37–46.
54. Shtub, A. and K. Kogan, "Capacity Planning by the Dynamic Multi-Resource Generalized Assignment Problem (DMRGAP)", *European Journal of Operational Research*, 1998, No. 105, 91–99.
55. Parush, A., R. Nadir and A. Shtub, "Evaluating the Layout of Graphical User Interface Screens: Validation of a Numerical Computerized Model", *International Journal of Human-Computer Interaction*, 1998, Vol. 10, No. 4, 343–360.
56. Kogan, K. and A. Shtub, "Scheduling Projects with Variable-Intensity Activities: The Case of Dynamic Earliness and Tardiness Costs", *European Journal of Operational Research*, 1998, Vol. 118, No. 1, 65–80.

57. Etgar, R. and A. Shtub, "Scheduling Project Activities to Maximize the Net Present Value - The Case of Linear Time-Dependent Cash Flows", *International Journal of Production Research*, 1999, Vol. 37, No. 2, 329–339.
58. LeBlanc, L.E., A. Shtub and G. Anadalingam, "Formulating and Solving Production Planning Problems", *European Journal of Operational Research*, 1999, No. 112, 54–80.
59. Shtub, A. and R. Versano, "Estimating the Cost of Steel Pipe Bending, A Comparison Between Neural Networks and Regression Analysis", *International Journal of Production Economics*, 1999, Vol. 62, 201–207.
60. Shtub, A., "A Framework for Teaching and Training in the Enterprise Resource Planning (ERP) Era", *International Journal of Production Research*, 2001, Vol. 39, No. 3, 567–576.
61. Parush, A., A. Shtub and D. Shavit, "The Application of Project Control Techniques to Process Control: The Effect of Temporal Information on Human Monitoring Tasks", *Transactions on Control, Automation and Systems Engineering*, 2001, Vol. 3, No. 1, 10–14.
62. Bukchin, J., R. Luquer and A. Shtub, "Learning in Tele Operations", *IIE Transactions*, March 2002, Vol. 34, No. 3, 245–252.
63. Parush, A., H. Hamm and A. Shtub, "Learning Histories in Simulation-based Teaching: The Effects on Self-Learning and Transfer", *Computers & Education*, 2002, Vol. 39, 319–332.
64. Cohen, I., A. Mandelbaum and A. Shtub, "Multi-Project Scheduling and Control: A Process-Based Comparative Study of the Critical Chain Methodology and Some Alternatives", *Project Management Journal*, 2004, Vol. 35, No. 2, 39–50.
65. Cohen, I., B. Golany and A. Shtub, "Managing Stochastic, Finite Capacity, Multi-Project Systems through the Cross Entropy Methodology", *Annals of Operations Research*, 2005, Vol. 134, 183–199.
66. Parush, A., Y. Schwartz, A. Shtub and J.M. Chandra, "The Impact of Visual Layout Factors in Web Pages: A Cross-Language Study", *Human Factors*, Spring 2005, Vol. 47, No. 1, 141–157.
67. Feldman, P. and A. Shtub, "Model for Cost Estimation in a Finite-Capacity Environment", *International Journal of Production Research*, 2006, Vol. 44, No. 2, 305–327.
68. Eilat, H., B. Golany and A. Shtub, "Constructing and Evaluating Balanced Portfolios of R&D Projects with Interactions: A DEA Based Methodology", *European Journal of Operational Research*, 2006, Vol. 172, 1018–1039.
69. Parush, A., L. Davidovitz and A. Shtub, "Simulation-based Learning in Engineering Education: Performance and Transfer in Learning Project Management", *Journal of Engineering Education*, October 2006, 289–299.
70. Regev, S., A. Shtub and Y. Ben-Haim, "Managing Project Risks as Knowledge Gaps", *Project Management Journal*, December 2006, Vol. 37, No. 5, 17–25.

71. Parush, A., A. Hod and A. Shtub, "Impact of Visualization Type and Contextual Factors on Performance with Enterprise Resource Planning Systems", *Computers & Industrial Engineering*, February 2007, Vol. 52, No. 1, 133–142.
72. Cohen, I., B. Golany and A. Shtub, "Resource Allocation in Stochastic, Finite-Capacity, Multi-Project Systems through the Cross Entropy Methodology", *Journal of Scheduling*, June 2007, Vol. 10, No. 3, 181–193.
73. Cohen, I., B. Golany and A. Shtub, "The Stochastic Time-Cost Tradeoff Problem: A Robust Optimization Approach", *Networks*, 2007, Vol. 49, No. 2, 175–188.
74. Davidovitch, L., A. Parush and A. Shtub, "Simulation-based Learning: The Learning-Forgetting-Relearning Process and Impact of Learning History", *Computers & Education*, April 2008, Vol. 50, No. 3, 866–880.
75. Eklin, M., Y. Arzi and A. Shtub, "Rough-Cut Cost Estimation in a Capacitated Environment", *International Journal of Information Systems and Supply Chain Management*, April–June 2008, Vol. 1, No. 2, 19–39.
76. Eilat, H., B. Golany and A. Shtub, "Evaluating R&D Projects: An Integrated DEA-BSC Approach", *Omega*, 2008, Vol. 36, 895–912.
77. Eklin, M., Y. Arzi and A. Shtub, "Model for Cost Estimation in a Finite-Capacity Stochastic Environment Based on Shop Floor Optimization Combined with Simulation", *European Journal of Operational Research*, 1 April 2009, [Vol. 194, No. 1](#), 294–306.
78. Eklin, M., Y. Arzi and A. Shtub, "A Comparative Study of Rough-Cut Cost Estimation in a Finite-Capacity Stochastic Environment", *International Journal of Revenue Management*, 2009, Vol. 3, No. 1, 1–36.
79. Davidovitch, L., A. Parush and A. Shtub, "The Impact of Functional Fidelity in Simulator based Learning of Project Management", *International Journal of Engineering Education*, March 2009, Vol. 25, No. 2, 333–340(8).
80. Nembhard, D., K. Yip and A. Shtub, "Comparing Competitive and Cooperative Strategies for Learning Project Management", *Journal of Engineering Education*, April 1, 2009, 181–192.
81. Shtub, A., A. Parush and T. Hewett, "Guest Editorial: The Use of Simulation in Learning and Teaching", *International Journal of Engineering Education*, March 2009, Vol. 25, No. 2, 206–209.
82. Parush, A., L. Davidovitch and A. Shtub, "Simulator-based Team Training to Share Resources in a Matrix Structure Organization", *IEEE Transactions on Engineering Management*, Vol. 57, No. 2, May 2010, 288–300.
83. Ben-Gal, I., M. Wangenheim and A. Shtub, "A New Standardization Model for Physical Staffing at Hospitals", *International Journal of Productivity & Performance Management*, Vol. 59, No. 8, 2010, 769–791.
84. Vanhoucke, M. and A. Shtub. "Adding Value to Earned Value Analysis", *PM World Today*, Vol. XIII, Issue I, January 2011.

85. Zeltyn, S., Marmor, Y., Mandelbaum, A., Carmeli, B., Greenshpan, O., Mesika, Y., Wasserkrug, S., Vortman, P., Shtub, A., Lauterman, T., Schwartz, D., Moskovitch, K., Tzafrir, S. and Basis, F. "Simulation-Based Models of Emergency Departments: Operational, Tactical and Strategic Staffing", *ACM Transactions on Modeling and Computer Simulation (TOMACS)*, Vol. 21, Issue 4, Article number 24, August 2011. Downloadable from: <<http://ie.technion.ac.il/serveng>>.
86. Hazir, Ö. and Shtub, A. "Effects of the Information Presentation Format on Project Control", *Journal of the Operational Research Society*, Vol. 62, No. 12, December 2011, 2157–2161.
87. Avrahami, A., Herer, Y. Shtub, A., "Printing House Paper Reel Management, An RFID enabled Information Rich Approach" *Journal of Theoretical and Applied Electronic Commerce Research*. Vol 8 , No 2 , August 2013 / 96.
88. Ravid, S., Shtub, A., Rafaeli, A., Glikson E., "From Project Management to Team Integration: Key Issues in the Management of the Human Resource in Projects", *Foundations and Trends® in Technology, Information and Operations Management* 6.2 (2013): 89-160.
89. Cohen I., Iluz, M., and Shtub A., " A Simulation-Based Approach in Support of Project Management Training for Systems Engineers". *Systems Engineering* (2013).
90. Shtub, A., "Simulation Based Training (SBT) – the Next Generation of Project Management Training" *.PM World Journal* ,Vol. II, Issue XI – November 2013.
91. Zwikael, O; Shtub, A. and Chih, Y., "Simulation-Based Training for Project Management Education: Mind the Gap, As One Size Does Not Fit All" *Journal of Management in Engineering, Forthcoming*

Publications in Hebrew:

1. Shtub, A., "Using Group Technology for Reengineering of the Plant Layout", *Engineering*, 1986, Vol. 5, 4–7.
2. Shtub, A. and U. Yevarchiyahu, "Human Resource Project Management by Concurrent Engineering", *Human Resources*, 1996, Vol. 9, No. 99, 10–12.
3. Shtub, A., "A Production Management Lab Trains Industrial Engineers for Competitive Organizations", *Executive*, 1997, No. 18, 14–16.
4. Arzi, A. and A. Shtub, "Learning and Forgetting in Cognitive Tasks", *Industry and Management*, 1997, Vol. 37, 16–26.

Professional Reports:

Numerous professional reports on Project Management, Production Planning and Control, ERP systems implementation.

Edited Proceedings:

1. Shtub, A. and I. Marmur, Editors, *Advanced Technologies in Engineering, Management and Production, Proceedings of the 14th SME Conference*, Tel-Aviv, 1994.
2. Krause, F.I., A. Shtub and M. Shpitalni, Editors, *Computer Integrated Extended Manufacturing Enterprise, Proceedings of the Israel-Germany Bi-National Conference*, Tel Aviv, 1996.
3. Shtub, A., Editor, *Proceedings of the 2nd Israel Conference on Project Management*, Tel-Aviv, 1998.

Editor:

Raz, T. and A. Shtub, Guest Editors, Special Issue on Project Management, *The International Journal of Industrial Engineering*, Vol. 6, Nov. 1999.

Books:

1. Globerson, S. and A. Shtub, *Project Management*, Tcherikover 1992 (in Hebrew).
2. Shtub, A., J. Bard and S. Globerson, *Project Management, Engineering Technology and Implementation*, Prentice Hall, 1994. The book was selected to receive the 1995 IIE Joint Publishers "Book-of-the-Year Award" of the Institute of Industrial Engineers.
Reviews of the book were published by:
Huston, R., in the *International Journal of Industrial Engineering*, Vol. 1. No. 4, 1994, p. 315.
Balachandra, R., in *Interfaces*, Vol. 25, No. 4, 1995, pp. 128–130.
Lock, D., in *The International Journal of Project Management*, Vol. 14, No. 2, 1996, pp. 125–126.
Klastorin, D.K., in *IEEE Transactions on Engineering Management*, Vol. 42, No. 4, 1995, pp. 423–424.
The book was adopted by many universities including:
Stanford University, Purdue University, University of Wisconsin-Madison, University of California-Berkeley, University of Texas-Austin, Vanderbilt University.
3. Shtub, A., *From Operations Management to Plant Management: Putting MRP/ERP Systems to Work*, Tcherikoler, 1997 (in Hebrew).
4. Shtub, A., *Enterprise Resource Planning (ERP): The Dynamics of Operations Management*, Kluwer Academic Publishers, Boston, March 1999. The book was published in Chinese by Harvard Management Services.
5. Keogh, J., A. Shtub, J.F. Bard and S. Globerson, *Project Planning and Implementation*, Pearson Custom Publishing, 1999.
6. Shtub, A.F., J.F. Bard and S. Globerson, *Project Management: Processes, Methodologies, and Economics, 2/E*, Prentice Hall, October 2004.
7. Globerson, S. and A. Shtub, *Project Management Planning, Execution and Control*, Dyonon Publishers, 2004 (in Hebrew).
8. Shtub, A., *Introduction to Industrial Engineering*, Vol. I and Vol. II, Open University Books, 2004 (in Hebrew).
9. Shtub, A., Y. Cohen and B. Karen, *Project Management for Industrial Engineers – A Study Guide*, Vol. I and Vol. II, Open University Books, 2008 (in Hebrew).
10. Globerson, S., A. Shtub, and O. Zwikael, *Project Management Planning, Execution and Control*, Dyonon Publishers, 2009 (in Hebrew).
11. Shtub, A., and R. Karni, *ERP: The Dynamics of Supply Chain and Process Management*, Springer, 2011.
12. Shtub, A., *Project Management Simulation with PTB Project Team Builder*, Springer, 2012.

Chapters in Books:

1. Chakravarty, A.K. and A. Shtub, "Integration of Assembly Robots in a Flexible Assembly System", in *Flexible Manufacturing Systems: Methods and Studies-Studies in Management Science and Systems*, Ed. A. Kusiak, North Holland, New York (1986).
2. Dov, M. and A. Shtub, "The Assignment of Models to Mixed Model Assembly Lines", *Recent Developments in Production Research*, Ed. Anil Mital, Elsevier Science Publishers (1989).
3. Shtub, A. and Y. Zimmerman, "Estimating the Cost of Robotic and Manual Assembly Systems by a Neural Network", in *Intelligent Engineering Systems Through Artificial Neural Networks*, Eds. C.H. Dagli, S.R. Kumara and Y.C. Shin, ASME Press (1991), 801-806.
4. Arzi, Y. and A. Shtub, "Learning and Forgetting in High Cognitive Tasks", in *Advances in Applied Ergonomics*, Eds. A.E. Ozok and G. Salvendy, U.S.A. Publishing (1996), 672-675.
5. Shtub, A., "Project Management cycle – Processes Used to Manage Projects", in the *Handbook of Industrial Engineering*, 3rd edition, John Wiley (2001).
6. Golany, B. and Shtub, A., "Work Breakdown Structure", in the *Handbook of Industrial Engineering*, 3rd edition, John Wiley (2001).
7. Eklin, M., Arzi, Y. and Shtub, A., "Cost Estimation in a Capacitated Environment" (Chapter 2), in *Innovations in Supply Chain Management for Information Systems: Novel Approaches*, Ed. J. Wang, Business Science Reference (an imprint of IGI Global) (2010).
8. Verner, I., Gamer, S., & Shtub A. "Fostering students' spatial skills through practice in operating and programming robotic cells" .. J.-H. Kim et al. (Eds.): Robot Intelligence Technol. & Appl. 2012, AISC 208, pp. 745–752.

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.

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.

Active Participation in National and International Conferences

Numerous presentations in National and International conferences including presentations of the papers listed in the refereed conference proceedings, invited lectures, participation in scientific panels in conferences. Presentations in special workshops on Project Management in the U.S.A., Brazil, Thailand, and Israel, and presentation of papers in international conferences that do not publish proceedings.

Refereed Conference Proceedings:

1. Chakravarty, A.K. and A. Shtub, "Total Variable Cost Minimization for Mixed Model Production Lines with Stochastic Task Time", *Proceedings of AIDS National Conference*, November 1983.
2. Chakravarty, A.K. and A. Shtub, "Selecting Parts and Loading Flexible Manufacturing Systems", *Proceedings ORSA/TIMS First Special Interest Conference on Flexible Manufacturing Systems*, August 1984.
3. Lau, H.S. and A. Shtub, "Employee Motivation and Dynamic Balancing of Assembly Lines", *Proceedings of AIDS National Conference*, November 1984.

4. Chakravarty, A.K. and A. Shtub, "The Use of Group Technology Concepts in Scheduling Flexible Manufacturing Systems", *Proceedings of AIDS National Conference*, November 1984.
5. Chakravarty, A.K. and A. Shtub, "Product Flexible Production Lines with Process Flexible Machining Cells", *Proceedings of AIDS National Conference*, November 1985.
6. Chakravarty, A.K. and A. Shtub, "Production Planning with Flexibilities in Capacity", *Proceedings ORSA/TIMS Second Conference of Flexible Manufacturing Systems: Operations Research Models and Applications*, August 1986.
7. Shtub, A., "Material Management in Projects-Cost and Risk Analysis", *Proceedings of the Fourth Conference of Industrial Engineering and Management*, Tel Aviv, March 1986.
8. Moshe, D., A. Shtub and E.M. Dar-El, "The Assignment of Models to Mixed Model Assembly Lines", *Proceedings of the Ninth Israel Convention on CAD/CAM and Robotics*, Tel Aviv, December 1987.
9. Asseo, R., S. Globerson, N. Levin and A. Shtub, "Forgetfulness Curves Characterization - Results of a Laboratorial Research in the Computerized Office Environment", *Proceedings of the Fifth Conference of Industrial Engineering and Management*, Beer Sheva, 1988.
10. Simon, M. and A. Shtub, "Determination of Order Point for an Item in a Two Echelon Inventory System to Achieve Maximum Service Levels Under Constraints", *Proceedings of the Sixth Conference of Industrial Engineering and Management*, Hertzlia, April 1990.
11. Grinman, A. and A. Shtub, "The Development of a Multi-Layer Model for Project Management", *Proceedings of the Sixth Conference of Industrial Engineering and Management*, Hertzlia, April 1990.
12. Shtub, A. and E.M. Dar-El, "An Integrated Approach for the Selection of Assembly Systems", *Proceedings of the 11th ICPR*, August 1991, Hefei, China.
13. Shtub, A. and O. Maimon, "Automated Assembly of Printed Circuit Boards - Set up Time Reduction by Group Technology Approach", *Proceedings of the 11th ICPR*, August 1991, Hefei, China.
14. Shtub, A. and Y. Zimmerman, "Estimating the Cost of Robotic and Manual Assembly Systems by a Neural Network", *Proceedings of ANNIE 91-Artificial Neural Networks In Engineering*, November 1991, St. Louis, Missouri.
15. Dov, M. and A. Shtub, "An Investigation of a Simple Logistic Model", *Proceedings of the Seventh Conference of Industrial Engineering and Management*, April 1992, Haifa, Israel.
16. Dov, M. and A. Shtub, "The Design of a Multi-Model Assembly System for Medical Kits", *Proceedings of the 6th International Conference on CAD/CAM Robotics and Factories of the Future*, August 1991, London, and *Proceedings of the Seventh Conference of Industrial Engineering and Management*, April 1992, Haifa, Israel.
17. Basu, A., Hyer, W.L. and Shtub A, "Managerial and Technical Considerations in the Adoption of Group Technology", *Proceedings of the 9th International Conference on CAD/CAM Robotics and Factories of the Future*, August 1993, Newark, NJ, U.S.A.

18. Dov, M. and A. Shtub, "A Multi-Model Assembly System for Medical Kits", *Proceedings of the 3rd IERC*, London, U.K., 1994.
19. Etgar, R. and A. Shtub, "Scheduling Projects to Maximize the Net Present Value", *Proceedings of the 8th Conference of Industrial Engineering and Management*, April 1994, Beer-Sheva, Israel.
20. Yekuel, A. and A. Shtub, "Sequencing and Scheduling PCBs on Two-Insertion Machines in Sequence", *Proceedings of the 14th SME Conference*, June 1994, Tel-Aviv, Israel.
21. Kogan, K., E. Khmelnsky, A. Shtub and O. Maimon, "An Optimal Control Scheduling Method for Setup Localization", *Proceedings of 13th ICPR Conference*, August 1995, Jerusalem, Israel.
22. Globerson, S. and A. Shtub, "Effective Measurement of Project Progress", *Proceedings of PMI 1995 Conference*, October 1995, New Orleans, USA.
23. Kogan, K., E. Khmelnsky, A. Shtub and O. Maimon, "An Optimal Flow Control Approach for Setup Scheduling," *Proceedings of the First International Workshop on Intelligent Scheduling of Robots and Flexible Manufacturing Systems*, July 1995, Holon, Israel.
24. Arzi, Y. and A. Shtub, "Learning and Forgetting in the CAD Environment," *Proceedings of the Israel-Germany Bi-National Conference*, February 1996, Tel-Aviv, Israel.
25. Shtub, A. and K. Kogan, "Scheduling by the Dynamic Multi-Resource Generalized Assignment Model", *Proceedings of the Israel-Germany Bi-National Conference*, February 1996, Tel-Aviv, Israel.
26. Arzi, Y. and A. Shtub, "Learning and Forgetting in High Cognitive and Low Cognitive Tasks", *Proceedings of the First International Conference on Applied Ergonomics (ICAE 96)*, May 1996, Istanbul, Turkey.
(Also in *Advances in Applied Ergonomics*, Eds. A.F. Ozok and G. Salvendy, U.S.A. Publishing, 1996).
27. Shtub, A., D. Peled and A. Masad, "Training as a Critical Factor in the Implantation of Project Management", *3rd Training Conference*, June 1996, Zichron Yaakov, Israel.
28. Shmilovici, A. and A. Shtub, "A Prototype Fuzzy System for Estimating the Cost of Assembly Systems", *Fuzzy 97, International Conference on Fuzzy Logic and Applications*, May 1997, Zichron Ya'akov, Israel.
29. Shtub, A., "Production Planning and Control - A New Teaching Approach", *Tenth International Working Seminar on Production Economics*, February 1998, Ingels, Austria.
30. Shtub, A., "The Use of Simulators for Teaching Management and Technology", *5th Training Conference*, May 1998, Zichron Yaakov, Israel.
31. Shtub, A. and S. Elran,, "Project Control in the Construction and Infrastructure Industries", *Proceedings of the 2nd Israeli Conference on Project Management*, May 1998, Tel Aviv, Israel.

32. Shtub, A., "Selection and Implementation of ERP Systems", *Proceedings of the 10th Conference of Industrial Engineering and Management*, June 1998, Haifa, Israel.
33. Shtub, A., "Teaching Project Management by a Simulator", *Proceedings of the 10th Conference of Industrial Engineering and Management*, June 1998, Haifa, Israel.
34. Shtub, A., "Forming Teams and Training in ERP Projects", *Proceedings of 3rd Israel Conference on Project Management*, June 1999, Tel Aviv, Israel.
35. Eilat, H., Golany, B. and A. Shtub, "Control Based on Relative Comparisons in a Multi Project Technological Environment", *Proceedings of the 3rd Israel Conference on Project Management*, June 1999, Tel Aviv, Israel.
36. Rott, M., Spector, R., Rozanes, S. and Shtub, A., "Definition and Implementation of a Project Management Methodology in Taas Givon", *Proceedings of the 3rd Israel Conference on Project Management*, June 1999, Tel Aviv, Israel.
37. Shtub, A., "Teaching Production/Operations Management in the ERP Era", *Proceedings of SE/DSI 2000*, February 2000, Wilmington, NC, USA.
38. Eilat, H., Golany, B. and Shtub, A., "Comparative Analysis Based Control of Projects in Technological Environments", *The 3rd European Project Management Conference*, June 2000, Jerusalem, Israel.
39. Shtub, A., "New Methods in Engineering Education", *11th Israeli Conference on I.E.*, May 2000, Beer-Sheva, Israel.
40. Eilat, H., B. Golany and A. Shtub, "Comparative Analysis Based Control of Projects in Technological Environments", *7th International Workshop on Project Mgt. and Scheduling (PMS 2000)*, April 2000, Osnabrueck, Germany.
41. Morris, J.A., N.L. Hyer and A. Shtub, "Cellular Design of Health Care Facilities – Principles, Feasibility and a Medical Informatics: Funding", *International Symposium, The Galil Center for Telemedicine and Medical Informatics Funding*, December 6, 2000, Haifa, Israel.
42. Morris, J.A., N.L. Hyer and A. Shtub, "Cellular Design of Health Care Facilities – Principles, Feasibility and a Medical Informatics, 2nd Conference of National Board on Logistics in Health Care", March 2001, Beer Sheva, Israel.
43. Eilat, H., B. Golany and A. Shtub, "Control of R&D Projects in a Multi-Project Environment", *5th PMI Conference "Managing Project in a Changing Environment"*, May 21, 2001, Tel Aviv, Israel.
44. Eilat, H., B. Golany and A. Shtub, "A Methodology for R&D Portfolio Analysis: Employing an Integrated DEA and B.Sc. Model", *8th Workshop on Project Management and Scheduling*, April 3-5, 2002, Valencia, Spain.
45. Shtub, A. and U. Cantor, "Selecting the Medical Technologies for the Israeli Public under the National Health Law", *The 2nd International Symposium of the Galil Center for Telemedicine and Medical Informatics*, March 6-7, 2002, Haifa, Israel.

46. Shachar, S., E.M. Dar-El and A. Shtub, "Estimating the Influence of Breaks on the Performance of Computer Programmers", *12th Industrial Engineering and Management Conference*, March 12-13, 2002, Tel-Aviv, Israel.
47. Karpovskii, I., B. Golany and A. Shtub, "Setting Priorities by Relative Comparisons among Infrastructure Projects", *12th Industrial Engineering and Management Conference*, March 12-13, 2002, Tel-Aviv, Israel.
48. Eilat, H., B. Golany and A. Shtub, "A Methodology for Constructing and Evaluating Portfolios of R&D Projects", *1st Research Conference on Industrial Engineering and Management*, March 24, 2003, Tel Aviv, Israel.
49. Cohen, I. and A. Shtub, "Critical Chain Multi-Project Scheduling and Control: A Simulation Study", *1st Research Conference on Industrial Engineering and Management*, March 24, 2003, Tel Aviv, Israel.
50. Levy, G., Y. Ben-Haim and A. Shtub, "Managing Uncertainty in a Project Environment – The Knowledge Gap Approach", *7th Conference of Israeli Chapter, Project Management Institute*, May 21, 2003, Tel Aviv, Israel.
51. Golany, B., H. Eilat and A. Shtub, "A Methodology for Constructing and Evaluating Portfolios of R&D Projects", *EURO/Informs Joint International Conference*, July 6-10, 2003, Istanbul, Turkey.
52. Shachor, S., E. Dar-El and A. Shtub, "Learning and Forgetting in the Computer Industry", *17th ICPR Conference*, July 2003, Blacksburg, VA, USA.
53. Cantor, U. and A. Shtub, "Evaluation and Selection of Medical Health Technologies: A Group Decision Support System", *International Society for Pharmacoeconomics and Outcomes Research 6th Annual European Congress*, November 9-11, 2003, Barcelona, Spain.
54. Eklun, M. and A. Shtub, "Approximate Cost Estimate in a Limited Capacity Setting", *13th Industrial Engineering and Management Conference*, March 16-17, 2004, Tel Aviv, Israel.
55. Feldman, P. and A. Shtub, "Building and Evaluating a Deterministic Model for Cost Estimating", *13th Industrial Engineering and Management Conference*, March 16-17, 2004, Tel Aviv, Israel.
56. Nir, M. and A. Shtub, "Management of a Multi-Project Dynamic System Under Resource Constraints – A Profit-Based Algorithm", *13th Industrial Engineering and Management Conference*, March 16-17, 2004, Tel Aviv, Israel.
57. Davidovitz, L. and A. Shtub, "Simulation-Based Learning in Industrial Engineering", *13th Industrial Engineering and Management Conference*, March 16-17, 2004, Tel Aviv, Israel.
58. Cohen, I., B. Golany and A. Shtub, "Managing Stochastic, Finite Capacity, Multi-Project Systems Through the Cross-Entropy Methodology", *8th Project Management and Scheduling Conference*, April 22-29, 2004, Nancy, France.
59. Shtub, A., "The Project Management Trainer", *8th Project Management and Scheduling Conference*, April 22-29, 2004, Nancy, France.

60. Shtub, A., "PMT - The Project Management Trainer", *The PMI Global Congress 2005 - Asia Pacific*, February 21-23, 2005, Singapore.
61. Cohen, I., B. Golany and A. Shtub, "The Stochastic Time-Cost Tradeoff Problem: A Robust Optimization Approach", *IIERM – Israel Industrial Engineering Research Meeting*, March 14, 2005, Tel-Aviv, Israel.
62. Davidovitch, L., A. Shtub and A. Parush, "PMT - The Project Management Simulator", *IIERM – Israel Industrial Engineering Research Meeting*, March 14, 2005, Tel-Aviv, Israel.
63. Eklin, M., Y. Arzi and A. Shtub, "Deterministic Model for Rough-Cut Cost Estimation in a Capacitated Environment", *German-Israeli Symposium for Design and Manufacture*, July 7-8, 2005, Berlin, Germany.
64. Eklin, M., Y. Arzi and A. Shtub, "Cost Estimation in a Capacitated Environment", *14th Industrial Engineering and Management Conference*, March 20-21, 2006, Tel Aviv, Israel.
65. Davidovitz, L., A. Parush and A. Shtub, "The Impact of Simulators on Reducing Forgetting in the Learning Process", *14th Industrial Engineering and Management Conference*, March 20-21, 2006, Tel Aviv, Israel.
66. Eklin, M., Y. Arzi, A. Shtub, M.J. Chandra and Y. Ge, "Cost Estimate in a Finite-Capacity Environment with Stochastic Processing Times, Machine Failures and Yields of Products", *The 3rd Israeli Industrial Engineering Research Meeting*, Tel Aviv, March 20, 2007.
67. Davidovitch, L., A. Shtub and A. Parush, "Project Management Simulation-Based Learning for Systems Engineering Students", *IEEE/INCOSE – International Conference on Systems Engineering and Modeling, ICSEM'07*, Haifa, March 22, 2007.
68. Davidovitch, L., A. Parush, A. Shtub, "Simulation-Based Team-Learning of Multi-Project Management", *2008 Israel-Germany Bi-National Symposium*, February 24–28, 2008, Tel Aviv, Israel.
69. Ben Gal, I., L. Sheiman, M. Wangenheim, N. Fussfeld and A. Shtub, "Work Sampling and Time Analysis of Physicians in Israeli Hospitals: Towards Manpower Stuffing Standardization", *15th Industrial Engineering and Management Conference*, March 20-21, 2008, Tel Aviv, Israel.
70. Davidovitch, L., A. Shtub and A. Parush, "Managing Projects in a Matrix Organization: Simulation Based Training", *PMS 2008*, April 29, 2008, Istanbul, Turkey.
71. Shtub, A. and S. Rozenes, "Does Project Management Methodology Improve Project Performance", *PMS 2008*, April 29, 2008, Istanbul, Turkey.
72. Davidovitch, L., A. Shtub and A. Parush, "Managing Projects in a Matrix Organization: Simulation Based Training", *Proceedings of the 9th Biennial ASME Conference on Engineering Systems Design and Analysis ESDA 2008*, July 7-9, 2008, Haifa, Israel.
73. Ravid, S., A. Shtub and A. Rafaeli, "The Management of Distributed Project Teams: A Ph.D. Research Proposal", *Proceedings of the 4th Israeli Industrial Engineering Research Meeting (IIERM)*, March 4–5, 2009, Maalot, Israel.

74. Marmor, Y.N. (Technion Israel Institute of Technology), S. Wasserkrug, S. Zeltyn, Y. Mesika, O. Greenshpan, B. Carmeli, A. Shtub and A. Mandelbaum, *2009 Winter Simulation Conference*, December 13–16 2009, Austin, Texas.
75. Avrahami, A., Y.T. Herer and A. Shtub, "The Paper Reel Supply Chain: An RFID-Enabled Information-Rich Approach", *Proceedings of the MSOM Supply Chain Management SIG 2009 Conference*, June 28, 2009, MIT, USA.
76. Shtub, A., "Teaching Project Management with PTB - Project Team Builder", *12th International Workshop devoted to Project Management and Scheduling*, Tours (Loire Valley), France, April 26-28, 2010.
77. Ravid, S., A. Shtub, A. Rafaeli and Y. Dubinsky, "The Contribution of Project Management Techniques to Effective Team Processes through the Development of a Shared Understanding among Team Members", *The 5th Israeli Industrial Engineering Research Meeting*, Dead Sea, Jan. 31, 2011.
78. Vanhoucke, M. and A. Shtub, "Adding Value to Earned Value Analysis", *POMS 22nd Annual Conference*, Reno, Nevada, U.S.A., April 29–May 2, 2011.
79. Shtub, A., "New Frontiers in Training", *POMS 22nd Annual Conference*, Reno, Nevada, U.S.A., April 29–May 2, 2011.
80. Shtub, A., "Teaching Project Management with PTB Project Team Builder", *POMS 22nd Annual Conference*, Reno, Nevada, U.S.A., April 29–May 2, 2011.
81. Avrahami, A., A. Tzimerman, Y.T. Herer and A. Shtub, "The Value of Accurate Inventory Information in Supply Chain Management", *MSOM 2011*, June 26–28, 2011, University of Michigan Ross School of Business, Michigan, U.S.A.
82. Avrahami, A., Zimerman, A., Y. T. Herer and A. Shtub. The Value of Inventory Accuracy in Supply Chain Management. *MSOM June 17- 19, 2012*, Supply chain SIG, Columbia University N.Y U.S.A.
83. Zwikael, O., A. Shtub and Y.-Y. Chih, "The Moderating Effect of Individual Differences on the Effectiveness of Simulation-Based Training", *2012 Academy of Management Annual Meeting*, Boston, Massachusetts, August 3–7 .
84. Zwikael, O., A. Shtub and Y.-Y. Chih, "Simulation-Based Training in Project Management Education – The Moderating Effect of Individual Differences on Learning Outcomes Realization", *PMI Research and Education Conference*, Limerick, Ireland, July 15–18, 2012 (accepted for presentation).
85. Iluz, m., A. Shtub., "Simulator Based Training to Improve Tradeoffs Analysis and Decision Making in Lean Development Environment" ., *Apms 2013 International Conference*, State College, USA, Septemebr 9-12, 2013.
86. Iluz, m., A. Shtub., "Development of shared understanding among project stakeholders: a new methodology for agile project management" *IPMA 2013 World Congress, Dubrovnik , Croatia, September 30 to Octoebr3rd*

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.