

CURRICULUM VITAE

Efstratios Ioannidis

Chania, Greece, June 2017

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EDUCATION

- Diploma in Production Engineering and Management, Technical University of Crete, Chania, Greece, 1995.
 - M.Sc. in Production Engineering and Management, Technical University of Crete, Chania, Greece, 1997.
 - Ph.D. in Production Engineering and Management, Technical University of Crete, Chania, Greece, 2004.
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RESEARCH AND PROFESSIONAL EXPERIENCE

Jun. 2010 – present: Assistant Professor, Department of Production Engineering and Management, Technical University of Crete.
Mar. 2005 – Jun. 2010: Lecturer, Department of Mathematics, University of the Aegean.
Mar. 2005 – Aug. 2005: Adjunct Lecturer, Department of Production and Management Engineering, Democritus University of Thrace.
Mar. 2004 – Feb. 2005: Adjunct Lecturer, Department of Production Engineering and Management, Technical University of Crete.

TAUGHT COURSES

Department of Production Engineering and Management, Technical University of Crete: Production systems, Intelligent industrial control and mechatronics, Robotics, Production networks, Statistics for engineers, Advanced queueing systems (graduate), Inventory control (graduate).

Department of Production and Management Engineering, Democritus University of Thrace: Stochastic processes.

Department of Mathematics, University of the Aegean: Physics I, Complexity theory and algorithms, Statistics, Linear programming, Dynamic Programming, Mathematical models with applications in industry (graduate), Stochastic modeling (graduate), Probability and Statistics (graduate).

RESEARCH INTERESTS

- 1) Production systems analysis and control.
- 2) Applications of soft computing methodologies in production systems control.

PUBLICATIONS

Books

1. Joze Balic, Kimon P. Valavanis, Nikos Tsourveloudis and Stratos Ioannidis, *Intelligent Manufacturing Systems: Programming and Control*, Maribor, Slovenia, Chania, Greece, University of Maribor, Technical University of Crete, 2003.

Journal papers and book chapters

- A1.** E. Dretoulakis, S. Ioannidis, N. C. Tsourveloudis, "Distributed intelligent control of unreliable manufacturing systems", *Computational Intelligence and Applications*, N. Mastorakis (Editor), World Scientific & Engineering Society Press, 267-271, 1999.
- A2.** N.C. Tsourveloudis, E. Dretoulakis, S. Ioannidis, "Fuzzy work-in-process inventory control of unreliable manufacturing systems", *Information Sciences*, 127, 69-83, 2000.
- A3.** S. Ioannidis, N. Tsourveloudis, K. Valavanis, "Fuzzy supervisory control of manufacturing systems", *IEEE Transactions on Robotics and Automation*, 20, 379-389, 2004.
- A4.** S. Ioannidis, V. S. Kouikoglou, and Y. A. Phillis, "Coordinating quality, production and sales in manufacturing systems", *International Journal of Production Research*, 42, 3947-3956, 2004.
- A5.** S. Ioannidis, and N. Tsourveloudis, "Fuzzy techniques in scheduling of manufacturing systems", *Fuzzy Applications in Industrial Engineering*, C. Kahraman (Editor), Springer - Verlag, 427-452, 2006.
- A6.** N. Tsourveloudis, S. Ioannidis, and K. Valavanis, " Fuzzy surplus based distributed control of manufacturing systems", *Advances in Production Engineering and Management*, 1, 5-12, 2006.
- A7.** N. Tsourveloudis, L. Doitsidis, and S. Ioannidis, "Work-in-process scheduling by evolutionary tuned fuzzy controllers", *International Journal of Advanced Manufacturing Technology*, 34, 748-761, 2007.
- A8.** S. Ioannidis, V. S. Kouikoglou, and Y. A. Phillis, "Analysis of admission and inventory control policies for production networks", *IEEE Transactions on Automation Science and Engineering*, 5, 275-288, 2008.
- A9.** S. Ioannidis, and V.S. Kouikoglou, "Revenue management in single-stage CONWIP production systems", *International Journal of Production Research*, 46, 6513-6532,2008.
- A10.** S. Ioannidis, "An inventory and order admission control policy for production systems with two customer classes", *International Journal of Production Economics*, 131, 663-673, 2011.
- A11.** S. Ioannidis, O. Jouini, A.A. Economopoulos, and V.S. Kouikoglou, "Control policies for single-stage production systems with perishable inventory and customer impatience", *Annals of Operations Research*, 209, 115-138, 2013.
- A12.** S. Ioannidis, "Joint Production and Quality Control in Production Systems with Two Customer Classes and Lost Sales", *IIE Transactions*, 45, 605-616, 2013.
- A13.** A.S. Xanthopoulos, D.E. Koulouriotis, A. Gasteratos, S. Ioannidis, " Efficient priority rules for dynamic sequencing with sequence-dependent setups", *International Journal of Industrial Engineering Computations*, 7, 367-384, 2016.

- A14.** D. Konstantas, S. Ioannidis, E. Grigoroudis, and V.S. Kouikoglou, "The Effects of Quality on Market Share and Profitability in Single Stage Make-to-Stock Production Systems ", *Operational Research in Business and Economics, Springer Proceedings in Business and Economics*, E. Grigoroudis, M. Doumpou (Eds), Springer International Publishing, Switzerland, 235-245, 2017.
- A15.** D. Konstantas, E. Grigoroudis, V.S. Kouikoglou, and S. Ioannidis, "Linking product quality and customer behavior for performance analysis and optimization of make-to-order manufacturing systems", working paper, 2017.

Conference papers

- B1.** S. Ioannidis, N. Tsourveloudis, K. Valavanis, "Supervisory Control of Multiple-Part-Type Production Networks", *Proceedings of the 10th IEEE Mediterranean Conference on Control and Automation*, Lisbon Portugal, July 2002.
- B2.** S. Ioannidis, and V.S. Kouikoglou, "Coordinated admission and inventory controls in a make-to-stock production system", *Proceedings of the 11th IEEE Mediterranean Conference on Control and Automation*, Rhodes Greece, June 2003.
- B3.** S. Ioannidis, V.S. Kouikoglou and Y. A. Phillis, "Coordinating quality, production, and sales in manufacturing systems", *Proceedings of the 3rd International Conference in Management of Technological Change*, Chania Greece, August 2003.
- B4.** S. Ioannidis, V.S. Kouikoglou and Y. A. Phillis, "Analysis of admission and inventory control policies for make-to-stock production networks", *Proceedings of the World Automation Congress 2004*, Seville Spain, June 2004.
- B5.** V. S. Kouikoglou, S. Ioannidis, G. Saharidis, "Review of some queueing models for managing inventories, backorders and quality jointly in stochastic manufacturing systems", *Proceedings of the 5th International Conference on Analysis of Manufacturing Systems – Production Management*, Zakynthos Island, Greece, May 2005.
- B6.** N. C. Tsourveloudis, L. Doitsidis, S. Ioannidis, "Optimized fuzzy scheduling of manufacturing systems", *Proceedings of the 2nd International Conference on Informatics, in Control, Automation and Robotics (ICINCO 2005)*, Barcelona, Spain, September 2005.
- B7.** N. C. Tsourveloudis, L. Doitsidis, S. Ioannidis, "Work In Process Scheduling by Evolutionary Tuned distributed Fuzzy Controllers", *Proceedings of the International Conference on Robotics and Automation 2006 (ICRA 2006)*, Orlando, Florida, USA, May 2006.
- B8.** A. Xanthopoulos, D. Koulouriotis and S. Ioannidis, "Comparative evaluation of pull type production control policies", *18^o National Conference of EEEE*, Kozani, Greece, 2006.
- B9** S. Ioannidis, and V. S. Kouikoglou, "Optimal production and order admission control in single-stage stochastic production systems with setup times ", *Proceedings of the 6th International Conference on Analysis of Manufacturing Systems*, Lunteren, Netherlands, May 2007.
- B10.** S. Ioannidis, "Coordinated inventory and order admission control in a production system with two customer classes", *Proceedings of the 7th International Conference on Stochastic Models of Manufacturing and Service Operations*, Ostuni, Italy, June 2009.
- B11.** S. Ioannidis, O. Jouini, A.A. Economopoulos, and V.S. Kouikoglou, "An (S – 1, S) Inventory system with general product lifetimes and customer impatience", *3rd Meeting of the EURO Working Group on Stochastic Mod-*

elling (StochMod10), Nafplio, Greece, June 2010.

- B12.** S. Ioannidis, V.S. Kouikoglou and Y. A. Phillis, "Recent results in coordinated inventory, admission, and quality control of single part type manufacturing systems", Proceedings of the World Automation Congress 2010, Kobe Japan, September 2010.
- B13. S. Ioannidis, and V. S. Kouikoglou, "Coordinating Production and Quality in Manufacturing Systems with Two Customer Classes ", Proceedings of the 8th International Conference on Stochastic Models of Manufacturing and Service Operations, Kusadasi, Turkey, May 2011.
- B14.** S. Ioannidis, "Joint Production and Order Admission Control in Two Stage Production Lines with Intermediate Product Demand", 4th Meeting of the EURO Working Group on Stochastic Modelling (StochMod12), Paris, France, May 2012.
- B15. S. Ioannidis, O. Jouini, and Y. Dallery, "Production and Sales Control in Systems with Flexible Capacity and Perishable Items", Proceedings of the 9th International Conference on Stochastic Models of Manufacturing and Service Operations, Kloster Seeon, Germany, May 2013.
- B16. S. Ioannidis, and I. Sarantis, "Inventories and Order Admission Control in Manufacturing Systems with Two Customer Classes and Setup Times", Proceedings of the 21st Mediterranean Conference on Control and Automation (MED 2013), Chania, Crete, Greece, June 2013.
- B17. D. Konstantas, E. Grigoroudis, V.S. Kouikoglou, and S. Ioannidis, "A Simple Model of the Effects of Quality on Market Share and Profitability in Single Stage Manufacturing Systems ", Proceedings of the 10th International Conference on Stochastic Models of Manufacturing and Service Operations, Volos, Greece, June 2015.