

## PERSONAL INFORMATION Ali Niknejad, PhD

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## WORK EXPERIENCE

### Mar 2016 – Present Software Engineer and Researcher

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 Computing Researcher

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**, aimed at delivering **software platform for flexible configuration of global production networks**.
- **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
- Main contributions as **technical lead**:
  - \* Maskan Bank's Performance Monitoring System (PMS)
  - \* Web-based Data Envelopment Analysis Online Software (DEAOS)
  - \* Performance Improvement Management (PIM-DEA v3.0-3.2) software package

## TECHNICAL SKILLS

Software development	Microsoft .NET Framework 1.1-4.5 & .NET Core 1.0 ( <b>C#</b> ), Visual Studio 2003-2015, C, C++, Python, <b>Git</b> , Team Foundation, <b>ASP.NET (MVC and Web Forms)</b> , ASP, HTML, <b>JavaScript</b> , JQuery, CSS, <b>AngularJS</b> , <b>Cordova</b> and Windows Forms
Database	<b>Microsoft SQL Server</b> 2000-2012, T-SQL, Reporting Services and <b>Entity Framework</b>
Cloud	<b>Microsoft Azure</b> and <b>Google Cloud</b>
Productivity tools	Microsoft Office 2003-2013 (Excel, Word, Power Point, Access and Visio), LaTeX, Mendeley and Photoshop
Analytics tools	<b>CPLEX OPL</b> , <b>Gurobi Solver</b> , <b>Arena</b> , <b>Google BigQuery</b> , <b>AzureML</b> , 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**
- Short Courses NATCOR Course on **Convex Optimisation** - July 2012, Brunel University, London  
 NATCOR Course on **Heuristics and Approximation Algorithms** - April 2012, University of Nottingham, Nottingham

## COMMUNICATION SKILLS

- 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
- Talks More than 10 talks at international conferences and seminars, including:
- Sep 2016 - Presenting a novel maritime risk data analysis work at the 1st Research Software Engineers (RSE) conference
  - Mar 2016 - Presenting a novel risk management model at an international conference
  - Mar 2016 - Presenting a workshop on the FLEXINET risk management software