CURRICULUM VITAE

Mehdi TOLOO

March 2022

1 Personal Details

- Professional:

  Full Professor: Technical University of Ostrava (Vysoká škola báňská – Technická), Sokolská, Ostrava, Czech Republic, Tel (Office): +420 597 322 009, Email: mehdi.toloo@vsb.cz ; Web: http://homel.vsb.cz/~tol0013/

  Full Professor: Sultan Qaboos University (جامعة السلطان قابوس), Muscat, Oman, Email: m.toloo@suq.edu.om

  Visiting Professor: University of Turin (Università degli Studi di Torino), Turin, Italy, Email: mehdi.toloo@unito.it

- ORCID: 0000-0002-6977-4608
- SCOPUS: 23494212000
- Web of Science Researcher ID: F-7575-2019

2 Education and Awards

- **Habilitation** — VŠB-Technical University of Ostrava, Department of Systems Engineering, *Data Envelopment Analysis with Selected Models and Applications*, 2016, Ostrava, Czech Republic.
- **Ph.D.** — Azad University, Science and Research Branch, Applied Mathematics (Operations Research), *Self-Similar Network Flows: Theory & Applications*, 1996 -2002, Tehran, Iran.
- **MSc.** — Azad University, Karaj Branch, Applied Mathematics (Operations Research) *Computational Accuracy in DEA*, 1993 -1996, Karaj, Iran.
- **BSc.** — Razi University, Pure Mathematics, 1989-1993, Kermanshah, Iran.
- Top University Researcher (2021).
- Awarded for the most active academic worker according to R&D outputs (2019). • Awarded for the most active academic worker according to R&D outputs (2017).
- Awarded for the most active academic worker according to R&D outputs (2015).
- Awarded for the most active academic worker according to R&D outputs (2014).
- Awarded for the most significant research outputs of Faculty of Economics (2014).
- Dean's awarded for the best publication for 2014-2016 years.

- Awarded at: The 3rd Festival in Honor of The University Elites (2009).
- "Top 25 Hottest Articles" by Computers & Industrial Engineering (ELSEVIER) for article A[4] below.
- "Best Reviewer Award", OMEGA, ELSEVIER, 2020.
- Certificate of Outstanding Contribution in Reviewing", Tourism Management Perspectives, ELSEVIER, (May 2018).
- "Certificate of Outstanding Contribution in Reviewing", Expert Systems with Applications, ELSEVIER, (July 2017).
- "Certificate of Outstanding Contribution in Reviewing", Computers & Industrial Engineering, ELSEVIER, (May 2017).
- "Certificate of Outstanding Contribution in Reviewing", OMEGA, ELSEVIER, (December 2016).
- Ranked 3rd in Nationwide Graduate Entrance Exam to Iranian universities applicants for M.Sc. in mathematics.
- Ranked 2nd in Nationwide Graduate Exam to Iranian universities applicants for Ph.D. in mathematics.
- Graduated by 2nd rank in Ph.D.

3 Languages and Skills

- Persian Language: Native (Mother tongue)
- English Language: Fluent
- Czech Language: Beginner
- Competent in using MS. Office Software (Access, Excel, MS. Project, PowerPoint, Word, FrontPage, Visio), Microsoft Windows, Macintosh, Mac OS X, Latex.
- Competent in using Operational Research software: GAMS, Lingo, Lindo, WinQSB, DEA Solver, Decision Science (DS), and R.
- Competent in using Statistical Software: Minitab and SPSS.
- Competent in programming with Visual FOXPRO, TURBO PASCAL, C++, and Visual Basic.
- Competent in using Mathematics Software: MATLAB and MATEMATICA.

4 Academic and Professional Experience

4.1 Employment

- **Full Professor**, Department of Systems Engineering and Informatics, Faculty of Economics, VŠB-Technical University of Ostrava, Ostrava, Czech Republic, 2013-present.
- **Full Professor**, Department of Operations Management & Business Statistics, College of Economics and Political Science, Sultan Qaboos University, Muscat, Oman, 2020-present.
- **Adjunct Professor**, Department of Management, School of Management and Economics, University of Turin, Turin, Italy, 2018-present.
- **Associate Professor**, Department of Applied Mathematics (Operations Research), Azad University, Central Tehran Branch, Tehran, Iran, 1999-2013.

4.2 Teaching Experience

- **BSc.** —Fundamental of Computer, Foundation of Algorithms, Data Structure, Programming with Pascal, Programming with C, Advanced Programming with Visual Basic, Microsoft Excel, Microsoft Access, Mathematica, MATLAB, Operations Research, Calculus, Graph Theory,
  Statistic and Probability. *Faculty of Basic Sciences, Islamic Azad University, Tehran, Iran, 1999-2013,*
- **BSc.** —Microsoft Excel, Microsoft PowerPoint, Microsoft Access, Mathematica, Operations Research, *Faculty of Management, University of Tehran, Tehran, Iran, 2001-2011,*
- **BSc.** —Operations Research, *Faculty of Economics, VSB-TU Ostrava, Czech Republic, 2016-2017,*
- **BSc.** —Statistics for Business, *School of Management, University of Turin, Italy*, 2018.
- **BSc.** —Mathematics for Business and Finance, *School of Management, University of Turin, Italy*, 2019.
- **BSc.** —Mathematics for Business and Finance, *Faculty of Business, University of Economics, Prague, Czech Republic*, 2019.
- **BSc.** —Statistics for Business, *Department of Operations Management & Business Statistics, Sultan Qaboos University, Oman*, 2020.
- **BSc.** — Time Series Forecasting for Business, *Department of Operations Management & Business Statistics, Sultan Qaboos University, Oman*, 2020
- **BSc.** — Applied Optimization Methods, *Department of Operations Management & Business Statistics, Sultan Qaboos University, Oman*, 2020.
- **MSc.** —Computer Simulation, Fuzzy Sets, Network Flows, Advanced Operations Research, Linear Programming, Integer Programming, Non-Linear Programming, Dynamic Programming, Multi-Criteria Decision Making. *Faculty of Basic Sciences, Islamic Azad University, Tehran, Iran, 2005-2013.*
- **MSc.** —Business Diagnostics, Special Seminar for Diploma Thesis, *Faculty of Economics, VSBTU Ostrava, Czech Republic*, 2016-2017.
- **MSc.** —Quantitative Methods in Decision Making (QMDM), *School of Management, University of Turin, Italy*, 2018.
- **MSc.** — Special Topics in Operations Management, Sultan Qaboos University, Muscat, Oman, 2020.
- **MSc.** — Operational Management, Sultan Qaboos University, Muscat, Oman, 2021.
- **MSc.** — Business Modelling and Optimization, Sultan Qaboos University, Muscat, Oman, 2021.
- **Ph.D.** —Evaluation of Performance and Efficiency (Data Envelopment Analysis), Advanced Linear Programming, Advanced Dynamic Programming, Advanced Non-Linear Programming,
  Faculty of Basic Sciences, Islamic Azad University, Tehran, Iran, 2010-2013.
- **Ph.D.** —Quantitative Methods of Economic Analysis (QMEA), *Faculty of Economics, VSB-TU Ostrava, 2016-present.*

4.3 Supervision or co-supervision of PhD's:

- **E. K. Mensah**, *Robust Optimization in Data Envelopment Analysis: Extended Theory and Applications,* Department of Economics, University of Insubria, Varese, Italy, 2019.
- **H. Naseri,** *Stochastic Noise and Heavy Tailed (Stable) Distribution in DEA,* Department of Industrial Engineering, Islamic Azad University, Science and Research, Tehran, Iran, 2018.
- **E. Keshavarz,** *Solving the multi-objective network flow optimization problems by a DEA methodology*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2015.
- **A. Mahmoodirad**, *Modeling and solving a multi-product fixed charge solid transportation problem in a supply chain by meta-heuristics*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2015.
- **A. Masoumzade,** *Increasing discriminating power in DEA*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2014.
- **S. Nalchigar**, *A new methodology to develop and evaluate context-aware recommender systems based on data mining*, Department of Information Technology Management, University of Tehran, Iran, 2014.
- **S. Banihashemi,** *Optimization modeling of portfolio and sensitivity analysis supply chains*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2014.

4.4 Supervision or co-supervision of MSc

- **L.P. Navas,** *Application of DEA to public sectors of Colombia with some extensions of model development*, Department of Industrial Engineering, Universidad de los Andes, Bogotá, Colombia, 2018.
- **M. Barat,** *Quantitative data in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2006.
- **M. Ahmadzadeh,** *Using lexicographic parametric programming for identifying efficient units in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2006.
- **E. Sabertahan,** *A new framework in solving data envelopment analysis models*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2006.
- **S. Bahiraee,** *Evaluation of information technology investment: a data envelopment analysis approach*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2006.
- **E. Sarfi,** *Performance measuring and data categorizing in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2007.
- **N. Aghaee,** *Overall efficiency and effectiveness measuring in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2007.

- **M. Yekkalam Tash,** *Decomposition in data envelopment analysis: a relational network*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2008.
- **M. Shadab,** *Data envelopment analysis based on auctions*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2008.
- **S. Ghorbani,** *Ranking of units on the DEA frontier with common set of weights*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2008.
- **A. Hashemi,** *Balanced score card and data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2008.
- **S. Soleimani Nadaf,** *Two-level optimization and data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **S. Ranjbar,** *Two-stage processes in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **Z. Dinarvand,** *Classifying inputs and outputs based on distance function*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **E. Falatouri,** *Data mining and data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **M. Maleklou,** *Evaluation of credits risk using data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **A. Zandi,** *Neural network and its application in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **Z. Molaee,** *Presenting data envelopment analysis graphically*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **L. Narimisa,** *Multi-objective problems and data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **H. Gharaee,** *SBM models in two-stage network structures*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **N. Chalambari,** *Two-stage network structures in DEA: a game theory approach*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **S. Hassan Nejad,** *Ratio data in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **Z. Khoshhal,** *Supplier selection using data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.
- **V. Choobkar,** *Undesirable input and output modeling in efficiency analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2005.

- **S. Sadeghi,** *A model for decision making ranking with sum-zero profit and comparing with some ranking models*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2005
- **M. Mirsadeghpoor,** *Network DEA: evaluating the efficiency of organization with complex internal structure*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2006
- **M. Sahraee,** *Models for performance evaluation and cost efficiency with price uncertainty and its application to banks braches assessment*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2006
- **Gh. Rozbehi,** *Interval efficiency measurement with imprecise data*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2007
- **Kh. Nasrollahzadeh,** *Optimal paths and costs of adjustment in dynamic DEA models and application*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2007.
- **S. Joshaghani,** *Centralized resource allocation models: a data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2008.
- **H. Saleh,** *A fuzzy DEA/AR approach to the selection of flexible manufacturing System*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2008
- **S. Nalchigar,** *A new framework for ranking associate rules of data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2009.
- **M. Izadkhah,** *Integrating DEA-oriented performance assessment and target setting using interactive MOLP methods*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **P. Madhooshi,** *The improved OWA model and determining the most preferred OWA Operator*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **S. Rahmatfam,** *Cross-efficiency and determination of ultimate cross efficiency weights*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **S. Mamizadeh,** *Supply chain management in data envelopment analysis*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **R. Motefaker Fard,** *Measurement of multi-period aggregative efficiency*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2010.
- **E. Keramati,** *Some extensions about integrating DEA-oriented performance assessment*, Department of Mathematics and Statistics, Islamic Azad University, Central Tehran Branch, Tehran, Iran, 2011.

4.5 PhD Researcher Visitors

- **E. K. Mensah**, Department of Economics, University of Insubria, Varese, Italy, 2017-2018.

4.6 Postdoc Researcher Visitors

- **Arabmaldar, A.,** Department of Mathematics, Faculty of Sciences, Golestan University, Gorgan, Iran, 2016.
- **Keshavarz, E.**, Department of Mathematics, Sirjan Branch, Islamic Azad University, Sirjan, Iran, 2016.
- **Hatami-Marbini, A.**, Université Catholique de Louvain, Belgium, 2015.

4.7 PhD Examiner

Mahdi Mahdiloo, *Efficiency Evaluation Using Data Envelopment Analysis by Modelling the Sum of Linear Ratios*, Department of International Business and Asian Studies, Griffith Business School, Griffith University, Australia, 2015.

Amir Shabani, *Supply Chain Networks: Quantitative Models for Measuring Performance,* Department of Supply Chain Analytics, School of Business and Economics, University Amsterdam, Netherlands, 2020.

4.8 MSc Examiner

Mayssa Imad Salah Bougherra, *E-government Performance in Democracies versus Autocracies*, Department of Political Science, College of Economics and Political Science, Sultan Qaboos University, 2020.

Sharifa Alkindi, *The Impact of Political Risk on the GCC Capital Inflow,* Department of Political Science, College of Economics and Political Science, Sultan Qaboos University, 2020.

Abdulaziz Al Alawi, *The Impacts of COVID-19 on Oman's National Health Security,* Department of Political Science, College of Economics and Political Science, Sultan Qaboos University, 2020.

4.9 Others (Services)

- Chair of Department Research Committee, Sultan Qaboos University, 2021-
- A member of College Academic Promotion Committee, Sultan Qaboos University, 2020- • A member of College Recruitment Committee, Sultan Qaboos University, 2020- • A member of College Research Committee, Sultan Qaboos University, 2020-
- A member of Ethics, Responsibility, and Sustainability College Committee, Sultan Qaboos University, 2020.
- A member of POLS Department Academic Promotion Committee, Sultan Qaboos University, 2021-
- A member of OMBS Department Academic Promotion Committee, Sultan Qaboos University, 2021-
- A member of Omani Authority for Academic Accreditation and Quality Assurance of Education Committee, Sultan Qaboos University, 2021-

5 Scientific Activities

5.1 Research interests

- Performance Evaluation (Data Envelopment Analysis)
- Operations Research
- Operations Management
- Supply Chain Management
- Multi-Criteria Decision Making
- Optimization
- Machine Learning

5.2 Funded projects

[22] *Performance evaluation in the presence of unclassified factors,* Czech Science Foundation, Czech Republic, ČACR project number: 19-13946S, 2019-2021. Budget: 172,000 € https://starfos.tacr.cz/en/project/GA19-13946S (Principal Investigator)

[21] *Economies of Scope in Network Data Envelopment Analysis Models,* Czech Science Foundation, Czech Republic, ČACR project number: 17- 23495S, 2017-2019. Budget: 126,000 € https://starfos.tacr.cz/en/project/GA17-23495S (Principal Investigator)

[20] *Multiple Criteria Decision Making Modelling: Novel Weighting Methods and Hybrid Approaches,* Czech Science Foundation, Czech Republic, ČACR project number: 17- 22662S, 2017-2018. Budget: 70,000 €, https://starfos.tacr.cz/en/project/GA17-22662S

[19] *Selective Measures in DEA: Theory and Applications,* Czech Science Foundation, Czech Republic, ČACR project number: 16-17810S, 2016-2018. Budget: 106,000 € https://starfos.tacr.cz/en/project/GA16-17810S (Principal Investigator)

[18] *Examining Allocative Efficiency Through Network Data Envelopment Analysis,* Czech Science Foundation, Czech Republic, ČACR project number: 14-31593S, 2014-2016. Budget: 65,000 € https://starfos.tacr.cz/en/project/GA14-31593S (Principal Investigator)

[17] *Research Team for Modelling of Economic and Financial Processes at VŠB-TU Ostrava,* Technical University of Ostrava, Ostrava, Czech Republic. European Social Project CZ.1.07/2.3.00/20.0296, 2013-2015. Budget: 1,180,000 €, https://starfos.tacr.cz/en/project/EE2.3.20.0296

[16] *Discriminating Power in Data Envelopment Analysis,* SGS project VŠB-TUO SP2017/141, 2017.

[15] *Multi-Stage Optimization Of Selected Economic Processes Under Uncertainty,* SGS project VŠBTUO SP2016/116, 2016.

[14] *Support for Science and Research in the Moravian-Silesian region 2014 DT 1,* International research teams, Moravskolezky Kraj, Technical University of Ostrava, 02722/2014/RRC.

[13] *Spatial Localization of Competitiveness Factors and their Impact on Effectiveness of NUTS 2 Regions in EU28 Countries,* The Ministry of Education, Youth and Sports, Czech Republic, SGS project VŠB-TUO SP2014/111, 2014.

[12] *Support for Science and Research in the Moravian-Silesian Region 2013, International research teams, Moravskolezky Kraj, Technical University of Ostrava, 02613/2013/RRC.*

[11] *Inputs and outputs classifier models in DEA,* Azad University Central Tehran Branch, 2012.

[10] *Best efficient DMU selection in DEA,* Azad University Central Tehran Branch, 2012.

[9] *A New Method for Ranking Discovered Rules from Data Mining by DEA,* Azad University Central Tehran Branch, 2008.

[8] *Efficiency Measurement of Faculties of Azad University Central Tehran Branch,* Azad University Central Tehran Branch, 2006.

[7] *Comparison between Maximum Flow Algorithms in Network Flows,* Azad University Central Tehran Branch, 2005.

[6] *Comparison of DEA, Regression Analysis, and Goal Programming Methods,* Azad University of Central Tehran Branch, 2002.

[5] *Using Extreme Recession Directions for Finding Unique Bound of Non-Archimedean Epsilon For CCR Model in Data Envelopment Analysis,* Azad University Central Tehran Branch, 2001.

[4] *Sensitivity Analysis of Additive Model in Nonparametric Methods,* Azad University South Tehran Branch, 2001.

[3] *Determining Threshold Value with Considering Restriction of the Number of Cells in Group Technology,* Azad University South Tehran Branch, 2000.

[2] *An Efficient Method for Finding Non-Archimedean Epsilon in Data Envelopment Analysis Models,* Azad University South Tehran Branch, 2000.

[1] *Unique Bound of Non-Archimedean Epsilon for CCR Model in Data Envelopment Analysis,* Azad University Central Tehran Branch, 1999.

5.3 Programming Projects (Individual):

- Programmer of the inventory software for VAIO department in SONY cooperation agency in Iran (*with Visual Basic macro in EXCEL).*
- Programmer of the software to calculate and assurance of salary fees in Madaen Hospital, *Tehran, Iran (with FoxPro).*
- Programmer of the *first* employment managing software in Iran, *Razi University, Kermanshah, Iran, 1992.*

5.4 Visiting professorships

- University of Turin, Turin, **Italy**, 2018, 2019, 2020.
- VŠE-University of Economics in Prague, Prague, **Czech Republic**, September 2019.
- Universidade Federal Fluminense, Rio de Janeiro, **Brazil**, October 2019.
- Federal University of São Paulo, **Brazil**, October 2019.

- Universidade Federal do Rio Grande do Norte, Natal, **Brazil**, June & October 2019. •
  University of Economics in Prague, **Czech Republic**, September-October 2019
- Universidade Federal do Rio de Janeiro, Rio de Janeiro, **Brazil**, June 2019.
- Istanbul Technical University & Bahçeşehir University, Istanbul, **Turkey**, April 2019.
- University of Insubria, Varese, **Italy**, March 2017.

- Aston University, Birmingham, **England**, May 2016.
- University of Seville, Seville, **Spain,** February 2015.
- Istanbul Technical University, Istanbul, **Turkey**, July-August 2012.
- Federal Technological University of Paraná, Medianeira, Parana, **Brazil**, January-March 2009.

5.5 Publications

5.5.1 Citations and Rankings

Statistics obtained in **January 2022** based on "Publish or Perish" ([www.harzing.com/pop.htm)](www.harzing.com/pop.htm).

Papers	108
Citations	2233
Cites/year	124.06
Cites/paper	20.68
h-index	28
g-index	44

Amin & Toloo (2007) Computers & Industrial Engineering, among 25 hot top articles in 2007.

5.5.2 Under review submissions

[13] Tone, K., **Toloo, M.,** Izadikhak, M., Selecting slacks-based data envelopment analysis models**, European Journal of Operational Research.**

[12] Hadadi, A., Nikoo, M. R., Nematollahi, B., AlRawas, G., Al-Wardy, M., Toloo, M., Gandomi, A. H., Entropy-based Air Quality Monitoring Networks Optimization using NINP and Bayesian Maximum Entropy, **Transactions on Engineering Management.**

[11] Tavana, M., Toloo, M., Banker, R., Cvetkoska, V., Time Envelopment Analysis: A New Method for Effectively Incorporating Time Series in Data Envelopment Analysis, **Operations Research.**

[10] Toloo, M., Khodabandelou, R., Oukil, A., A comprehensive bibliometric analysis of Fractional Programming (1965-2020), **Annals of Operations Research**.

[9] Baziyad, H., Kayvanfar, H., Toloo, M., Opinion Leader Identification on Online Social Networks: A Data Envelopment Analysis Application, **Decision Support Systems**, 1st Revision submitted.

[8] Keshavarz, E., Toloo, M., Hatami-Marbini, A., *Generalized classifier data envelopment analysis models,* **European Journal of Operational Research,** 1st Revision submitted.

[7] Dorfeshan, Y., Taleizadeh, A., Toloo, M., *Assessment of risk-sharing ratio with considering budget constraint and disruption risk under a triangular Pythagorean fuzzy environment in public-private partnership projects*, **Expert Systems with Applications.** 1st Revision submitted.

[6] Mahdi Mahdiloo, Amir E. Andargoli, Mehdi Toloo, Charles Harvie, *Measuring a Digital Inclusion Index with Non-Compensatory Subindexes and Bounded Indicators,* **European Journal of Operational Research.**

[5] Sadeghi, J., **Toloo, M.**, Sahoo, B.K., *Measuring Economies of Scope and Potential Merger of Specialized Firms: A New Approach*, **OMEGA**.

[4] Tone, K., Chang, T., **Toloo, M.**, Xu, *B., Dealing with Ratio Data in Data Envelopment Analysis*, **European Journal of Operational Research**.

[3] Talatahari, A., Azizi, M., Toloo, M., *Optimization of large-scale frame structures using fuzzy adaptive quantum inspired charged system search*, **Structures**.

[2] Azadi, M., **Toloo, M.**, Ramezani, F., Hussain, F.K., *Evaluating efficiency in cloud supply chains: A two-stage network data envelopment analysis*, **IEEE Transactions on Cloud Computing**.

[1] Hatami-Marbini, A., Arabmaldar, Al., Toloo, A., Nehrani, A. M., *The price of robustness in nonradial data envelopment analysis models*, **Expert Systems with Applications**.

5.5.3 Peer-reviewed scholarly journals

[83] Hatami-marbini, A., **Toloo, M.,** Amini, M., Azar, A., *Performance Based-Budgeting Maturity Index: A fuzzy multiple-layer parallel network DEA approach*, **Expert Systems with Applications, 2022.**

[82] **Toloo, M.**, Mensah, E.K., Salahi, M., *Robust optimization and its duality in data envelopment analysis,* **OMEGA,** Vol. 108, 102583, 2022.

[81] **Toloo, M.**, Taghizadeh Yazdi, M., Mohammadi-Balani, A., *Multi-objective centralizationdecentralization trade-off analysis for multi-source renewable electricity generation expansion planning: A case study of Iran*, **Computers & Industrial Engineering,** Vol. 164, 107870, 2022.

[80] Kerstens, K., Sadeghi, J., **Toloo, M.**, Van de Woestynex, I., *Procedures for Ranking Technical and Cost Efficient Units: With a Focus on Nonconvexity*, **European Journal of Operational Research,** Vol. 300, Issue 1, 269-281, 2022, (Ranked A* in ABDC Journal Quality List, IF 5.334).

[79] Izadikhah, M., Azadi, M., Toloo, M., Khadeer Hussain, F., *Sustainably Resilient Supply Chains Evaluation in Public Transport: A Fuzzy Chance-Constrained Two-Stage DEA Approach,* **Applied Soft Computing,** Vol. 113, 107879, 2021, (Q1, IF 6.725)

[78] Wu, X., Ji, Z., Gong, Y., Chen, Y., Toloo, M., *Haze emission efficiency assessment and governance for sustainable development based on an improved network data envelopment analysis method*, **Journal of Cleaner Production**, Vol. 317, 128424, 2021 (Q1, IF: 9.239).

[77] Toloo, M., *An equivalent linear programming form of general linear fractional programming, A duality approach*, **Mathematics**, Vol. 9, 1586, 2021. (Q1, IF 2.258)

[76] Goodarzian, F., Hoseini-Nasab, H., **Toloo, M.,** Fakhrzad, M. *Designing a new Medicine Supply Chain Network considering production technology policy using two novel heuristic algorithms*, **RAIRO - Operations Research**, Vol. 55, Issue 2, 2021. (Q3, IF 1.393)

[75]   Talatahari, S., Azizi, M., **Toloo, M.**, *Fuzzy Adaptive Charged System Search for Global Optimization,* **Applied Soft Computing, Vol. 109,** 107518, 2021 (Q1, IF 6.725)

[74] Arabmaldar, A., Mensah, E., **Toloo, M.**, *Robust worst-practice interval DEA with nondiscretionary factors*, **Expert Systems with Applications,** Vol. 182, 115256, 2021. (Q1, IF 6.954)

[73] **Toloo, M.**, Keshavarz, E., Hatami-Marbini, A., *An Interval Efficiency Analysis with Dual-Role Factors*, **OR Spectrum**, Vol. 43, 255-287, 2021(Q2, IF 1.274).

[72] Babaee, S., **Toloo, M.**, Hermans, E., Shen, Y., *A New Approach for Index Construction: The Case of the Road User Behavior Index*, **Computers & Industrial Engineering**, Vol. 152, 106993, 2021, (Ranked **A** in ABDC Journal Quality List, IF 4.135).

[71] **Toloo, M.**, Ebrahimi, B., Amin, G.R., *New DEA models for classifying flexible measures: the role of non-Archimedean Epsilon*, **European Journal of Operational Research,** Vol. 292, Issue 3, 2021**,** (Ranked A* in ABDC Journal Quality List, IF 5.334).

 [70] Tavana, M., Izadikhah, M., **Toloo, M.**, Roostaee, R., *A New Non-Radial Directional Distance Model for Data Envelopment Analysis Problems with Negative and Flexible Measures*, **OMEGA,** Vol. 102, 102355, 2021 (Ranked **A** in ABDC Journal Quality List, IF 5.324).

 [69] Tavana, M., **Toloo, M.**, Aghayi, N., Arabmaldar, A., *A Robust Cross-Efficiency Data Envelopment Analysis Model in the Presence of Undesirable Outputs*, **Expert Systems with Applications,** Vol. 167, 114117, 2021. (Q1, IF 5.452).

 [68] Kazemi, S., Tavana, M., **Toloo, M.**, Zenkevich, N.A., *A Common Weights Model for Investigating Efficiency-Based Leadership in the Russian Banking Industry*, **RAIRO - Operations Research,** Vol. 55, Issue 1, 2021. (Q3, IF 1.393)

[67] Izadikhah, M., Azadi, E., Azadi, M., Farzipoor Saeen, R., **Toloo, M.**, *Developing a new chance constrained NDEA model to measure performance of sustainable supply chains*, **Annals of Operations Research**, 2020, *in press,* (Ranked **A** in ABDC Journal Quality List, IF 2.583).

[66] Salahi, M., **Toloo, M.**, Torabi, N., *A new robust optimization approach to common weights formulation in DEA*, **Journal of the Operational Research Society**, Vol. 72, Issue 6, 1390-1402 2021, (Ranked A in ERA Journal Quality List, IF 1.077).

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[32] Hatami-Marbini, A., **Toloo, M.,** Agrell, P. J., *A facility location model using DEA,* **28ᵗʰ European Conference on Operational Research**, Poznan, Poland, July 3ʳᵈ -6ᵗʰ, 2016.

[31] Mahdiloo, M., **Toloo, M.,** *Modelling the Sum of Linear Ratios in Data Envelopment Analysis,* **Data Envelopment Analysis International Conference 2016,** Nanjing, China, June 2ⁿᵈ -5ᵗʰ, 2016.

[30] **Toloo, M.,** *On Integrating DEA and AHP for the Facility Layout Design in Manufacturing Systems*, **2015 INFORMS Annual Meeting**, Philadelphia, Pennsylvania, USA, November 1ˢᵗ – 4ᵗʰ, 2015.

[29] **Toloo, M.,** *Multi-Objective Optimization for Periodic Preventive Maintenance,* **6ᵗʰ International Conference on Industrial Engineering and Systems Management (IEEE-IESM 2015)**, Seville, Spain, October 21ˢᵗ -23ʳᵈ 2015.

[28] Babaee, S., Hermans, E., Shen, Y., **Toloo, M.,** Brijs, T., Wets, G., Cuenen, A., *Safety Evaluation of Older Drivers Based on Psychological, Physical and Driving Performance*, **2015 Road Safety & Simulation International Conference,** Orlando, Florida, USA, October 6ᵗʰ -8ᵗʰ 2015.

[27] Hatami-Marbini, A., **Toloo, M.,** *A Bi-Objective Data Envelopment Analysis Model Using a Common Set of Weights*, **13ᵗʰ International Conference on Data Envelopment Analysis (DEA2015)**, Braunschweig, Germany, August 24ᵗʰ–27ᵗʰ 2015.

[26] Hatami-Marbini, A., **Toloo, M.,** *A Multiple Criteria Data Envelopment Analysis Approach to Two-stage Processes*, **14ᵗʰ European Workshop on Efficiency and Productivity Analysis (EWEPA2015),** Helsinki, Finland, June 15ᵗʰ -18ᵗʰ 2015.

[25] **Toloo, M.,** *Evaluation of Market Risk Models Using DEA Approach,* **International Conference on DEA in Economics and Finance (ICDEAEF'15)**, Ostrava, Czech Republic, June 4ᵗʰ-6ᵗʰ, 2015.

[24] **Toloo, M.,** *Performance Assessment of Business Incubators by Using DEA Approach*, **International Conference on DEA in Economics and Finance (ICDEAEF'15)**, Ostrava, Czech Republic, June 4ᵗʰ-6ᵗʰ, 2015.

[23] Barak, S., **Toloo, M.,** *Prioritizing strategies and ranking executive methods by QFD and fuzzy QSPM-Gap analysis*, **11ᵗʰ International Conference on Strategic Management and its Support by Information Systems (ICSMSIS 2015),** Uherské Hradiště, Czech Republic, May

21st -22nd, 2015.

[22] **Toloo, M.,** Keshavarz, E., *A new two-phase approach for holding the strict positivity restriction of weights in DEA models*, **4th World Conference on Business, Economics and Management (WCBEM'15),** Izmir, Turkey, April 30th – May 2nd, 2015.

[21] **Toloo, M.,** Keshavarz, E., *Solving the Bi-Objective Integer Programming: A DEA Methodology,* **2nd International Conference on Control, Decision and Information Technologies (CoDIT'14)**, Metz, France, November 3rd –5th 2014.

[20] **Toloo, M.,** Keshavarz, E., *A slacks-based approach for finding the most BCC-efficient DMU,* **Joint International Symposium on 44th International Conference on Computers & Industrial Engineering (CIE'44) and 9th International Symposium on Intelligent Manufacturing and Service Systems (IMSS'14)**, Istanbul, Turkey, October 14th –16th 2014.

[19] **Toloo, M.,** *Development of Regional Efficiency by Malmquist Productivity Index: Competitive Zones and Risk of Relocating Production Activities,* **7th International Scientific Conference Managing and Modelling of Financial Risks**, Ostrava, Czech Republic, September 8th – 9th 2014.

[18] **Toloo, M.,** Keshavarz, E., *Bus Routes Planning using a Graph Coloring Methodology,* **International Conference on Engineering and Applied Sciences Optimization (OPT-i),** Kos Island, Greece, June 4th – 6th 2014.

[17] **Toloo, M.,** Keshavarz, E., *A Bi-Objective Minimum Cost-Time Network Flow Problem,* **3rd World Conference on Business, Economics and Management, WCBEM'13,** Rome, Italy, April 9th – 11th 2014.

[16] **Toloo, M.,** *Increasing classification gain in DEA-DA approach: an application to bank industry,* **14th International Conference on Finance and Banking Financial Regulation and Supervision in the After-Crisis Period,** Ostrava, Czech Republic, October 16th –17th 2013.

[15] **Toloo, M.,** *Performance measures in data envelopment analysis with an application for bank industry,* **9th International Scientific Conference Financial Management of Firms and Financial Institutions**, Ostrava, Czech Republic, September 9th –10th 2013.

[14] **Toloo, M.,** *On finding the best performer in data envelopment analysis***, 11th International Conference on Data Envelopment Analysis (DEA2013),** Samsun, Turkey, June 27th –30th 2013.

[13] **Toloo, M.,** *A new MILP model for finding the most efficient DMU,* **2010 INFORMS Annual Meeting Special Track in Honor of Professor W. W. Cooper,** Austin, Texas, USA, November 7th – 10th 2010.

[12] **Toloo, M.,** *Ranking DMUs on the benchmark line with equal shadow prices***, 40th International Conference on Computers & Industrial Engineering, CIE40,** Awaji Island, Hyogo, Japan, July 26th – 28th 2010.

[11] **Toloo, M.,** *Cost efficiency in Relational Network DEA***, 7th Biennial International Conference on Data Envelopment Analysis, – iDEAs2009,** Philadelphia, USA, July 10th – 12th 2009**.**

[10] **Toloo, M.,** *Finding the most cost efficient DMU with certain and uncertain input prices***, 39th International Conference on Computers & Industrial Engineering, CIE39,** Troyes, France, July 6th – 8th 2009**.**

[9] **Toloo, M.,** *Centralized additive model***, 39th International Conference on Computers & Industrial Engineering, CIE39,** Troyes, France, July 6th – 8th 2009**.**

[8] **Toloo, M.,** *Efficiency in relational models: DEA approach*, **18ᵗʰ Triennial Conference of the International Federation of Operations Research Societies – IFORS2008,** Sandton, Johannesburg, South Africa, July 13ᵗʰ – 18ᵗʰ 2008.

[7] **Toloo, M.,** *A new integrated DEA model for finding most BCC-efficient DMU*, **18ᵗʰ Triennial Conference of the International Federation of Operations Research Societies – IFORS2008,** Sandton, Johannesburg, South Africa, July 13ᵗʰ – 18ᵗʰ 2008.

[6] Aghaye, N., **Toloo, M.,** *Measuring overall profit efficiency with interval data*, **3ʳᵈ International Conference on Mathematical Sciences – ICM2008,** United Arab Emirates University, UAE, March 3ʳᵈ -6ᵗʰ 2008.

[5] **Toloo, M.,** *An Assurance Interval for the Non-Archimedean Epsilon in DEA models with Rank Order Data,* **5ᵗʰ International Symposium on DEA and Performance Management,** Indian school of business, Hyderabad, India, Jan 5ᵗʰ -7ᵗʰ 2007.

[4] **Toloo, M.,** *On the Evaluation of Information Technology Investment*, **5ᵗʰ International Symposium on DEA and Performance Management,** Indian school of business, Hyderabad,
India, Jan 5ᵗʰ -7ᵗʰ 2007.

[3] **Toloo, M.,** *An Efficient Method for determining □ in DEA*, **31ᵗʰ Annual Iranian Mathematics Conference**, University of Tehran, Tehran, Iran, 2000.

[2] **Toloo, M.,** *Unique Bound of Non-Archimedean epsilon for CCR model in Data Envelopment Analysis*, **29ᵗʰ Annual Iranian Mathematics Conference**, Amir Kabir University of Technology, Tehran, Iran, 1998.

[1] **Toloo, M.,** *Computational Framework of Infinitesimals in DEA: With an Empirical Investigation on Schools*, **28ᵗʰ Annual Iranian Mathematics Conference**, Tabriz University, Tabriz, Iran, 1997.

5.6 Professional services

5.6.1 Editorial Positions and Reviewing of

Articles **Editorial positions:**

- Area Editor, *Computers & Industrial Engineering, Elsevier, 2017-* • Editor, *Journal of Business Logistics, WILEY, 2021-* • Editor, *Healthcare Analytics, Elsevier, 2021-* • Editor, *Decision Analytics, Elsevier, 2021-*

- Associate Editor, *RAIRO - Operations Research, 2018-*

- Guest Editor, *Central European Journal of Operations Research, Special Issue on Performance and Efficiency Evaluation: Recent Developments and Applications,* 2017.

- Editor, *Mathematics, 2020-*

- Editor-in-Chief, *International Journal of Mathematical Modelling & Computations, 20102013.*

- Associate Editor, *African Journal of Business Management, 2018-2019.*

- Associate Editor, *Iranian Journal of Management Studies, 2016-2019.*

- Editorial Board, *American Journal of Operational Research, 2017-.*

- Editorial Board, *International Journal of Mathematical Modelling & Computations, 20102019.*
- Editorial Board, *International Journal of Applied Operational Research, 2011-2019.*
- Editorial Board, *International Journal of Data Envelopment Analysis, 2012-2019.*

Reviewing of Articles

- Applied Mathematics and Computation (Elsevier)
- Applied Mathematical Modelling (Elsevier)
- Applied Mathematics Letters (Elsevier)
- Applied Soft Computing (Elsevier)
- Computers & Industrial Engineering (Elsevier)
- Computers and Mathematics with Applications (Elsevier)
- Ecological Indicators (Elsevier)
- European Journal of Operational Research (Elsevier)
- Expert Systems with Applications (Elsevier)
- Heliyon (Elsevier)
- International Journal of Disaster Risk Reduction (Elsevier)
- International Journal of Electrical Power and Energy Systems (Elsevier)
- Journal of Cleaner Production (Elsevier)
- Journal of Retailing (Elsevier)
- Mathematics and Computers in Simulation (Elsevier)
- Measurement (Elsevier)
- OMEGA (Elsevier)
- Socio-Economic Planning Sciences (Elsevier)
- Transportation Research Part D: Transport and Environment (Elsevier)
- Tourism Management Perspectives (Elsevier)
- Annals of Operations Research (Springer)
- Computational Economics (Springer)
- Fuzzy Optimization and Decision Making (Springer)
- Health Care Management Science (Springer)
- Neural Computing and Applications (Springer)
- Operational Research: An International Journal (Springer)
- OR Spectrum (Springer)
- INFOR: Information Systems and Operational Research (Taylor & Francis)
- International Journal of Management Science and Engineering Management (Taylor & Francis)
- International Journal of Production Research (Taylor & Francis)
- Journal of the Operational Research Society (Taylor & Francis)
- Clean Technologies and Environmental Policy
- Decision Sciences
- International Journal of Industrial and Systems Engineering

- Journal of Applied Mathematics
- RAIRO - Operations Research
- Sustainability

Reviewing of books for the following publishers:

- Series on Advanced Economic Issues, Faculty of Economics, VŠB-TU Ostrava

5.6.2 Memberships and Committees

- Member of *Ph.D. Committee* at University of Insubria, Varese, Italy (2017-2019).
- Member of *Institute for Operations Research & the Management Sciences* (INFORMS).
- Member of *Association of European Operational Research Societies* (EURO).
- Member of *Iranian Operations Research Society* (IORS).
- Counselor of Road & Transportation Undersecretary Minister in the Efficiency Committee.
- Counselor of International Institute of Operational Research.
- Manager of Computer Center at Azad University.
- Research Manager at Azad University.
- Member of Accomplish Team of 31st International Mathematics Conference, Tehran University.

5.6.3 Organization of Seminars and Conferences

Conference Chair

- 7th International Conference on Control 2020, Decision and Information Technology, CoDIT'20, Prague, Czech Republic, June 29th - July 2nd, 2020.
- 3rd International Conference on Data Science and Business Analytics (ICDABA 2019), Istanbul, Turkey, October 11-12, 2019.
- 15th International Conference on Data Envelopment Analysis (DEA2017), Prague, Czech Republic, June 26-29, 2017.
- International Conference on DEA in Economics and Finance (ICDEAEF'15), Ostrava, Czech Republic, June 4-6, 2015.

Plenary Speaker

- 13th International Conference of Iranian Operations Research Society, Sep 6-9, 2020, Shahrood, Iran (virtual).
- XXXIX National Meeting of Industrial Engineering (ENEGEP 2019), Brazilian Association of Industrial Engineering (ABEPRO), São Paulo, Brazil, October 15-18, 2019.
- 2nd International Conference on Data Science and Business Analytics, ChangSha, China, September 21-23, 2018.
- 12th International Conference on Strategic Management and its Support by Information Systems (SMSIS), May 25-26, 2017, VŠB –Technical University Ostrava, Faculty of Economics, Ostrava, Czech Republic.

- 10th International Conference of Iranian Operations Research Society, May 3-5, 2017, Babolsar, Iran.
- International Conference on DEA in Economics and Finance 2015, June 4 - 6, VŠB –Technical University Ostrava, Faculty of Economics, Ostrava, Czech Republic.

Steering Committee

- 6th Data Envelopment Analysis International Conference (DEAIC2021), Changsha, China, June 25-27, 2021.
- 5th Data Envelopment Analysis International Conference (DEAIC2020), Seoul, Korea, June 19-22, 2020.
- 4th Data Envelopment Analysis International Conference (DEAIC2019), Canterbury, UK, June 27-30, 2019.

Organizing and Program Committee

- 50th International Conference of Computers and Industrial Engineering (CIE50), Alexandria, Egypt, October 8-11, 2021.
- 3rd Global Conference on Theory and Applications of OR/OM for Sustainability (GCTAOS), Shanghai Maritime University, Shanghai, China, October 9-12, 2020.
- International Congress & Exhibition on Industrial and Manufacturing Engineering, Barcelona, Spain, September 14-15, 2020.
- 3rd European International Conference on Industrial Engineering and Operations Management, Pilsen, Czech Republic, July 23-26, 2019

Scientific Committee

- 13th International Conference on Multiple Objective Programming and Goal Programming (MOPGP), Marrakech, Morocco, 28-31 October 2019.
- 12th International Conference on Data Envelopment Analysis, Tonekabon, Iran, August 5-6, 2020.
- Cognitive Analytics Management 2018 (CAM2018.), Beirut, Lebanon, November 29-December 1, 2018.
- Data Envelopment Analysis International Conference 2018 (DEAIC2018), Taiwan, June 14-16, 2018.
- 6th International Forum on Industrial Design (IFID2018), Luoyang, China, May 18-20, 2018.
- 11th International Conference of Iranian Operations Research Society, May 2-4, 2018, Kermanshah, Iran.
- International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2018), Cambridge, UK, March 22-23, 2018.
- 12th International Conference on Multiple Objective Programming and Goal Programming (MOPGP2017), Metz, France, October 30-31, 2017.
- Computational and Statistical Methods in Applied Sciences (COSTAS 2017), Samsun, Turkey, November 9-11, 2017.
- The joint Data Envelopment Analysis International Conference 2017 (DEAIC2017) and Taiwan Productivity Workshop, Hefei, China, July 7-10, 2017.

- 15th International Conference on Data Envelopment Analysis (DEA2017), Prague, Czech Republic, June 26-29, 2017.
- 10th International Conference of Iranian Operations Research Society, May 3-5, 2017, Babolsar, Iran.
- International Conference on Applied Mathematics, Simulation and Modelling (AMSM2016), Beijing, China, May 28-29, 2016.
- 14th International Conference on Data Envelopment Analysis (DEA2016), Wuhan, China, May 2326, 2016.
- Data Envelopment Analysis International Conference Methodology Advances and Novel Applications in Governance and Management, DEAIC2016, Nanjing, China, July 2-5, 2016.
- 8th National Conference on Data Envelopment Analysis, Ardabil, Iran, August 3-4, 2016.
- 2nd International Conference on Control, Decision and Information Technology, Metz, France, 2014.
- 3rd Conference on Data Envelopment Analysis, Firozkoh, Iran, 2011.
- 1st National Mathematics Conference, Lahijan, Iran, 2008.

Invited Session Chair

- 13th International Conference on Data Envelopment Analysis (DEA2015), Braunschweig, Germany, August 24th–27th, 2015.
- International Conference on DEA in Economics and Finance (ICDEAEF'15), Ostrava, Czech Republic, 2015.
- 2nd International Conference on Control, Decision and Information Technology, France, 2014.
- 44th International Conference on Computers & Industrial Engineering, Istanbul, Turkey, 2014.
- 3rd Conference on Data Envelopment Analysis, Firozkoh, Iran, 2011.
- 40th International Conference on Computers & Industrial Engineering, Hyogo, Japan, 2010.
- 39th International Conference on Computers & Industrial Engineering, Troyes, France, 2009.