

# Ali Niknejad

## Publications and Disseminations

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### Refereed Journal Papers

Palmer, C., Urwin, E.N., Niknejad, A., Petrovic, D., Popplewell, K. and Young, R.I.M. (2016) 'An ontology supported risk assessment approach for the intelligent configuration of supply networks'. *Journal of Intelligent Manufacturing* [Article in Press]

Niknejad, A. and Petrovic, D. (2016) 'A Fuzzy Dynamic Inoperability Input-Output Model for Strategic Risk Management in Global Production Networks'. *International Journal of Production Economics* 179 (1), 44-58

Niknejad, A. and Petrovic, D. (2014) 'Optimisation of Integrated Reverse Logistics Networks with Different Product Recovery Routes'. *European Journal of Operational Research* 238 (1), 143-154

Afsharian, M., Niknejad, A., and Wäscher, G. (2014) 'A Heuristic, Dynamic Programming-Based Approach for a Two-Dimensional Cutting Problem with Defects'. *OR Spectrum* 36 (4), 971-999

### Papers in Review

Schlosser, S., Bärenfänger, R., Niknejad, A., Petrovic, D., Jaekel, F.W. and Otto, B. 'Business model innovation in global production networks'. *Journal of Business Strategy*

Niknejad, A. and Petrovic, D. 'Analysis of impact of uncertainty in global production networks' parameters'. *Computers & Industrial Engineering*

Petrovic, D. and Niknejad, A. 'Fuzzy controller for determining quality thresholds for recovery in reverse logistics networks'. *Omega*

### Project Deliverables

Schlosser, S., Petrovic, D., Niknejad, A., Edelbrock, M., Otto, B., and Popplewell, K. 2014. *Deliverable 2.1 of EC FP7-2013-NMP-ICT-FOF Project FLEXINET (Grant No. 608627): Conceptual-model for Business Model Innovation.*

Jaekel, F.W., Petrovic, D., Niknejad, A., Edelbrock, M., Urwin, E. and Young, B. 2014. *Deliverable 4.1 of EC FP7-2013-NMP-ICT-FOF Project FLEXINET (Grant No. 608627): Reference procedures and reference model fragments for establishing new business models.*

Edelbrock, M., Niknejad, A., Schlosser, S., Petrovic, D., Otto, B., and Popplewell, K. 2015. *Deliverable 2.3 of EC FP7-2013-NMP-ICT-FOF Project FLEXINET (Grant No. 608627): Design Specification for Business Model Innovation.*

## Book Chapters

Niknejad, A. and Petrovic, D. (2013) 'Introduction to Computational Intelligence Techniques and Areas of Their Applications in Medicine'. in *Medical Applications of Artificial Intelligence*. ed. by Agah, A. CRC Press, 51–70

## Conference Papers

Niknejad, A., Petrovic, D., Popplewell, K., Jaekel, F.W. and Pajkovska-Goceva, S. (2016) 'A New Framework for Strategic Risk Analysis in a Global Pump Manufacturing Network'. in Proceedings of the 8th International Conference for Interoperability for Enterprise Systems and Applications. held 2016 at Guimarães, Portugal.

Jaekel, F.W., Schlosser, S., Otto, B., Petrovic, D. and Niknejad, A. (2016) 'Seamless interrelation between business strategies and tactical planning'. in Proceedings of the 8th International Conference for Interoperability for Enterprise Systems and Applications. held 2016 at Guimarães, Portugal.

Niknejad, A., Popplewell, K. and Petrovic, D. (2016) 'Software Supported Risk Management for the Global Production Networks Configuration'. in Proceedings of the 8th International Conference for Interoperability for Enterprise Systems and Applications. held 2016 at Guimarães, Portugal.

Jaekel, F.W., Gering, P., Wintrich, N., Petrovic, D. and Niknejad, A. (2016) 'Integration of risk and interoperability into integrated management systems'. in Proceedings of the 8th International Conference for Interoperability for Enterprise Systems and Applications. held 2016 at Guimarães, Portugal.

Niknejad, A. and Petrovic, D. (2011) 'A Genetic-Fuzzy Framework for Optimization of Reverse Logistics Networks with Multiple Recovery Routes.' in *Keynotes and Short Papers of OR53 Annual Conference*. held 2011 at Nottingham, UK. 53–58

Niknejad, A. and Ghasem-Sani, G. (2009) 'Design and Development of a Persian to English Translator Prototype at Semantic Level'. in *Proceedings of 14th National CSI (Computer Science of Iran) Computer Conference*. held March, 2009 at Tehran, Iran. [Paper and Poster Presentation, in Persian].

## Conference Abstracts

Niknejad, A., Panagiotis, A., Achurra Gonzalez, P.B. and Tsigkakos, V. (2016) 'Analysing World Events Using the GDELT dataset and Google BigQuery'. in *Conference Program of 1st Conference of Research Software Engineers*. held 15-16 September, 2016 at Manchester, UK. [Abstract]

Niknejad, A., Petrovic, D. and Popplewell, K. (2015) 'Risk in Global Production Networks: Evaluation of Inoperability under Uncertainty'. in *Conference Program of 27<sup>th</sup> European Conference on Operational Research*. held 12-15 July, 2015 at Glasgow, UK. 294 [Abstract]

Petrovic, D. and Niknejad, A. (2013) 'Fuzzy Logic Based Model for Determining Recovery Routes for Returned Products in Reverse Logistics Networks'. in *Conference Handbook of OR55 Annual Conference*. held 3-5 September, 2013 at Exeter, UK. 59 [Abstract]

Petrovic, D. and Niknejad, A. (2013) 'Two Phase Optimisation of Reverse Logistics Networks Considering the Quality of Returned Products'. in *Abstract Book of 26<sup>th</sup> European Conference on Operational Research*. held 1-4 July, 2013 at Rome, Italy. 323 [Abstract]

Niknejad, A. and Petrovic, D. (2013) 'Two Phase Optimization of Reverse Logistics Networks'. in *Proceedings of 6<sup>th</sup> International Conference of Iranian Operations Research Society*. held 8-9 May, 2013 at Tehran, Iran. 366–367 [Extended Abstract]

Niknejad, A. and Petrovic, D. (2012) 'Two Phase Optimization of the Reverse Logistics Network with Multiple Recovery Routes and Quality Inspection'. in *Conference Handbook of OR54 Annual Conference*. held 4-6 September, 2012 at Edinburgh, UK [Abstract]

Alirezaee, M.R., Niknejad, A., and Alirezaee, N. (2009) 'New Features and Capabilities of Data Envelopment Analysis Online Software (DEAOS)'. in *Proceedings of 23<sup>rd</sup> European Conference on Operational Research*. held 5-8 July, 2009 at Bonn, Germany. [Abstract]

Alirezaee, M.R., Emrouznejad, A., Afsharian, M., Niknejad, A., and Alirezaee, N. (2007) 'Data Envelopment Analysis Online Software (DEAOS)'. in *Proceedings of 22<sup>nd</sup> European Conference on Operational Research*. held 8-11 July, 2007 at Prague, Czech Republic. [Abstract]

## Peer-reviews

- International Journal of Production Research
- Journal of Intelligent Manufacturing
- Journal of Applied Mathematical Modelling
- Journal of Simulation
- International Journal of Systems Science: Operations & Logistics

## Funding Proposals

- Innovate UK Open Funding Competition (2016) - CharterDirect Shipping Online Marketplace
- H2020-IND-CE-2016-17 FOF-11-2016 (2016) - BRIGHTNET (Collaborative and highly configurable software platform for the design of resilient manufacturing production networks)

- EPSRC Autonomous Manufacturing (2015) - Evolving self-learning systems for autonomous configuration and optimisation of manufacturing process subject to inherent uncertainty

## Seminars

Niknejad, A., Petrovic D., Popplewell, K. (2016) 'Analysis of Risks in Global Production Networks'. in *Coventry University's School of Computing, Electronics and Math (CEM) and the Centre for Mobility and Transport (M&T) Research Seminar*. held 27 January, 2016 at Coventry, UK. [Seminar]

Niknejad, A., Petrovic D., Popplewell, K. (2015) 'Tackling Strategic Risks in Dynamic Global Production Networks'. in *Manufacturing, Materials and Engineering Faculty Research Centre (MME-FRC) Away Day and Research Seminar*. held 23 September, 2015 at Coventry, UK. [Seminar]

## Others

Niknejad, A., Petrovic D., Popplewell, K. (2015) 'Framework for Strategic Risk Management in Global Production Networks - FLEXINET'. in *NASA Langley Uncertainty Quantification Challenge UK Reception*. held 11 November, 2015 at London, UK. [Poster Presentation]

Niknejad, A., Petrovic, D. and Popplewell, K. (2015) 'Risk Management Process Model for Dynamic Global Production Networks'. in *24<sup>th</sup> International Conference on Systems Engineering*. held 8-10 September, 2015 at Coventry, UK. [Presentation]

Niknejad, A. (2014) 'Quantitative Decision Making in Reverse Logistics Networks with Uncertainty and Quality of Returns Considerations' *Unpublished PhD Thesis*. Coventry University, Coventry, UK