

Curriculum vitae

PERSONAL INFORMATION **Dr Ali Niknejad**

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WORK EXPERIENCE

Mar 2016 – Present **Research Associate and Software Developer**

Imperial College, Centre for Transport Studies, London (United Kingdom)

- **Design and development of a web-based charter negotiation platform** for the LNG shipping industry
- Carrying out **scientific research** in charter scheduling, disruption analysis and the use of **big data** for decision making in transport systems
- **Managing PhD and MSc students**

Jan 2014 – Apr 2016 **Senior Research Assistant**

Coventry University, Coventry (United Kingdom)

- Investigating **risk management** in global production networks as part of the FLEXINET project – a collaborative research project funded by the European Union **FP7**
- **Development of a web-based software platform** incorporating novel methods for the management of risk and uncertainty in global production networks, relevant simulation models, and their relationship with economic aspects, at strategic and tactical levels
- Also: **Managing MSc students, delivering tutorials, markings, and writing bids**

Mar 2006 – May 2010 **Lead Software Engineer**

Behin Cara, Tehran (Iran)

- **Design and development of three of the company's main performance analytics tools** (Web-based/SaaS and Windows-based)
- Successful experience **managing a team** of software developers
- Company: A consultancy and decision support software provider for banking, energy and transport sectors

RELEVANT SKILLS

Technical skills Software development: Microsoft .NET Framework 1.1-4.5 & .NET Core 1.0 (**C#**), Visual Studio 2003-2015, C, C++, Python, **Git**, Team Foundation, **ASP.NET (MVC and Web Forms)**, ASP, HTML, **JavaScript**, JQuery, CSS, **AngularJS**, **Cordova** and Windows Forms
Database: **Microsoft SQL Server** 2000-2012, T-SQL, **Azure SQL Database and Data Lake**, Reporting Services and **Entity Framework**
Productivity tools: Microsoft Office 2003-2013 (Excel, Word, Power Point, Access and Visio), LaTeX, Mendeley and Photoshop
Analytics tools: **CPLEX OPL**, **Gurobi Solver**, **Arena**, **Google BigQuery**, **AzureML**, Matlab and R

EDUCATION AND TRAINING

- Jun 2010 – Nov 2014 **PhD in Operational Research** EQF level 8
 Coventry University, Coventry (United Kingdom)
 Thesis title: Quantitative Decision Making in Reverse Logistics Networks with Uncertainty and Quality of Returns Considerations
 Main topics: **Reverse Logistics, Inventory Control, Production Planning, Supply Chain Optimisation, Quality of Returns, Fuzzy Logic, Fuzzy Arithmetic and Genetic Algorithm**
 Fully funded scholarship awarded by Coventry University
- Sep 2006 – Feb 2009 **MSc in Artificial Intelligence** EQF level 7
 Sharif University of Technology, Tehran (Iran)
 Thesis title: Design and Development of a Persian to English Translator Prototype
 Main topics: **Machine Learning, Statistical Pattern Recognition, Natural Languages Processing and Artificial Intelligence Planning**
- Sep 2002 – Mar 2007 **BSc in Applied Mathematics** EQF level 6
 Iran University of Science and Technology, Tehran (Iran)
 Main topics: **Operations Research, Linear Algebra, Numerical Analysis, Statistics and Probability and Stochastic Processes**
- Sep 2002 – Sep 2006 **BSc in Software Engineering** EQF level 6
 Azad University - Tehran South Branch, Tehran (Iran)
 Main topics: **Algorithms Design, Simulation, Artificial Intelligence, Software Engineering and Theory of Languages and Automation**

ADDITIONAL INFORMATION

- Selected Publications**
- 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., 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 [Article in Press].
 - 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. (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
- Courses**
- NATCOR Course on **Convex Optimisation** - July 2012, Brunel University, London
 - NATCOR Course on **Heuristics and Approximation Algorithms** - April 2012, University of Nottingham, Nottingham
- Research interests** Maritime Transport, Scheduling, Big Data Analysis, Supply Chain Modelling and Optimisation, Uncertainty and Risk Management, Fuzzy Optimisation, Reverse Logistics Networks, Machine Learning, Genetic Algorithm
- Languages** English, Persian