

## Dr Naoum Tsolakis

*Dipl. Industrial Engineer – M.Sc. Mechanical Engineer*

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### Short CV

Dr Naoum Tsolakis is a Research Associate in Industrial Systems and Network Analysis at the Centre for International Manufacturing, Institute for Manufacturing, Department of Engineering, University of Cambridge, United Kingdom (UK). He has received his Ph.D. title from the Mechanical Engineering Department of Aristotle University of Thessaloniki in 2015, while his doctoral research was funded by the European Union. He has also obtained Master's Degrees in "State-of-the-Art Design and Analysis Methods in Industry" (Department of Mechanical Engineering of the University of Thessaly, Volos, Greece), in "Technology Entrepreneurship" (Department of Management Science and Innovation of the University College London, London, UK), and in "Engineering Project Management" (School of Science and Technology of the Hellenic Open University, Patra, Greece). Dr Tsolakis's main research and practice interests are in the areas of simulation modelling and analysis of sustainable supply chains design and management in the circular economy era, along with intelligent autonomous systems, for the industrial manufacturing, agrifood and pharmaceutical sectors. He has published his research work in acknowledged peer-reviewed scientific journals and in national and international conference proceedings. His research output is both academic- and business-driven owing to his participation in a plethora of research projects and consortia. In addition, Dr Tsolakis has served as an Adjunct Lecturer in several graduate and undergraduate level courses.

### Selected Academic Publications

#### Peer-reviewed Journals

- **Tsolakis, N.**, Bechtsis, D., Srail, J.S. (2018), Towards digital supply chain operations: From simulation modelling to real-world Intelligent Autonomous Vehicles. *Business Process Management Journal*, Under Review.
- Aivazidou, E., **Tsolakis, N.**, Vlachos, D., Iakovou, E. (2018), A water footprint management framework for supply chains under green market behavior. *Journal of Cleaner Production*, Under Review.
- **Tsolakis, N.**, Srail, J.S., Aivazidou, E. (2018), Blue Water Footprint Management in a UK Poultry Supply Chain under Environmental Regulatory Constraints, *Sustainability*, 10(3), 625.
- Bechtsis, D., **Tsolakis, N.**, Vouzas, M., Vlachos, D. (2017), Industry 4.0: Sustainable material handling processes in industrial environments. *Computer Aided Chemical Engineering*, 40, 2281-2286.
- **Tsolakis, N.**, Srail, J.S. (2017), Inventory planning and control in 'green' pharmacies supply chains – A System Dynamics modelling perspective. *Computer Aided Chemical Engineering*, 40, 1285-1290.
- **Tsolakis, N.**, Srail, J.S. (2017), A System Dynamics approach to food security through smallholder farming in the UK. *Chemical Engineering Transactions*, 57, 2023-2028.
- Aivazidou, E., **Tsolakis, N.** (2017), Assessing the water footprint of pets: The case of small breed dogs. *Chemical Engineering Transactions*, 57, 517-522.
- Srail, J.S., **Tsolakis, N.**, Kumar, M., Bam, W. (2017), Circular supply chains and renewable chemical feedstocks: A network reconfiguration analysis framework. *Production Planning & Control*, Accepted for Publication.

- Tziantopoulos, K., **Tsolakis, N.**, Vlachos, D., Tsironis, L. (2017), Supply chain reconfiguration opportunities arising from Additive Manufacturing technologies in the digital era. *Production Planning & Control*, Accepted for Publication.
- 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(Part 4), 3970-3984.
- Aivazidou, E., **Tsolakis, N.**, Iakovou, E., Vlachos, D. (2016), The emerging role of water footprint in supply chain management: A critical literature synthesis and a hierarchical decision-making framework. *Journal of Cleaner Production*, 137, 1018-1037.
- Aivazidou, E., **Tsolakis, N.**, Vlachos, D., Iakovou, E. (2015), Water footprint management policies for agrifood supply chains: A critical taxonomy and a system dynamics modelling approach. *Chemical Engineering Transactions*, 43, 115-120.
- **Tsolakis, N.**, Anthopoulos, L. (2015), Eco-cities: An integrated system dynamics framework and a concise research taxonomy. *Sustainable Cities and Society*, 17, 1-14.
- **Tsolakis, N.** (2015), Entrepreneurial prospects in loyalty marketing: Real-world grocery retailers' market survey & conceptual case study. *Procedia – Social and Behavioral Sciences*, 175, 3-11.
- Toka, A., Iakovou, E., Vlachos, D., **Tsolakis, N.**, Grigoriadou, A.-L. (2014), Managing the diffusion of biomass in the residential energy sector: An illustrative real-world case study. *Applied Energy*, 129, 56-69.
- **Tsolakis, N.**, Keramydas, C., Toka, E., Aidonis, D., Iakovou, E. (2014), Agrifood supply chain management: A comprehensive hierarchical decision-making framework and a critical taxonomy. *Biosystems Engineering*, 120, 47-64.

#### Scientific Books (Chapters)

- Srari, J.S., Christodoulou, P., Settanni, E., Harrington, T., Josef, G., Kumar, M., **Tsolakis, N.**, Hennelly, P., Trokanas, N. (2017), *Next Generation Supply Chains: Making Right Decisions About Digitalisation*. Cambridge: Centre for International Manufacturing, Institute for Manufacturing, University of Cambridge.
- Aivazidou, E., **Tsolakis, N.**, Vlachos, D., Iakovou, E. (2017), Water Footprint Mitigation Strategies for Agrifood Products: The Application of System Dynamics in Green Marketing. In: A. Kavoura, D.P. Sakas, P. Tomaras (Eds.). *Springer Proceedings in Business and Economics: Strategic Innovative Marketing*. Springer International Publishing, Gham (2016), 275-281.
- Tziogas, Ch., Georgiadis, P., **Tsolakis, N.**, Yakinthos, Ch. (2017), Electricity Pricing Mechanism in a Sustainable Environment: A Review and a System Dynamics Modeling Approach. In: A. Kavoura, D.P. Sakas, P. Tomaras (Eds.). *Springer Proceedings in Business and Economics: Strategic Innovative Marketing*. Springer International Publishing, Gham (2016), 291-297.

#### Conference Proceedings

- **Tsolakis, N.**, Harrington, T., Kumar, M., Srari, J.S. (2017), Designing commercially viable supply chains defined by renewable chemical feedstocks: A case study of terpenes. In: *Proceedings of the 24<sup>th</sup> EurOMA Conference* (EurOMA 2017). European Operations Management Association, Edinburgh, United Kingdom, July 1-5.
- **Tsolakis, N.**, Srari, J.S. (2016), Modelling 'green' paracetamol supply chain operations defined by renewable chemical feedstocks in England: A System Dynamics analysis. In: *Proceedings of the 20<sup>th</sup> Cambridge International Manufacturing Symposium: Architecting the digital supply chain - the implications of digitalisation for global manufacturing*. Institute for Manufacturing, University of Cambridge, Cambridge, United Kingdom, September 29-30.
- **Tsolakis, N.**, Kumar, M., Srari, J.S. (2016), Exploring opportunities for circular supply chains arising from renewable chemical feedstocks. In: Keynote papers of the *OR58: The OR Society Annual Conference* (OR58). Portsmouth University, Portsmouth, United Kingdom, September 6-8.
- **Tsolakis, N.**, Anastasiadis, F., Skopos, S., Iakovou, E. (2015), Integrating sustainability performance measurement into supply networks: Application in the Greek organic food sector. In: *Proceedings of the 1<sup>st</sup> International Conference on Agrifood Supply Chain Management & Green Logistics*. Halkidiki, Greece, May 27-30.