

## Ali Divsalar



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**Assistant Professor**  
**Babol Noshirvani University of Technology**

Faculty of Materials & Industrial Engineering,  
Department of Industrial Engineering,  
Babol Shariati Ave, Mazandaran, Iran

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### **EDUCATION:**

**Post-Doctoral Fellow**, Ghent University, Department of Industrial Management, and External Collaborator at ArcelorMittal Gent Department of Systems and Models, Gent, Belgium 2014-2015

- Research Topic: Machine Scheduling in Steel Shop Scheduling,  
Supervisor: Prof. El-Houssaine. Aghezzaf

**PhD in Industrial Engineering, Operations Research**, KU Leuven, Department of Mechanical Engineering, Center for Industrial Management, Leuven, Belgium 2010-2014

- Thesis: Orienteering Problem with Hotel Selection,  
Supervisors: Prof. Pieter Vansteenwegen; Prof. Dirk Cattrysse

**Master of Industrial Engineering, Economical and Social Systems**, Bu-Ali Sina University, Hamedan, Iran 2004-2006

- Thesis: Designing a model to extract national technology strategy, a case study: Iran national nanotechnology strategy,  
Supervisor: Sepehr Ghazinoory
- Graduated, ranked 1<sup>st</sup>, GPA: 18.88 out of 20.

**Bachelor of Industrial Engineering, Industrial Production**, Iran University of Science and Technology, Tehran, Iran 1999-2003

- Graduated, ranked 1<sup>st</sup>, GPA: 16.89 out of 20

## **PUBLICATIONS:**

### **Articles in internationally reviewed scientific journals**

**Divsalar, A.,** Jandaghi, H., Emami, S. (2019). A multi-day tourist trip planning with multiple time windows and multiple levels of service, *International Journal of Industrial Engineering and Management Science*, 6(1), 98 - 108.

Jandaghi, H., **Divsalar, A.,** Paydar, MM. (2019). A Bi-Objective Vehicle Routing Problem with Time Windows Considering Fuel Consumption and Co2 Emission. *International Journal of Industrial Engineering & Production Research* 30(1),117-134.

Chitsaz, M., **Divsalar, A.,** Vansteenwegen, P. (2016) A two-phase algorithm for the cyclic inventory routing problem. *European Journal of Operational Research* 254 (2), 410-426

**Divsalar, A.,** Vansteenwegen, P., Sörensen, K., Cattrysse, D. (2014). A Memetic Algorithm for the Orienteering Problem with Hotel Selection. *European Journal of Operational Research*, 237 (1), 29-49

**Divsalar, A.,** Vansteenwegen, P., Cattrysse, D. (2013). A Variable Neighborhood Search Method for the Orienteering Problem with Hotel Selection. *International Journal of Production Economics*, 145 (1), 150-160

Ghazinoory, S., **Divsalar, A.,** Soofi, A. (2009). A new definition and framework for the development of a national technology strategy: The case of nanotechnology for Iran. *Technological Forecasting and Social Change*, 76 (6), 835-848.

### **Book chapter**

Divsalar, A., Vansteenwegen, P., Chitsaz, M., Sörensen, K., Cattrysse, D. (2014). Personalized Multi-Day Trips to Touristic Regions: A hybrid GA-VND approach. In: Blum C., Heywood M., Correia J., Divina F., Esparcia-Alcázar A. (Eds.), *LNCS, Evolutionary Computation in Combinatorial Optimization*, Springer

### **Other published books; as author**

Ghazinoory, S., Divsalar, A., Ghazinoory, S. (2012). *Evaluation of National R&D projects; Structures and Methods (In Persian)*. Institute for International Energy Studies, Tehran, Iran.

Forghani, A., Akhouni, A., Elahifard, E., Divsalar, A. (2009). *Factory Planning and Material Transportation (In Persian)*. Jahad-e Daneshgahi, Sharif University of Technology, Tehran, Iran.

### **Papers at international conferences and symposia, published in full in proceedings**

Divsalar, Gh., Jabarzadeh, A., **Divsalar, A.,** Sahebi, H.,(2017) A multi-objective approach for the multi modal green tourist trip design problem, 14th international industrial engineering conference, Tehran, Iran.

Azadeh, A., Saberi, M., **Divsalar, A.** (2009). An integrated fuzzy regression algorithm for oil consumption estimation: a case of Canada (2001-2008). National Operations Research Conference. Babolsar, Iran, June, 2009.

Ghazinoory, S., **Divsalar, A.** (2008). A new concept of national technology strategy; case study: nanotechnology in Iran. International Conference on Engineering and Mathematics (ENMA). Bilbao, Spain, July 2008.

**Divsalar, A.,** Behbood, V. (2007). Customer's knowledge management in supply chain management; using data mining approach. . International Conference of Industrial Engineering. Tehran, Iran, July 2007.

Heidary, E., **Divsalar, A.** (2007). Scenario planning, a strategy evaluation tool; case study: Iran's

nanotechnology strategies. International Conference of Industrial Engineering. Tehran, Iran, July 2007.

**Meeting abstracts, presented at international conferences and symposia, published in proceedings**

- Divsalar, A.**, Emami, S., & Vansteenwegen, P. (2017). A Lagrange Relaxation for the Orienteering Problem with Hotel Selection and Time Windows. *VeRoLog 2017*, Amsterdam, 10-12 July 2017.
- Divsalar, A.**, Vansteenwegen, P., Cattrysse, D. (2013). A personalized multiple day trip to a touristic region. *26<sup>th</sup> European Conference on Operational Research*. EURO|Informs MMXIII. Rome, 1-4 July 2013.
- Divsalar, A.**, Vansteenwegen, P., Cattrysse, D. (2013). A Memetic Algorithm for the Orienteering Problem with Intermediate Facilities. . ORBEL. Kortrijk, Belgium, 7-8 February 2013.
- Chitsaz, M., **Divsalar, A.**, Vansteenwegen, P. (2013). A heuristic for the cyclic inventory routing problem. VvEday of Economic Research 2013-doctoral colloquium in logistics. Hasselt- BE, 13 Dec 2013.
- Divsalar, A.**, Vansteenwegen, P., Cattrysse, D. (2012). Orienteering Problem with Hotel Selection: A variable neighborhood search method. *25th European Conference On Operational Research*. EURO 2012. Vilnius, Lithuania, 8-11 July 2012 (pp. 243).
- Divsalar, A.**, Vansteenwegen, P., Cattrysse, D. (2012). Orienteering Problem with Hotel Selection: A Variable Neighborhood Search Method. *EU/MEeting 2012*. EU/MEeting 2012. Copenhagen, Denmark, 10-11 May 2012.
- Divsalar, A.**, Vansteenwegen, P., Cattrysse, D. (2012). Orienteering Problem with Hotel Selection: A Variable Neighborhood Search Method. *26th Annual Conference of the Belgian Operations Research Society*. Orbel 26. Brussels , Belgium, 2-3 February 2012.
- Divsalar, A.**, Vansteenwegen, P., Cattrysse, D. (2011). Orienteering Problem with Hotel Selection. In Wittevrongel, S. (Ed.), Aghezzaf, E. (Ed.), *25th Annual Conference of the Belgian Operations Research Society*. ORBEL. Ghent, Belgium, 10-11 Feb 2011 (pp. 85-86).

**MASTER AND PHD STUDENTS (SUPERVISOR / ADVISOR):**

**MS Students:**

- **Supervisor:** *The Orienteering Problem with Sequence Dependent Profits*, 2017 – 2019, H. Jandaghi, Babol Noshirvani University of Technology, Babol, Iran
- **Advisor:** *The Multi-Objective Tourist Trip Design Problem* , 2017 – 2019, Gh. Divsalar, Iran University of Science & Technology, Tehran, Iran
- **Advisor:** *Multi-Mode Resource-Constrained Project Scheduling Problem With Uncertainty*, 2016 – 2018, M.Sadeghloo, Babol Noshirvani University of Technology, Babol, Iran
- **Advisor:** *Simultaneous energy consumption and earliness-tardiness minimization in flexible flow shop with variable speeds*, 2017 – 2019, R. Khodadadi, Babol Noshirvani University of Technology, Babol, Iran
- **Supervisor:** *The Bi-Objective Vehicle Routing Problem With Drones* , 2018 – ongoing, A. Esmaeelzadeh, Babol Noshirvani University of Technology, Babol, Iran
- **Supervisor:** *The Cyclic inventory routing problem with shortage and expiry date* , 2018 – ongoing, N. Jahan, Babol Noshirvani University of Technology, Babol, Iran
- **Supervisor:** *The Multi-Objective Home Healthcare Problem*, 2018 – ongoing, Gh. Kordi, Babol Noshirvani University of Technology, Babol, Iran

**PhD Students:**

- **Supervisor:** *The Tourist Personal Trip with Multi-modal transport, variable departure times and time dependent travel time*, 2018 – ongoing, M. Khodadadian, Shomal University, Amol, Iran

### **INDUSTRIAL EXPERIENCES:**

- **External Collaborator**, Department of Systems and Models, ArcelorMittal, Gent, Belgium (October 2014 – September 2015): Developing a new model to schedule steel production activities.

### **ACADEMIC EXPERIENCES:**

- **Faculty Member**, Department of Industrial Engineering, Faculty of Engineering, Payam- e Noor University- Markazi Province, Iran (April 2007 – January 2009)
- **Faculty Member**, Department of Industrial Engineering, Faculty of Engineering, Payam- e Noor University - Mazandaran Province, Iran (January 2009 – Sep 2010)
- **Invited Lecturer**, Azad University of Amol branch, Iran (September 2006- January 2007)
- **Invited Lecturer**, Payam-e Noor University, Arak branch, Iran (September 2007- September 2009)
- Course taught: Engineering Economics & Engineering Management
- **Invited Lecturer**, Payam-e Noor University, Amol branch, Iran (January 2009 - September 2009)
- Course taught: Operation Research
- **Invited Lecturer**, Payam-e Noor University of Babol branch, Iran (January 2009 - September 2009)
- Course taught: Project Management & Inventory Control
- **Board Member** of Industrial Engineering in National Payam-e Noor University (April 2007 Sep 2010)
- **Research Assistant**: Center for Industrial Management, Department of Mechanical Engineering, KU Leuven, Belgium (Sep 2010 – Sep 2014)

### **SOME PROJECTS:**

- **Project administrator** “*Time-Work study & Simulation of production line*”, 2018. *Employer: FAZA Co, Steel Casting and Auto parts producer, Amol, Mazandaran, Iran.*
- **Project senior assistant**, “*Designing the framework of national technology strategy for a special technological area*”, 2007, February. *Employer: Iran scientific policy research center*
- **Project administrator** “*Applying data mining in regional planning; A case study: Development assessment of Markazi Province counties*”, 2008. *Employer: Payam-e Noor University.*
- M.Sc thesis, Bu-Ali Sina University, 2006 , " Model designing to extract national technology strategy, a case study : Iran national nanotechnology strategy ".
- M.Sc project in Fuzzy control, Bu-Ali Sina University , 2005 , " Submitting a Fuzzy Support System to calculate RPN in FMEA "
- M.Sc project in Strategic Management Course, Bu-Ali Sina University, 2005, " Strategic Planning: Related research in an Iranian factory (DESA.CO) ".
- Training Workshop, Bu-Ali Sina University, 2005," Fuzzy sets & systems & it's

applications".

- B.Sc Project in Quality Management Course, IUST , 2003, " Using 7 Steps to Problem Solving technique to solve the inventory problem in an Iranian factory ( DESA.Co ) ".
- B.Sc Project in Production Methods(2) Course , IUST , 2002 , " Scrutiny of the methods using in Thermal Powerhouse production process in a huge factory (Azarab Co)".
- B.Sc project in production Methods(1) course, IUST , 2001 , " Time Management & Work Evaluation of a Assembly line in an Iranian factory ( Gam-Electric.CO ) ".
- B.Sc working project, IUST, 2001, formulating Data Flow Diagrams (DFD) at production planning unit in an Iranian huge factory ( HEPCO ) ".
- B.Sc final project, IUST, 2003, " Feasibility Study for establishing a small factory, Related Research: MDF production factory ".

### **TEACHING EXPERIENCES:**

- *Undergraduate:*

- Engineering Economics
- Fundamentals of Management
- Engineering Management
- Engineering Statistics
- Operations Research
- Strategic Management
- Project Management
- Inventory Control
- Linear Programming
- Project Management

- *Graduate:*

- Combinatorial Optimization
- Integer Programming
- Supply chain network design
- Operations Research in Healthcare

### **COMPUTER SKILLS:**

VC++, LINGO, CPLEX, GAMS, MATLAB, MS PROJECT, MS OFFICE, LaTeX, PYTHON (familiar) R (familiar).

### **PERSONAL INFORMATION:**

**Nationality:** Iranian **Date of Birth:** Sep 21, 1981 **Marital status:** Married, 1 child

## REFERENCES:

Prof. Dr. Pieter Vansteenwegen  
Associate Professor of Operations Research  
Center for Industrial Management  
Department of Mechanical Engineering  
Faculty of Engineering, KU Leuven  
Email: pieter.vansteenwegen@kuleuven.be



Prof. Dr. Dirk Cattrysse  
Full Professor of Operations Research  
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Department of Mechanical Engineering  
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