

# CURRICULUM VITAE

June 2014



## PERSONAL INFORMATION

**NAME** Reza Tavakkoli-Moghaddam

**DATE OF BIRTH** 6 January 1963

**AFFILIATION** School of Industrial Engineering,  
College of Engineering, University of Tehran  
P.O. Box: 11155-4563, Tehran, Iran  
Tel: +98 21 82084183; Fax: +98 21 88013102  
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**CITIZENSHIP** Iranian

**MARITAL STATUS** Married with two children

## EDUCATION

Feb. 1994 – 1997 **PhD Degree**  
**Industrial Research Institute Swinburne**  
**Swinburne University of Technology**  
Research Project: *Design of a Genetic Algorithm to Solve Manufacturing Facilities Layout Problems*

Feb. 1992 – Dec. 1993 **Master of Eng. Sci. Degree (by course work)**  
**Faculty of Engineering**  
**The University of Melbourne**  
Research Project 1: *A management information system for small to medium-size manufacturing firms*  
Research Project 2: *A practical budget model and the use of the standards it develops for the production planning and control of labour, material purchasing and equipment requirement*

Oct. 1991 – Feb. 1992 **Advanced English Course**  
**Hawthorn Institute of Education**  
**442 Auburn Road, Hawthorn, VIC, 3122**  
Language skills: *Speaking, Listening, Reading, and Writing*

Mar. 1985 – Mar. 1989 **Bachelor of Engineering Degree (Hon.)**  
**Department of Industrial Engineering**  
**Iran University of Science & Technology**  
Specialty: *Operations Research; Factory Design*  
Graduate Project: *A Factory design for leather industries (Including: feasibility studies, technical issues, financial reports, and evaluation)*

## **COURSES TAUGHT**

Contributions as a lecturer and tutor to the following subjects at undergraduate and graduate levels:

Advanced Facilities Design, Advance Engineering Economy, Sequencing and Scheduling, Maintenance Planning, Meta-heuristics for Combinatorial Optimization, Production and Operations Management, Feasibility Studies, Simulation, Management Information Systems, Strategic Planning.

## **RESEARCH INTERESTS**

- Facilities Layout and Location
- Supply Chain Network Design
- Cellular Manufacturing Systems
- Sequencing and Scheduling
- Meta-heuristic Algorithms

**Principal investigator of 20 research projects**

## **ACADEMIC & INDUSTRIAL EXPERIENCES**

Jun. 2009 – Now	<b><u>Professor, Department of Industrial Engineering</u></b> <b>College of Engineering, University of Tehran, Iran</b>
Nov. 2010 – Now	<b><u>Associate Member (Invited Scholar), Divisions of Industrial Engineering,</u></b> <b>Department of Engineering Sciences, Academy of Sciences, Iran</b>
Sep. 2010 – Now	<b><u>Editorial Board, Journal of Production &amp; Operations Management,</u></b> <b>Esfahan, Iran</b>
Mar. 2010 – Now	<b><u>Editorial Board, Iranian Journal of Operations Research, Tehran, Iran</u></b>
Jun. 2009 – Now	<b><u>Editorial Board, Journal of Faculty of Engineering, College of Engineering,</u></b> <b>University of Tehran, Iran</b>
Jun. 2009 – Now	<b><u>Editorial Board, International Journal of Engineering, Tehran, Iran</u></b>
Jan. 2008 – Now	<b><u>Member of Committee for Engineering Sciences, College of Engineering,</u></b> <b>University of Tehran, Iran</b>
Jan. 2008 – Now	<b><u>Member of Board, Iranian Operations Research Society, Tehran, Iran</u></b>
Feb. 2007 – Sep. 2007	<b><u>Visiting Professor, Department of Mechanical Engineering,</u></b> <b>The University of British Columbia, Vancouver, Canada</b>
Jun. 2005 – Sep. 2010	<b><u>Member of Technical Committee, Ministry of Science, Research and</u></b> <b>Technology, Tehran, Iran</b>
Jun. 2005 – Nov. 2009	<b><u>Member of INSF Scientific/Specific Committee, Iran National Scientific</u></b> <b>Foundation, Tehran, Iran</b>
Feb. 2005 – June 2009	<b><u>Associate Professor, Department of Industrial Engineering</u></b> <b>College of Engineering, University of Tehran, Iran</b>

Feb. 2005 – Feb. 2007	<b><u>Editorial Board</u>, Journal of Faculty of Engineering, College of Engineering, University of Tehran, Iran</b>
Sep. 2004 – Oct. 2006	<b><u>Deputy of Research</u>, Department of Industrial Engineering, College of Engineering, University of Tehran, Iran</b>
Dec. 2002 – Aug. 2003	<b><u>Planning Manager</u>, College of Engineering, University of Tehran, Iran</b>
Mar. 2002 – Jun. 2003	<b><u>Member of Founders of the Society of Iranian Value Engineering</u> Tehran, Iran</b>
Sep. 2000 – Feb. 2005	<b><u>Assistant Professor</u>, Department of Industrial Engineering College of Engineering, University of Tehran, Iran</b>
Sep. 2000 – Oct. 2002	<b><u>Deputy of Research</u>, Department of Industrial Engineering College of Engineering, University of Tehran, Iran</b>
Mar. 1991 – Sep. 1991	<b><u>Design Engineer (Plant layout)</u>, Ministry of Roads and Transportation Sari, Iran</b>
Nov. 1989 – Feb. 1991	<b><u>Engineer (Supervision for Industrial Plants)</u>, Ministry of Heavy Industries Tehran, Iran</b>

### **PRIZES & AWARDS**

Dec. 2011	<b><u>Distinguished Researcher</u> (1<sup>st</sup> Rank) in Engineering discipline, 20<sup>th</sup> Research Festival, University of Tehran, Iran, 2011.</b>
Dec. 2010	<b><u>Distinguished Researcher</u>, 11<sup>th</sup> Research Festival, Ministry of Science, Research and Technology, Iran, 2010.</b>
Dec. 2010	<b><u>Best Fundamental Research Project</u> in Engineering discipline, 19<sup>th</sup> Research Festival, University of Tehran, Iran, 2010.</b>
Dec. 2009	<b><u>Distinguished Researcher</u> (2<sup>nd</sup> Rank) in Engineering discipline, 18<sup>th</sup> Research Festival, University of Tehran, Iran, 2009.</b>
Aug. 2009	<b><u>Third rank author</u> in terms of the number of publications in Engineering discipline, by Islamic World Science Citation Center (ISC) ,Iran, 2009.</b>
Dec. 2008	<b><u>Distinguished Researcher</u> in Engineering discipline, 9<sup>th</sup> Research Festival, Ministry of Science, Research and Technology, Iran, 2008.</b>

### **PUBLICATIONS**

#### **I) Books:**

- [1] **Tavakkoli-Moghaddam, R.**, Norouzi, N., Kalami, S.M, Salamtbakhsh, A., *Meta-heuristic algorithms: Theory and implementation in MATLAB*, Islamic Azad University Press, 2014.
- [2] **Tavakkoli-Moghaddam, R.**, Mirzapour, H. and Seyed Abbas Hosseini, *Introduction to PM planning*, Sanabad Publishing, Mashhad, 2009 (in Farsi).
- [3] **Tavakkoli-Moghaddam, R.** and Ghasemi, R., *Materials management and warehousing*, Rad Andish Nough Publishing, Tehran, 2006 (in Farsi).
- [4] **Tavakkoli-Moghaddam, R.** and Vahdat, S.E., *Monitoring, detecting, and maintaining Diesel engines*, Center of Industrial Research and Training, Tehran, 2005 (in Farsi).

## II) Book Chapters:

- [1] **Tavakkoli-Moghaddam, R.**, Heydar, M. and Mousavi, S.M., A hybrid GA for simultaneously scheduling an FMC under multiple objectives, in: J.S. Yeomans, R. Montemanni and T.E. Nordlander (Eds.), *Lecture Notes in Management Science*, Vol. 5, ISSN 2008-0050 (Print), Tadbir Operational Research Group Ltd., Canada, pp. 133–142, 2013.
- [2] Vahdani, B., **Tavakkoli-Moghaddam, R.** and Mousavi, S.M., Scheduling of trucks in cross-docking systems: A hybrid meta-heuristic algorithm, in: J.S. Yeomans, R. Montemanni and T.E. Nordlander (Eds.), *Lecture Notes in Management Science*, Vol. 5, ISSN 2008-0050 (Print), Tadbir Operational Research Group Ltd., Canada, pp. 125–132, 2013.
- [3] Mousavi, S.M., **Tavakkoli-Moghaddam, R.**, Siadat, A. and Vahdani, B., A hybrid simulated annealing algorithm for location of cross-docking centers in a supply chain, in: M.J. Blesa, C. Blum, P. Festa, A. Roli, and M. Samples (Eds.), *Hybrid Metaheuristics, Lecture Note in Computer Science (LNCS)*, Vol. 7919, Springer-Verlag, Heidelberg, ISBN: 978-3-642-38515-5, pp. 12–21, 2013.
- [4] **Tavakkoli-Moghaddam, R.**, Mousavi, S.M. and Hashemi, H., A fuzzy comprehensive approach for risk identification and prioritization simultaneously in EPC Projects, In: M. Savino (Ed.), *RiskManagement*, IN-TECH, Vienna, Austria, ISBN: 978-953-307-482-5, pp. 123-146, 2011.
- [5] **Tavakkoli-Moghaddam, R.**, Hassanzadeh-Amin, S. and Zhang, G., A proposed decision support system for location selection using fuzzy quality function deployment, In: G. Devlin (Ed.), *Advances in Decision Support Systems*, IN-TECH, Vienna, Austria, ISBN:978-953-307-069-8, pp. 187-202, 2010.
- [6] Javadian, N., Gol Alikhani, M. and **Tavakkoli-Moghaddam, R.**, A discrete binary version of the electromagnetism-like heuristic for solving travelling salesman problem, In: D.-S. Huang, D.C. Wunsch II, D.S. Levine and K.-H. Jo (Eds.), *Advanced Intelligent Computing Theories and Applications. With Aspects of Artificial Intelligence -Lecture Notes in Artificial Intelligence (LNAI)*, Vol. 5227, Springer-Verlag, ISBN 978-3-540-85983-3, DOI: 10.1007/978-3-540-85984-0\_16, pp. 123-130, 2008.
- [7] **Tavakkoli-Moghaddam, R.**, Ghezavati, V.R., Kaboli, A. and Rabbani, M., An efficient hybrid method for an expected maximal covering location problem, In: N.T. Nguyen and R. Katarzyniak (Eds.), *New Challenges in Applied Intelligence Technologies. Studies in Computational Intelligence*, Vol. 134, Springer-Verlag, ISBN 978-3-540-79354-0, pp. 289-298, 2008.
- [8] Panahi, H., Rabbani, M. and **Tavakkoli-Moghaddam, R.**, A comparison of three meta-heuristics for a closed-loop layout problem with unequal-sized facilities, In: N.T. Nguyen and R. Katarzyniak (Eds.), *New Challenges in Applied Intelligence Technologies. Studies in Computational Intelligence*, Vol. 134, Springer-Verlag, ISBN 978-3-540-79354-0, pp. 265-278, 2008.
- [9] **Tavakkoli-Moghaddam, R.**, Khalili, M. and Naderi, B., A variable neighborhood search method for a flowshop scheduling problem to minimize makespan, In: Sheibani, K. (ed.), *Lecture Notes in Management Science*, 2008, Vol. 1, pp. 62-71.
- [10] **Tavakkoli-Moghaddam, R.**, Rahimi-Vahed, A. and Hossein-Mirzaei, A., Solving a multi-objective no-wait flow shop problem by a hybrid multi-objective immune algorithm, in: Levner, E. (Ed.), *Multiprocessor Scheduling: Theory and Applications*, I-Tech Education and Publishing, Vienna: Austria, ISBN 978-3-902613-02-8, 2007, pp. 195-214.
- [11] **Tavakkoli-Moghaddam, R.** and Safaei, N., A new mathematical model for flexible flow lines with blocking processor and sequence-dependent setup time, in: Levner, E. (Ed.), *Multiprocessor Scheduling: Theory and Applications*, I-Tech Education and Publishing, Vienna: Austria, ISBN 978-3-902613-02-8, 2007, pp. 256-272.
- [12] Mirghorbani, S.M, Rabbani, M., **Tavakkoli-Moghaddam, R.** and Rahimi-Vahed, A., A multi-objective particle swarm for a mixed-model assembly line sequencing, In: K.-H. Waldmann and U.M. Stocker (Eds.), *Operations Research Proceedings 2006 - Part VI*, Karlsruhe, Germany, September 6-8, 2006, ISBN 978-3-540-69994-1, pp. 181-186, DOI: 10.1007/978-3-540-69995-8\_30.
- [13] Rabbani, M., Rahimi-Vahed, A., Javadi, B. and **Tavakkoli-Moghaddam, R.**, A new approach for mixed-model assembly line sequencing, In: K.-H. Waldmann and U.M. Stocker (Eds.), *Operations Research Proceedings 2006 - Part VI*, Karlsruhe, Germany, September 6-8, 2006, ISBN 978-3-540-69994-1, pp. 169-174, DOI: 10.1007/978-3-540-69995-8\_28.
- [14] Rahimi-Vahed, A., Rabbani, M., **Tavakkoli-Moghaddam, R.**, Jolai, F. and Manavizadeh, N., Mixed-model assembly line sequencing using real options, In: K.-H. Waldmann and U.M. Stocker (Eds.), *Operations Research Proceedings 2006 - Part VI*, Karlsruhe, Germany, September 6-8, 2006, ISBN 978-3-540-69994-1, pp. 161-167, DOI: 10.1007/978-3-540-69995-8\_27.
- [15] **Tavakkoli-Moghaddam, R.**, Safaei, N. and Babakhani, M., Solving a dynamic cell formation problem with machine cost and alternative process plan by memetic algorithms, In: O.B. Lupanov, O.M. Kasim-Zade, A.V.

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No. of published journal papers = 368

No. of published conference papers = 325

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### List of journal papers published in 2014:

- 1) Mohammadi, M., Iranmanesh, S.H., **Tavakkoli-Moghaddam, R.**, Abdollahzadeh, M. and Sedehzadeh, S., Hierarchical alpha-cut fuzzy C-means, fuzzy ARTMAP and Cox regression model for customer churn prediction, *Int. J. of Engineering, Transactions C: Aspects*, Accepted for publication, DOI: , 2014.
- 2) Madani-Isfahani, M., **Tavakoli-Moghaddam, R.** and Naderi, B., Multiple cross docks scheduling using two meta-heuristic algorithms, *Computers and Industrial Engineering*, Accepted for publication, DOI: 10.1016/j.cie.2014.05.009, 2014.
- 3) Zahiri, B., **Tavakkoli-Moghaddam, R.** and Pishvae, M.S., A robust possibilistic programming approach to multi-period location-allocation of organ transplant centers under uncertainty, *Computers and Industrial Engineering*, Accepted for publication, DOI: 10.1016/j.cie.2014.05.008, 2014.
- 4) Vahdani, B., Mousavi, S.M., **Tavakkoli-Moghaddam, R.**, Ghodratnama, A. and Mohammad, M., Robot selection by a multiple criteria complex proportional assessment method under an interval-valued fuzzy environment, *Int. J. of Advanced Manufacturing Technology*, Accepted for publication, DOI: 10.1007/s00170-014-5849-9, 2014.
- 5) Hatefi, S.M., Jolai, F., Torabi, S.A. and **Tavakkoli-Moghaddam, R.**, Reliable design of an integrated forward-reverse logistics network under uncertainty and facility disruptions: A fuzzy possibilistic programming model, *KSCE Journal of Civil Engineering*, Accepted for publication, DOI: , 2014.
- 6) Vahedi-Nouri, B., Fattahi, P., **Tavakkoli-Moghaddam, R.** and Ramezani, R., A general flow shop scheduling problem with consideration of position based learning effect and multiple availability constraints, *Int. J. of Advanced Manufacturing Technology*, Accepted for publication, DOI: 10.1007/s00170-014-5841-4, 2014.
- 7) Naderi-Beni, M., Ghobadian, E., Ebrahimnejad, S. and **Tavakkoli-Moghaddam, R.**, A fuzzy bi-objective formulation for a parallel machines scheduling problem with machine eligibility restrictions and sequence-dependent setup times, *Int. J. of Production Research*, Accepted for publication, DOI: 10.1080/00207543.2014.916430, 2014.
- 8) Hatefi, S.M., Jolai, F., Torabi, S.A. and **Tavakkoli-Moghaddam, R.**, A credibility constrained programming for reliable forward-reverse logistics network design under uncertainty and facility disruptions, *Int. J. of Computer Integrated Manufacturing*, Accepted for publication, DOI: 10.1080/0951192X.2014.900863, 2014.
- 9) Kheirandish, O., **Tavakkoli-Moghaddam, R.** and Karimi-Nasab, M., An artificial bee colony algorithm for a two-stage hybrid flowshop scheduling problem with multilevel product structures and requirement operations, *Int. J. of Computer Integrated Manufacturing*, Accepted for publication, DOI: 10.1080/0951192X.2014.880805, 2014.
- 10) Jolai, F., **Tavakkoli-Moghaddam, R.**, Rabiee, M. and Gheisariha, E., An enhanced invasive weed optimization for makespan minimization in a flexible flowshop scheduling problem, *Scientia Iranica*, Accepted for publication, 2014.
- 11) Hajipour, V., Mehdizadeh, E. and **Tavakkoli-Moghaddam, R.**, A novel Pareto-based multi-objective vibration damping optimization algorithm to solve multi-objective optimization problems, *Scientia Iranica*, Accepted for publication, 2013.
- 12) Soltani, R., Sadjadi, S.J. and **Tavakkoli-Moghaddam, R.**, Robust cold standby redundancy allocation for non-repairable series-parallel systems through Min-Max regrets formulation and benders decomposition method, *Proc. of the Institution of Mechanical Engineers -Part O: Journal of Risk and Reliability*, Accepted for publication, DOI:10.1177/1748006X13514962, 2013.
- 13) Tabrizi, B.H., **Tavakkoli-Moghaddam, R.** and Ghaderi, S.F., A two-phase method for a multi-skilled project scheduling problem with discounted cash flows, *Scientia Iranica*, Accepted for publication, 2013.
- 14) Ghannadpour, S.F., Noori, S. and **Tavakkoli-Moghaddam, R.**, A multi-objective vehicle routing and scheduling problem with uncertainty in customers' request and priority, *J. of Combinatorial Optimization*, Accepted for publication, DOI: 10.1007/s10878-012-9564-x, 2012.
- 15) Kia, R., Javadian, N. and **Tavakkoli-Moghaddam, R.**, A simulated annealing algorithm to determine a group layout and production plan in a dynamic cellular manufacturing system, *J. of Optimization in Industrial Engineering*, Vol. 7, No. 14, pp. 37-51, 2014.

- 16) Shirazi, H., Kia, R., Javadian, N. and **Tavakkoli-Moghaddam, R.**, An archived multiobjective simulated annealing for a dynamic cellular manufacturing system, *J. of Industrial Engineering – International*, DOI: 10.1007/s40092-014-0058-6, Vol. 10, No. 58, pp. 1-17, 2014.
- 17) Javadi, B., Jolai, F., Slomp, J., Rabbani, M., and **Tavakkoli-Moghaddam, R.**, A hybrid electromagnetism-like algorithm for dynamic inter/intra-cell layout problem, *Int. J. of Computer Integrated Manufacturing*, DOI:10.1080/0951192X.2013.814167, Vol. 27, No. 6, pp. 501-518, 2014.
- 18) Mousavi, S.M., Vahdani, B., **Tavakkoli-Moghaddam, R.** and Tajik, N., Soft computing based on fuzzy grey compromise solution approach with an application to the selection problem of material handling equipment, *Int. J. of Computer Integrated Manufacturing*, DOI: 10.1080/0951192X.2013.834460, Vol. 27, No. 6, pp. 547-569, 2014.
- 19) Attar, S.F., Mohammadi, M., **Tavakkoli-Moghaddam, R.** and Yaghoubi, S., Solving a new multi-objective hybrid flexible flowshop problem with limited waiting times and machine-sequence-dependent set-up time constraints, *Int. J. of Computer Integrated Manufacturing*, DOI: 10.1080/0951192X.2013.820348, Vol. 27, No. 5, pp. 450-469, 2014.
- 20) Tajik, N., **Tavakkoli-Moghaddam, R.**, Vahdani, B., Mousavi, S.M., A robust optimization approach for pollution routing problem with pickup and delivery under uncertainty, *J. of Manufacturing Systems*, DOI: 10.1016/j.jmsy.2013.12.009, Vol. 33, No. 2, pp. 277-286, 2014.
- 21) Mousavi, S.M., Vahdani, B., **Tavakkoli-Moghaddam, R.** and Hashemi, H., Location of cross-docking centers and vehicle routing scheduling under uncertainty: A fuzzy possibilistic-stochastic programming model, *Applied Mathematical Modelling*, DOI: 10.1016/j.apm.2013.10.029, Vol. 38, Nos. 7-8, pp. 2249-2264, 2014.
- 22) Ghorbani, M., Arabzad, S.M. and **Tavakkoli-Moghaddam, R.**, A multi-objective fuzzy goal programming model for reverse supply chain design, *Int. J. of Operational Research*, DOI: 10.1504/IJOR.2014.058947, Vol. 19, No. 2, pp. 141-153, 2014.
- 23) Javanmard, S., Vahdani, B. and **Tavakkoli-Moghaddam, R.**, Solving a multi-product distribution planning problem in cross docking networks: an imperialist competitive algorithm, *Int. J. of Advanced Manufacturing Technology*, DOI: 10.1007/s00170-013-5355-5, Vol. 70, No. 9-12, pp. 1709–1720 , 2014.
- 24) Javadian, N., **Tavakkoli-Moghaddam, R.**, Amiri-Aref, M. and Shiripour, S., Two meta-heuristics for a multi-period minisum location-relocation problem with line restriction, *Int. J. of Advanced Manufacturing Technology*, DOI: 10.1007/s00170-013-5511-y, Vol. 71, Nos. 5-8, pp. 1033–1048, 2014.
- 25) **Tavakkoli-Moghaddam, R.**, Sakhaii, M. and Vatani, B., A robust model for a dynamic cellular manufacturing system with production planning, *Int. J. of Engineering, Transactions A: Basics*, DOI: 10.5829/idosi.ije.2014.27.04a.09, Vol. 27, No. 4, pp. 587-598, 2014.
- 26) Mousavi, S.M., **Tavakkoli-Moghaddam, R.** and Siadat, A., Optimal design of the cross-docking in distribution networks: Heuristic solution approach, *Int. J. of Engineering, Transactions A: Basics*, DOI: 10.5829/idosi.ije.2014.27.04a.04, Vol. 27, No. 4, pp. 533-544, 2014.
- 27) Ebrahimnejad, S., Mousavi, S.M., **Tavakkoli-Moghaddam, R.** and Heydar, M., Risk ranking in mega projects by fuzzy compromise approach: A comparative analysis, *J. of Intelligent and Fuzzy Systems*, Accepted for publication, DOI: 10.3233/IFS-130785, Vol. 26, No. 2, pp. 949–959, 2014.
- 28) Arabzad, S.M., Ghorbani, M. and **Tavakkoli-Moghaddam, R.**, Service quality based distributor selection problem: A hybrid approach using fuzzy ART and AHP-FTOPSIS, *Int. J. of Productivity and Quality Management*, DOI: 10.1504/IJQM.2014.059172, Vol. 13, No. 2, pp. 157-177, 2014.
- 29) Akhshabi, M., **Tavakkoli-Moghaddam, R.** and Rahnamay-Roodposhti, F., A hybrid particle swarm optimization algorithm for a no-wait flow shop scheduling problem with the total flow time, *Int. J. of Advanced Manufacturing Technology*, DOI: 10.1007/s00170-013-5351-9, Vol. 70, Nos. 5-8, pp. 1181-1188 2014.
- 30) Kia, R., Khaksar-Haghani, F., Javadian, N. and **Tavakkoli-Moghaddam, R.**, Solving a multi-floor layout design model of a dynamic cellular manufacturing system by an efficient genetic algorithm, *J. of Manufacturing Systems*, DOI: 10.1016/j.jmsy.2013.12.005, Vol. 33, No. 1, pp. 218-232, 2014.
- 31) Mohammadi, M., Torabi, S.A., **Tavakkoli-Moghaddam, R.**, Sustainable hub location under mixed uncertainty, *Transportation Research - Part E: Logistics and Transportation Review*, DOI: 10.1016/j.tre.2013.12.005, Vol. 62, No. 1, pp. 89-115, 2014.
- 32) Fattahi, P., Hosseini, S.M.H, Jolai, F. and **Tavakkoli-Moghaddam, R.**, A branch and bound algorithm for hybrid flow shop scheduling problem with setup time and assembly operations, *Applied Mathematical Modelling*, DOI: 10.1016/j.apm.2013.06.005, Vol. 38, No. 1, pp. 119–134, 2014.
- 33) Shahsavari-Pour, N., **Tavakkoli-Moghaddam, R.** and Basiri, M.A., A new approach for trapezoidal fuzzy numbers ranking based on Shadow Length and its application to manager's risk taking, *J. of Intelligent and Fuzzy Systems*, DOI: 10.3233/IFS-120716, Vol. 26, No. 1, pp. 77-89, 2014.
- 34) Ghannadpour, S.F., Noori, S., **Tavakkoli-Moghaddam, R.** and Ghoseiri, K., A multi-objective dynamic vehicle routing problem with fuzzy time windows: Model, solution and application, *Applied Soft Computing*, DOI: 10.1016/j.asoc.2013.08.015, Vol. 14PC, pp. 504-527, 2014.

- 35) Fallah-Tafti, A., Sahraeian, R., **Tavakkoli-Moghaddam, R.** and Moeinipour, M., An interactive possibilistic programming approach for a multi-objective closed-loop supply chain network under uncertainty, *Int. J. of Systems Science*, DOI: 10.1080/00207721.2012.720296, Vol. 45, No. 3, pp. 283-299, 2014.
- 36) Gahi, R. and **Tavakkoli-Moghaddam, R.**, A holding strategy to optimize the bus transit service, *Int. J. of Industrial Engineering & Production Research*, Vol. 25, No. 1, pp. 33-40, 2014.