

GEORGE LIBEROPOULOS

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Professor of Stochastic Methods in Production Management

University of Thessaly (UTH), School of Engineering
Department of Mechanical Engineering
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PERSONAL INFORMATION

Date of Birth: 29 April 1963
Place of Birth: Athens, Greece
Family Situation: Married, two children

SCIENTIFIC INTERESTS

Production/Operations Management, Operations Research, Applied Probability, Automatic Control.

EDUCATION

Earned Degrees

- Ph.D., Manufacturing Engineering – Boston University, USA, 1993.
[Advisor: Professor Michael Caramanis]
- M.Eng., Mechanical Engineering – Cornell University, USA, 1986.
- B.S., Mechanical Engineering – Cornell University, USA, 1985.

Fellowships/Scholarships

- Training & Mobility of Researchers Fellowship, Commission of the European Communities, 1996.
- Human Capital & Mobility Research Fellowship, Commission of the European Communities, 1994 – 1996.
- Postdoctoral Fellowship in Science and Engineering, National Science Foundation – NATO, 1995 – 1996 (not used).
- Research Fellowship, National Science Foundation, 1988 – 1992.
- Graduate Research & Teaching in Engineering Fellowship, Boston University, 1991 – 1992.
- Karsten Fellowship, Boston University, 1988.
- Engineering Graduate Honor Scholarship, Boston University, 1988, 1989.

ACADEMIC POSITIONS

- Professor, Department of Mechanical Engineering, University of Thessaly, Greece, 2008 – present.
- Associate Professor, Department of Mechanical Engineering, University of Thessaly, Greece, 2003 – 2008.
- Assistant Professor, Department of Mechanical Engineering, University of Thessaly, Greece, 1996 – 2003.
- Visiting Researcher, Laboratoire de Méthodologie et Architecture des Systèmes Informatiques (currently Laboratoire d'Informatique de Paris 6 – CNRS), Université Pierre et Marie Curie (Paris IV), France, 1994 – 1996.
- Lecturer, Department of Manufacturing Engineering, Boston University, USA, 1993.
- Teaching and Research Assistant, Department of Manufacturing Engineering, Boston University, USA, 1988 – 1992.

PROFESSIONAL ACTIVITIES

Editorial Appointments

- Member, Editorial Board, *Flexible Services and Manufacturing Journal*, 2009 – present.
- Associate Editor, *IIE Transactions (Design and Manufacturing)*, 2006 – present.
- Co-editor, *OR Spectrum*, 2001 – 2009.
- Member, Advisory Board, *OR Spectrum*, 2010 – παρόν.
- Member of Editorial Board, *IIE Transactions (Design and Manufacturing)*, 1997 – 2006.
- Guest co-editor of a book and 6 special issues/volumes of scientific journals, 2000, 2004, 2005, 2008, 2009, 2011 (forthcoming) (see “Publications”).
- Chairman of Selection Committee for “Best Papers” in *IIE Transactions (Design and Manufacturing)*, 2006 – 2007.

Conference Organization

- Member of Program Committee and Associate Editor, *2010 IEEE Conference on Automation Science and Engineering (CASE 2010)*, Toronto, Canada, August 21-24, 2010.
- Member of Scientific Committee, *2009 World Congress on Engineering Asset Management (WCEAM 2009)*, Athens, Greece, September 28-30, 2009.
- Member of Program Committee and Associate Editor, *2009 IEEE Conference on Automation Science and Engineering (CASE 2009)*, Bangalore, India, August 22-25, 2009.
- Member of Scientific Committee, *7th Conference on Stochastic Models of Manufacturing and Service Operations*, Ostuni, Italy, June 7-12, 2009.
- Member of Scientific Committee, *19th National Conference of the Greek Society for Operations Research on OR in Supply Chain Management*, Arta, Greece, June 21-23, 2007.
- Member of Scientific Committee, *6th International Conference on Analysis of Manufacturing Systems*, Lunteren, The Netherlands, May 11-16, 2007.
- Member of Scientific Committee, *5th International Conference on Analysis of Manufacturing Systems–Production Management*, Zakynthos Island, Greece, May 20-25, 2005.
- Member of Scientific Committee, *4th Aegean International Conference on Analysis of Manufacturing Systems*, Samos Island, Greece, July 1-4, 2003.
- Member of Scientific Committee and Session Chairman, *16th National Conference of the Greek Society for Operations Research on Project Management*, Larissa, Greece, Sept. 25-27, 2003.
- Session Chairman, *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July 6-10, 2003.

Referee/Reviewer

- Referee for scientific journals: *Annals of Operations Research* • *Applied Mathematical Modelling* • *Applied Mathematics & Computation* • *Automatica* • *Computers & Industrial Engineering* • *Computers & Operations Research* • *Discrete Event Dynamic Systems* • *European Journal of Operational Research* • *IEEE Transactions on Automatic Control* • *IEEE Transactions on Automation Science and Engineering* • *IEEE Transactions on Robotics & Automation* • *IEEE Transactions on Automation Science & Engineering* • *IIE Transactions* • *International Journal of Flexible Manufacturing Systems* • *International Journal of Production Economics* • *International Journal of Production Research* • *International Journal of Quality & Reliability Management* • *International Journal of Systems Science* • *Journal of Manufacturing Systems* • *Operational Research: An International Journal* • *Operations Research* • *OR Spectrum* • *Management Science* • *Manufacturing and Service Operations Management* • *Production and Operations Management* • *Production Planning & Control* • *Stochastic Models*.
- Reviewer of books: Axsäter, S. 2006. *Inventory Control*, 2E. International Series in Operations Research and Management Science, Springer, New York, NY. • Li, J, S. M. Meerkov. 2008. *Production Systems Engineering* (Preliminary edition), Springer, New York, NY.

- Referee of manuscripts submitted to international conferences: *1995 INRIA/IEEE Symposium on Emerging Technologies and Factory Automation* • *31st IEEE Conference on Decision and Control* (1992) • *32nd IEEE Conference on Decision and Control* (1993) • *12th IFAC Symposium on Information Control Problems in Manufacturing* (2006) • *2008 IEEE International Conference on Robotics and Automation*.

Invited Talks

- Beta Research School for Operations Management and Logistics/Department of Technology Management, Technical University of Eindhoven, Netherlands, 2008.
- Department of Mathematics, Kapodistrian University of Athens, Greece, 2004.
- Department of Industrial Engineering, Koç University, Turkey, 2004.
- Department of Mechanical Engineering, Aristotle University of Thessaloniki, Greece, 2003.
- Laboratoire Génie Industriel, École Centrale Paris, France, 2000, 2002.

Other Activities

- Member of Audit Committees for research projects financed by Greece's General Secretariat for Research & Technology through the Operational Program "Competitiveness", 2004 – 2007.
- Reviewer of a research grant proposal to be funded by the Research Committee of the University of Ioannina, Greece, 2007.
- Member of EURO Working Group on Stochastic Modeling, 2004 – present.
- Member of Coordinating Committee, E-Business Forum, GSRT, 2000 – 2001.
- Member of INFORMS, Greek Society for Operations Research, Technical Chamber of Greece.

ADMINISTRATIVE ACTIVITIES

Department of Mechanical Engineering

- Chairman, 2007 – 2009.
- Vice Chairman, 2005 – 2007.
- Director of Graduate Studies Program, 2005 – 2007.
- Director of Division of Production Management Administration, 2000 – 2005.
- Director of Production Management Laboratory, 1998 – present.
- Academic Responsible for Practical Training of Students Program, 1998 – 2009.
- Coordinator of Academic Issues Committee, 2000 – 2003 (member, 1996 – 2000).

University of Thessaly

- Member of Committee for Rules & Regulations of Graduate Studies, 2008 – present.
- Member of University Senate, 2001 – 2003, 2007 – 2009.
- Vice President of University Research Committee, 2005 – 2008.
- Academic Responsible (University-level) for Practical Training of Students Program, 2001 – 2005.
- Member of Temporary General Assembly, Department of Computer, Telecommunications and Networks Engineering, 2000 – 2003.
- Member of Temporary General Assembly, Department of Applied Economics, 2000 – 2002.
- Acting Member of University Research Committee, 1999 – 2002.

Outside the University of Thessaly

- Member of Examination Board, Professional Practice Licensing for Mechanical Engineering Graduates, Technical Chamber of Greece, 2005.
- Member of Examination Board, Graduate Scholarship Programs, State Scholarships Foundation of Greece, 2003 – 2005.

- Acting Member of Scientific Advising Committee for Mechanical & Aeronautical Engineering Graduates of Foreign Universities, Hellenic National Academic Recognition & Information Center, 2000 – 2009.
- Acting Member of Temporary General Assembly, Department of Industrial Engineering, Democritus University of Thrace, Greece, 2000.

TEACHING AND SUPERVISION

Courses Taught

Undergraduate Courses

Department of Mechanical Engineering, University of Thessaly.

- Operations Management, 1997 – 1998.
- Production Planning and Control, 1996 – 1998, 2000 – 2001, 2003 – 2009.
- Optimization Theory, 1996.
- Stochastic Models in Operations Research, 1998 – 2009.

Department of Manufacturing Engineering, Boston University, HIIA.

- Statistics & Quality Engineering, 1993.

Graduate Courses

Department of Mechanical Engineering, University of Thessaly.

- Production Systems, 1999, 2001, 2003, 2005, 2007, 2009.
- Computer Integrated Systems for Production, 1999 – 2000.
- Stochastic Processes, 2000, 2002, 2004, 2006.
- Dynamic Programming, 2002.

Program of Graduate Studies in Business Mathematics, jointly organized by the National and Kapodistrian University of Athens (Department of Mathematics and Department of Economics) and the Athens University of Economics and Business (Department of Informatics).

- Mathematical Models in Production Systems, 2000 – 2001.

Department of Manufacturing Engineering, Boston University, HIIA.

- Probability with Statistical Applications, 1992 – 1993.

Thesis Supervision

Completed PhD Theses, Department of Mechanical Engineering, University of Thessaly.

- Koukoumialos, S. 2003. *Performance Evaluation and Properties of Kanban-Type Policies for the Coordination of Multistage Production/Inventory Systems.*
- Tsarouhas, P. 2005. *Quantitative Analysis of the Reliability, Quality, and Performance of Automated Production Systems.*
- Tsikis, I. 2007. *Quantitative Analysis of the Impact of Stockouts in Inventory Management.*
- Hatzikonstantinou, O. 2009. *Production Scheduling Optimization in a PET Resin Chemical Industry.*

On-going PhD Theses, Department of Mechanical Engineering, University of Thessaly.

- Andrianesis, P. *Analysis of Electrical Energy Market Mechanisms*, (expected completion date: 12/31/2009).

Completed M.Sc. Theses

22 M.Sc. Theses in the Department of Mechanical Engineering, University of Thessaly and one M.Sc. Thesis (DEA) in the Laboratoire de Méthodologie et Architecture des Systèmes Informatiques, Université Pierre et Marie Curie, France.

Completed Diploma Theses

41 Diploma Theses in the Department of Mechanical Engineering, University of Thessaly.

RESEARCH GRANTS

1. Title: Modeling, Analysis, and Coordination of Multi-Stage Manufacturing Systems, Funding: EU-Human Capital and Mobility, Position: Principal Researcher, Budget: 95,268 ecu, 1994-96.
2. Title: Development of Effective Material Flow Control Mechanisms in Multi-Stage Manufacturing Systems, Funding: EU-Training and Mobility of Researchers, Position: Principal Researcher, Budget: 36,432 ecu, 1996.
3. Title: New Methods for the Organization, Management, and Strategic Planning of SMEs in the Metal Industry, Funding: Greek Ministry of Labor & Social Security-ADAPT-Phase 2, Position: Sci. Responsible (P.I.) at UTH, Budget: 3,000,000 drs, 1998-99.
4. Title: The Effect of Lot Sizing on the Performance of Production Control Systems, Funding: UTH Scientific Committee, Position: Sci. Responsible (P.I.), Budget: 750,000 drs, 1999.
5. Title: Production Management and Product Quality in SMEs, Funding: EOMMEX-Regional Directorate of Thessaly, Position: Sci. Responsible (P.I.), Budget: 600,000 drs, 1999.
6. Title: Hellenic Enterprise Resource Management & Information Technology Advancement Network in Greek Enterprises, Funding: GSRT-OPRT II-Human Networks, Position: Sci. Responsible (P.I.) at UTH, Budget: 660,000 drs, 2000-01.
7. Title: Production-Inventory Control Policies with Advance Demand Information, Funding: UTH Scientific Committee, Position: Sci. Responsible (P.I.), Budget: 500,000 drs, 2001.
8. Title: Development of a System for the Inspection and Identification of the Static Sufficiency of the Primary Bridges at the Egnatia (National) Road, Funding: Egnatia Odos, S.A, Position: Researcher, Budget: 20,000,000 drs, 2001-02.
9. Title: Study of Stockout Costs in Inventory Control, Funding: Greek Ministry of Education-Heraklitus: Fellowships for Basic Research, Position: Sci. Responsible (P.I.) Budget: €32,820, 2002-06.
10. Title: Development of Web-based Collaborative Tools for Complex Industrial Products, Funding: GSRT-Concerted Program for Electronic Business, Position: Sci. Responsible (P.I.) at UTH, Budget: €60,000.00, 2004-06.
11. Title: Development of a Data Base for Resource Planning and Performance Evaluation of Operations at DEPA (Greece's Public Gas Corporation), S.A., Funding: DEPA, S.A., Position: Sci. Responsible (P.I.), Budget: €20,000.00, 2004-05.
12. Title: Optimization of Production Planning and Product Distribution of a PET Resin Chemical Plant, Funding: GSRT-PENED, V.P.I., S.A., Position: Sci. Responsible (P.I.), Budget: €42,045.45, 2005-08.
13. Title: Mapping of the Material Handling System at IMAS, S.A., Funding: IMAS, S.A., Position: Researcher, Budget: €4,900.00, 2006.
14. Title: Investigation of the Interaction between the Energy and Reserves Markets, Funding: Regulatory Authority for Energy, Position: Sci. Responsible (P.I.), Budget: €8,395, 2007-08.
15. Title: Improving the Material Handling System at IMAS, S.A., Funding: IMAS, S.A., Position: Researcher, Budget: €12,000.00, 2007-08.
16. Title: Improving the Inventory Management System at IMAS, S.A., Funding: IMAS, S.A., Position: Researcher, Budget: €12,000.00, 2007-08.

PUBLICATIONS

Dissertations

1. Liberopoulos, G. 1993. *Flow Control of Failure Prone Manufacturing Systems: Controller Design Theory and Applications*. Ph.D. Dissertation, Department of Manufacturing Engineering, Boston University, USA.

Edited Book Volumes and Special Issues of Scientific Journals

1. Dallery, Y., G. Liberopoulos, W.H.M. Zijm (Eds.). 2000. Special issue on “Decentralized Control of Manufacturing Systems.” *IIE Transactions* 32 (10).
2. Liberopoulos, G., B. Tan, S.B. Gershwin, C.T. Papadopoulos, J.M. Smith (Eds.). 2004. Special double volume on “Stochastic Models of Production-Inventory Systems.” *Annals of Operations Research* 125 (1-4) – 126 (1-4).
3. Liberopoulos, G., C.T. Papadopoulos, B. Tan, J.M. Smith, S.B. Gershwin (Eds.). 2005. Special double issue on “Stochastic Models for the Design, Coordination, and Control of Manufacturing Systems.” *OR Spectrum* 27 (2-3).
4. Liberopoulos, G., C.T. Papadopoulos, B. Tan, J.M. Smith, S.B. Gershwin (Eds.). 2005. *Stochastic Modeling of Manufacturing Systems: Advances in Design, Performance Evaluation and Control Issues* (expanded reprint of *OR Spectrum* 27 (2-3) 2005). Springer-Verlag, Berlin.
5. Buzacott, J.A., S.B. Gershwin, G. Liberopoulos, S.M. Meerkov, C.T. Papadopoulos, B. Tan, J.M. Smith (Eds.). 2008. Special issue on “Stochastic Models for the Evaluation, Design, and Operation of Manufacturing Systems.” *IIE Transactions* 40 (3) 2008.
6. Buzacott, J.A., S.B. Gershwin, G. Liberopoulos, S.M. Meerkov, B. Tan, J.M. Smith, T. van Woensel (Eds.). 2009. Special issue on “Advances in the Analysis of Manufacturing Systems.” *Annals of Operations Research* (forthcoming).
7. Liberopoulos, G., C.T. Papadopoulos, J.M. Smith, T. Tolio (Eds.). 2011. Special issue on “Stochastic Models of Manufacturing and Service System Operations.” *Annals of Operations Research* (forthcoming).

Book Chapters

1. Karaesmen, F., G. Liberopoulos, Y. Dallery. 2003. Production/inventory control with advance demand information. J.G. Shanthikumar, D.D. Yao, W.H.M. Zijm, eds. *Stochastic Modeling and Optimization of Manufacturing Systems and Supply Chains*, International Series in Operations Research and Management Science, Vol. 63. Kluwer Academic Publishers, Boston, MA. 243-270.
2. Liberopoulos, G., I. Tsikis. 2003. Unified modeling framework of multi-stage production-inventory control policies with lot-sizing and advance demand information. J.G. Shanthikumar, D.D. Yao, W.H.M. Zijm, eds. *Stochastic Modeling and Optimization of Manufacturing Systems and Supply Chains*. International Series in Operations Research and Management Science, Vol. 63. Kluwer Academic Publishers, Boston, MA. 271-297.
3. Koukoumialos, S., G. Liberopoulos. 2005. An analytical method for the performance evaluation of echelon kanban control systems. G. Liberopoulos, C.T. Papadopoulos, B. Tan, J.M. Smith, S.B. Gershwin, eds. *Stochastic Modeling of Manufacturing Systems: Advances in Design, Performance Evaluation and Control Issues* (expanded reprint of *OR Spectrum* 27 (2-3) 2005). Springer-Verlag, Berlin. 193-222.

Articles in Scientific Journals

1. Caramanis, M., G. Liberopoulos. 1992. Perturbation analysis for the design of flexible manufacturing system flow controllers. *Operations Research* 40 (6) 1107-1125.

2. Liberopoulos, G., M. Caramanis. 1994. Production control of manufacturing systems with production rate dependent failure rates. *IEEE Transactions on Automatic Control* 39 (4) 889-895.
3. Liberopoulos, G., M. Caramanis. 1994. Infinitesimal perturbation analysis for second derivative estimation and design of manufacturing flow controllers. *Journal of Optimization Theory and Applications* 81 (2) 297-327.
4. Liberopoulos, G., J.Q. Hu, 1995. On the ordering of optimal hedging points in a class of manufacturing flow control models. *IEEE Transactions on Automatic Control* 40 (2) 282-286.
5. Liberopoulos, G., M. Caramanis. 1995. Dynamics and design of a class of parameterized manufacturing flow controllers. *IEEE Transactions on Automatic Control* 40 (6) 1018-1028.
6. Liberopoulos, G., M. Caramanis. 1997. Numerical investigation of optimal policies for production flow control and set-up scheduling: Lessons from two-part-type, failure-prone FMSs. *International Journal of Production Research* 35 (8) 2109-2133.
7. Liberopoulos, G., Y. Dallery. 2000. A unified framework for pull control mechanisms in multi-stage manufacturing systems. *Annals of Operations Research* 93 (1-4) 325-355.
8. Dallery, Y., G. Liberopoulos. 2000. Extended kanban control system: Combining kanban and base stock. *IIE Transactions* 32 (4) 369-386.
9. Chaouiya, C., G. Liberopoulos, Y. Dallery. 2000. The extended kanban system for production coordination of assembly systems. *IIE Transactions* 32 (10) 999-1012.
10. Liberopoulos G., P. Tsarouhas. 2002. System analysis speeds up Chipita's food-processing line. *Interfaces* 32 (3) 62-76.
11. Liberopoulos, G., Y. Dallery. 2002. Base stock versus WIP cap in single-stage make-to-stock production-inventory systems. *IIE Transactions* 34 (7) 627-636.
12. Liberopoulos, G. 2002. Production capacity modeling of alternative, nonidentical, flexible machines. *International Journal of Flexible Manufacturing Systems* 14 (4) 345-359.
13. Liberopoulos, G., Y. Dallery. 2003. Comparative modelling of multi-stage production-inventory control policies with lot sizing. *International Journal of Production Research* 41 (6) 1273-1298.
14. Karaesmen, F., G. Liberopoulos, Y. Dallery. 2004. The value of advance demand information in production/inventory systems. *Annals of Operations Research* 126 (1-4) 135-157.
15. Tsarouhas, P., G. Liberopoulos. 2004. Determining quality inspection frequency in an automated production line based on field failure data analysis. *Operational Research: An International Journal* 4 (3) 305-315.
16. Liberopoulos, G., P. Tsarouhas. 2005. Reliability analysis of an automated pizza processing line, *Journal of Food Engineering* 69 (1) 79-96.
17. Liberopoulos, G., S. Koukoumialos. 2005. Tradeoffs between base stock levels, numbers of kanbans and production lead times in production-inventory systems with advance demand information. *International Journal of Production Economics* 96 (2) 213-232.
18. Koukoumialos, S., G. Liberopoulos. 2005. An analytical method for the performance evaluation of echelon kanban control systems. *OR Spectrum* 27 (2-3) 339-368.
19. Liberopoulos, G., G. Kozanidis, P. Tsarouhas. 2007. Performance evaluation of an automatic transfer line with WIP scrapping during long failures. *Manufacturing & Service Operations Management* 9 (1) 62-83.
20. Liberopoulos G. 2008. On the tradeoff between optimal order-base-stock levels and demand lead-times. *European Journal of Operational Research* 190 (1) 136-155.

21. Liberopoulos, G., S. Koukoumialos. 2008. On the effect of variability and uncertainty in advance demand information on the performance of a make-to-stock supplier. *MIBES Transactions International Journal* 2 (1) 95-114.
22. Liberopoulos, G., I. Tsikis, S. Delikouras. 2010. Backorder penalty cost coefficient "b": What could it be? *International Journal of Production Economics* 123 (1) 166-178.
23. Liberopoulos, G., G. Kozanidis, O. Hatzikonstantinou. 2009. Production scheduling of a multi-grade PET resin plant. *Computers and Chemical Engineering* 34 (3) 387-400.
24. Kozanidis, G., G. Liberopoulos, C. Pitsilkas. 2009. Flight and maintenance planning of military aircraft for maximum fleet availability. *Military Operations Research* (in press).
25. Andrianesis, P., G. Liberopoulos, K. Sakellaris, A. Vlachos. 2009. Impacts of reserve and fixed costs on Greece's day-ahead scheduling problem. *Euro-Asian Journal of Sustainable Energy Development Policy* (accepted).

Working Papers

1. Liberopoulos, G., I. Tsikis. 2007. Do stockouts undermine current sales and future customer demand? Statistical evidence from a wholesaler's historical data. Working Paper, Department of Mechanical Engineering, University of Thessaly.
2. Liberopoulos, G., I. Tsikis. 2007. Competing for customer goodwill on product availability, Working Paper, Department of Mechanical Engineering, University of Thessaly.
3. Andrianesis, P., G. Liberopoulos, G. Kozanidis. 2007. Modeling the Greek electricity market. Working Paper, Department of Mechanical Engineering, University of Thessaly.
4. Liberopoulos, G., D. Pandelis, O. Hatzikonstantinou. 2009. The stochastic economic lot sizing problem for multi-grade production. Working Paper, Department of Mechanical Engineering, University of Thessaly.
5. Kozanidis, G., A. Gavranis, G. Liberopoulos, 2009. Heuristics for flight and maintenance planning of mission aircraft. Working Paper, Department of Mechanical Engineering, University of Thessaly.

Articles in International Conference Proceedings

1. Liberopoulos, G., M. Caramanis. 1991. Flow control of stochastic manufacturing systems: A simulation-based design approach using perturbation analysis for second derivative estimation. *1991 American Control Conference*, Boston, Massachusetts, 21-23 June 1991, 455-456.
2. Dallery, Y., G. Liberopoulos. 1995. A new kanban-type pull control mechanism for multi-stage manufacturing systems. *3rd European Control Conference*, Rome, Italy, 5-8 September 1995, Vol. 4, Part 2, 3543-3548.
3. Liberopoulos, G., Y. Dallery. 1995. On the optimization of a single-stage generalized kanban control system in manufacturing. *INRIA/IEEE Symposium on Emerging Technologies and Factory Automation*, Paris, France, 10-13 October 1995, Vol. 3, 437-444.
4. Liberopoulos, G. 1997. On pull production control systems in multi-stage manufacturing systems. *International Workshop on Performance Evaluation and Optimization of Production Lines*, Samos Island, Greece, 19-22 May 1997, 61-72.
5. Chaouiya, C., G. Liberopoulos, Y. Dallery. 1997. Extended kanban control systems for assembly manufacturing systems. *International Conference on Industrial Engineering and Production Management*, Lyon, France, 20-24 October 1997, Book I, 325-335.
6. Liberopoulos, G., S. Koukoumialos. 2001. Numerical investigation of tradeoffs in production-inventory control policies with advance demand information. *3rd Aegean International*

- Conference on Design and Analysis of Manufacturing Systems*, Tinos Island, Greece, 19-22 May 2001, 151-160.
7. Selvaraj, N., T.A. Janardhan Reddy, C.S.P. Rao, G. Liberopoulos. 2002. A comparative analysis of hybrid pull – production control mechanisms. *2nd International Conference on Responsive Manufacturing*, Gaziantep, Turkey, 26-28 June 2002, 67-71.
 8. Selvaraj, N., C.S.P. Rao, G. Liberopoulos. 2002. Simulation analysis of pull production system with machine breakdowns. *4th Asia-Pacific Conference on Industrial Engineering and Management Systems*, Taipei, Taiwan, 18-20 December 2002. 4 pages.
 9. Liberopoulos, G., A. Chronis, S. Koukoumialos. 2003. Base stock policies with some unreliable advance demand information. *4th Aegean International Conference on Analysis of Manufacturing Systems*, Samos Island, Greece, 1-4 July 2003, 77-86.
 10. Liberopoulos, G., G. Kozanidis, P. Tsarouhas. 2005. Analysis of a bufferless, paced automatic transfer line with massive scrapping of material during long failures. *5th International Conference on Analysis of Manufacturing Systems – Production Management*, Zakynthos Island, Greece, 20-25 May 2005, 119-126.
 11. Liberopoulos, G., I. Tsikis. 2007. Competing for customer goodwill on product availability. *6th Conference on Analysis of Manufacturing Systems*, Lunteren, The Netherlands, 11-16 May 2007, 45-50.
 12. Kozanidis, G., A. Gavranis, G. Liberopoulos. 2008. Heuristics for maximizing fleet availability subject to flight and maintenance requirements. *10th International Conference on Application of Advance Technologies in Transportation*, Athens, 27-31 May, 2008, 15 pages.
 13. Liberopoulos, G., S. Koukoumialos. 2008. On the effect of variability and uncertainty in advance demand information on the performance of a make-to-stock supplier. *Management of International Business and Economic Systems Conference 2008 (MIBES '08)*, Larissa, Greece, 4-5 July 2008, 282-301.
 14. Andrianesis, P., G. Liberopoulos, K. Sakellaris, A. Vlachos. 2008. Impacts of reserve and fixed costs on Greece's day-ahead scheduling problem. *PROMITHEAS-2 International Black Sea Energy Policy Conference, "Energy Investments and Trade Opportunities,"* Athens, Greece, 8-9 October 2008, 8 pages.
 15. Andrianesis, P., G. Liberopoulos, G. Kozanidis. 2008. Energy and reserve interaction in Greece's electricity market. *MedPower 2008 - 6th Mediterranean Conference on Exhibition and Power Generation, Transmission and Distribution*, Thessaloniki, Greece, 2-5 November 2008, 6 pages.
 16. Andrianesis, P., G. Liberopoulos, A. Papalexopoulos. 2009. Application of zonal pricing in Greece's electricity market. *6th International Conference on the European Energy Market (EEM '09)*, Leuven Belgium, 27-29 May 2009, 1-8.
 17. Liberopoulos, G., D. Pandelis, O. Hatzikonstantinou. 2009. The stochastic economic lot sizing problem for continuous multi-grade production. *7th Conference on Stochastic Modeling of Manufacturing and Service Operations*, Ostuni, Italy, 7-12 June 2009, 250-258.
 18. Andrianesis, P., G. Liberopoulos, G. Kozanidis. 2009. Energy reserve markets with non-convexities: An empirical analysis. *IEEE PowerTech 2009, "Innovative Ideas toward the Electrical Grids of the Future,"* Bucharest, Romania, 28 June-2 July 2009, 1-8.
 19. Hatzikonstantinou, O., G. Liberopoulos, D. Pandelis. 2009. The stochastic economic lot sizing problem for continuous multi-grade production. *Management of International Business and Economic Systems Conference 2009 (MIBES '09)*, Florina, Greece, 18-20 September 2009.

20. Andrianesis, P., G. Liberopoulos, P. Biskas. 2009. Tertiary reserve in Greece's electricity market: The need for "peakers". *Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region (DISTRES)*, Nicosia, Cyprus 11-12 December 2009, Paper ref No: 134, 7 pages.

Presentations in International Conference Proceedings

1. Liberopoulos, G., M. Caramanis. 1994. Perturbation analysis for a class of parameterized manufacturing flow controllers. *TIMS/ORSA Joint National Meeting*, Boston, Massachusetts, 24-17 April 1994, p. 50.
2. Dallery Y., G. Liberopoulos. 1996. The extended kanban system for control of multi-stage manufacturing systems. *Symposium on Mathematical Models of Inventories*, Aarhus, Denmark, 29-30 May 1996.
3. Liberopoulos, G., Y. Dallery. 1997. On the design of extended kanban control systems in manufacturing. *9th INFORMS Applied Probability Conference*, Cambridge, Massachusetts, 30 June – 1 July 1997, p. 102.
4. Liberopoulos, G., Y. Dallery. 1998. Extensions of pull production control mechanisms in multi-stage manufacturing systems. *1998 INFORMS International Conference: Management Science and Operations Research in an Emerging Region*, Tel Aviv, Israel, 28 June-1 July 1998, pp. 3-4.
5. Liberopoulos, G., S. Koukoumialos. 1999. Single-stage kanban-type mechanisms with fixed batch size. *2nd Aegean International Conference on Analysis and Modeling of Manufacturing Systems*, Tinos Island, Greece, 16-20 May 1999, p. 299.
6. Liberopoulos, G. 2000. On the optimization of single-stage generalized kanban control policies with advance information on the demand. *17th European Conference on Operations Research*, Budapest, Hungary, 16-19 July 2000, p. 90.
7. Liberopoulos, G., I. Tsikis. 2003. Inferred stockout cost coefficients. *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, 6-10 July 2003, p. 91.
8. Liberopoulos, G., S. Koukoumialos. 2004. An analytical method for the performance evaluation of echelon kanban control systems. *27th Multi-Echelon Inventory Conference*, Eindhoven, The Netherlands, 30 June 2004, p. 7.
9. Tsikis, I., G. Liberopoulos. 2004. Stockout cost coefficient b : What should it be? *Manufacturing & Service Operations Management Conference*, Eindhoven, The Netherlands, 1-2 July 2004, Abstr. Nr. A029.