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Short CV

Dr Dimitrios Bechtsis is a Lecturer in the Automation Engineering Department, Alexander Technological Educational Institute (ATEI) of Thessaloniki, Greece, in the area of computer science for engineers. He is a Senior Researcher (since 2014) at the Laboratory of Statistics and Qualitative Analysis Methods of the Industrial Management Division of the Mechanical Engineering Department of the Aristotle University of Thessaloniki (A.U.Th.), Greece. He defended his Ph.D. thesis “Digital manufacturing methodologies and information technology (IT) tools for the management and control of autonomous vehicles in Supply Chains” in February 2018. He also received his M.Sc. degree in Medical Informatics from the A.U.Th., Departments of Electrical and Computer Engineering, Informatics and the School of Medicine in 2003 (he received a scholarship for having the highest grade at the first two semesters) and the Diploma in Electrical and Computer Engineering in 2000 from the Department of Electrical and Computer Engineering, A.U.Th.. Mr Bechtsis’s scientific interests indicatively cover the fields of Information Technology, Autonomous Vehicles, Sustainable Supply Chains and Agrifood Systems. His research interests include information systems, industrial systems, supply chains design and management and simulation techniques, while he is focusing on the incorporation of intelligent autonomous vehicles in the supply chain ecosystem. He has published his research work in many national and international conference proceedings, in acknowledged peer-reviewed scientific journals (e.g. Journal of Cleaner Production) and as chapters in scientific books, while he has participated in more than 20 national and European research projects (e.g. GREEN-AgriChains). He also acts as a reviewer in scientific journals and is a member of several associations, such as the Technical Chamber of Greece, the Association of Mechanical-Electrical Engineers of Northern Greece, the Greek Association of Supply Chain Management and the AUTH Alumni Association.

Selected Academic Publications

Peer-reviewed Journals

- Poulimenos, D, **Bechtsis, D.**, Vlachos, D., Iakovou, E., 2018. A software tool for optimizing intra-logistic activities, Computer Aided Chemical Engineering, Elsevier, **Under Review**.
- Tsolakis, N., **Bechtsis, D.** and Srαι, J.S., 2018. Towards digital supply chain operations: From simulation modelling to real-world Intelligent Autonomous Vehicles. Business Process Management Journal, **Under Review**.
- **Bechtsis, D.**, Tsolakis, N., Vlachos, D., Iakovou, E., 2017. Sustainable supply chain management in the digitalisation era: The impact of Automated Guided Vehicles. Journal of Cleaner Production, 142, 4, pp 3970-3984.
- **Bechtsis, D.**, Tsolakis, N., Vlachos, D., Srαι, J.S., Submitted 2016, and First Revision in 2017: Intelligent Autonomous Vehicles in digital supply chains: A framework for integrating innovations towards sustainable value networks. Special Issue: Innovation for sustainable development, Journal of Cleaner Production. **Under review**.
- Vouzas, M., **Bechtsis, D.**, Vlachos, D., 2016. Optimization of Industrial Automated Guided Vehicle Systems: A simulation approach. Astrolavos, Journal of New Technologies, Hellenic Mathematical Society, 25, pp19-37.

- Keramydas, C., **Bechtsis, D.**, Aidonis, D., 2016. Agent-Based Simulation for Modeling Supply Chains: A Comparative Case Study. International Journal of New Technology and Research (IJNTR), ISSN: 2454-4116, Volume-2, Issue-10, pp 36-39.

Scientific Books (Chapters)

- **Bechtsis, D.**, Tsolakis, N., Vouzas, M., Vlachos, D., 2017. Industry 4.0: Sustainable material handling processes in industrial environments., In Computer Aided Chemical Engineering, Elsevier, Volume 40, 2017, Pages 2281-2286.

Conference Proceedings

- Moisiadis, V., **Bechtsis, D.**, Menexes, G., Vlachos, D., Iakovou, E. and Bochtis, D., 2017. Intelligent Autonomous Vehicles in industrial environments, 6th ICMEN International Conferences, October 5-6, 2017, Thessaloniki, Greece, ICMEN 2017, pp 207-2012.
- Katikaridis, D., **Bechtsis, D.**, Liakos, K., Vlachos, D. and Bochtis, D., 2017. A Google-Maps® based software tool for in-field logistics, 10th National Conference of Hellenic Agricultural Engineers, September 2017.
- Moisiadis, V., **Bechtsis, D.**, Liakos, K., Vlachos, D. and Bochtis, D., 2017. A real time navigation tool for planning and control of unmanned guided vehicles (UGV), 10th National Conference of Hellenic Agricultural Engineers, September 2017.
- **Bechtsis, D.**, Tsolakis, N., Vouzas, M., Vlachos, D., 2017. Industry 4.0: Sustainable material handling processes in industrial environments, 27th European Symposium ESCAPE-27, Barcelona, Spain.
- Tsolakis, N., **Bechtsis, D.** and Srari, J.S., 2017. Design of operations in digital supply chains: From simulation modelling to real-world intelligent autonomous vehicles. In: Proceedings of the 21st Annual CIM Symposium - Globalisation 2.0. Cambridge, United Kingdom, 28-29 September.
- **Bechtsis, D.**, Moisiadis, V., Tsolakis, N., Vlachos, D., and Bochtis, D., 2017. Scheduling and Control of Unmanned Ground Vehicles for Precision Farming: A Real-time Navigation Tool, 8th International Conference on Information and Communication Technologies in Agriculture, Food & Environment (HAICTA 2017), September 21-24, 2017, Chania, Crete, Greece.
- Katikaridis, D., **Bechtsis, D.**, Menexes, I., Liakos, K., Vlachos, D. and Bochtis, D., 2017. A software tool for efficient intra-logistics in agriculture, 8th International Conference on Information and Communication Technologies in Agriculture, Food & Environment (HAICTA 2017), September 21-24, 2017, Chania, Crete, Greece.
- **Bechtsis, D.**, Drakaki, M., Vlachos, D., 2015. Using Agent-Based Modeling for the Design of Agrifood Supply Chains with Emergency Replenishments. Thessaloniki 1st International Conference on Agrifood SCM & Green Logistics FP7 REGPOT Project: GREEN-AgriChains.