



DARA MOAZZAMI

Professor of Applied Mathematics

Institution address:

University of Tehran,
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University education:

Ph.D. in Mathematics (Combinatorics) 1992, University of Northeastern- Boston, MA., U.S.A.

Thesis Topic: Tenacity and its Properties in Stability Calculation

M.Sc in Applied Mathematics 1978, University of Quebec á Montreal, Canada.

Thesis Topic: Application of Hyperstability Theory in some Economics Systems.

B.sc. in Pure Mathematics 1976, University of Quebec á Montreal, Canada.

Employment:

1993-present, Faculty of Engineering, Department of Engineering Science, University of Tehran, IRAN.

1991-1993. Department of Mathematics and Computer Science, University of Barry, Fulltime Faculty, Miami, Florida, USA.

1987-1991, Temporary lecturer in Mathematics, University of Northeastern-Boston, MA. U.S.A.

1993-2003, Mathematics Researcher, Center for Theoretical Physics and Mathematics, Atomic Energy Organization of Iran, Tehran, Iran.

2002- present, Engineering Optimization Research Group, "http:eorg.ut.ac.ir"

Executive Experiences

2000-2003, Head of Engineering Library, University of Tehran.

2003-2006, Associate dean, College of Engineering, University of Tehran.

2006-2008, Deputy of Undergraduate and Graduate studies, Faculty of Engineering Science, School of Engineering, University of Tehran.

2008-Present, Chairman of Faculty of Engineering Science, School of Engineering, University of Tehran.

2010-2011, Visiting Professor at UCLA (university of California Los Angeles) Mathematics Department, USA.

Subjects Taught:

Undergraduate Level: Combinatorics, Discrete Mathematics, Graph Theory, Algebra, Linear Algebra, Ordinary Differential Equations, Calculus 1, 2 and 3, Numerical Analysis, Algorithm.

Postgraduate Level: Graph Theory and Applications, Advance Algorithm, Complexity theory, Approximation Algorithm, Advance Engineering Mathematics, Calculus of Variation.

Selected Publications:

- 1) Cozzens, M.B., D. Moazzami, S. Stueckle, "The tenacity of the Harary Graphs", **J. Combin. Math. Combin. Comput.** **16** (1994), 33-56.
- 2) Cozzens, M.B., D. Moazzami, S. Stueckle, "The tenacity of a Graph", **Graph Theory, Combinatorics, and Algorithms** (Yousef Alavi and Allen Schwenk eds.)Wiley, New York, (1995), 1111-1112.
- 3) Moazzami, D., "The NSM of a Graph", **Combinatorics Advances**, (C. J. Colbourn and E. S. Mahmoodian, eds.) Kluwer, (1995), 243-250.
- 4) Moazzami, D., "Vulnerability in Graphs - a Comparative Survey", **J. Combin. Math. Combin. Comput.** **30** (1999), 23-31.
- 5) Moazzami, D., "Stability Measure of a graph - a Survey, **J. Utilitas Mathematica** **57** (2000), 171-191.
- 6) Moazzami, D., "On Networks with Maximum Graphical Structure, Tenacity T", **J. Combin. Math. Combin. Comput.** **39** (2001) 121-126.
- 7) Moazzami, D. "A note on Hamiltonian properties of tenacity", Paul Erdős and his Mathematics, (1999), 174-178.
- 8) Moazzami, D., B. Ostadi, and K. Rezaie, "A non-linear programming model for optimization of the electrical energy consumption in typical factory", **Applied Mathematics and Computation** **187** (2007) 944-950.
- 9) Moazzami, D. and B. Salehian, "On the Edge-Tenacity of Graphs" **International Mathematical Forum** **3**, 2008, no. 19, 926-936.
- 10) Moazzami, Dara; B. Salehian, Some results related to the tenacity and existence of k -trees. **Discrete Applied Mathematics**, 157 (2009), no. 8, 1794–1798. 05C05

11) Moazzami, D., "Tenacity of a Graph with Maximum Connectivity" **Discrete Applied Mathematics**, 159 (2011) 367–380.

Papers published in the Proceeding and Professional Lectures:

1. "T-sets and its Properties in Stability Calculation", 23rd South International Conference on Combinatorics, Graph Theory and Computing, February 3-7, 1992 at Florida Atlantic University in Boca Raton, Florida, U.S.A.
2. "Vulnerability in Graphs, A Comparative Survey", Summer School and International Conference on Combinatorics (SSICC'97) from may 25-June 1, 1997, in Hefei, Anhui, the People's Republic of China.
3. "On the Vulnerability Parameters of Networks", Optimal Discrete Structures and Algorithms 97 Conference, Rostock, Germany, September 1997.
4. "Stability Measure of a Graph - a Survey", Combinatorics 98 Conference, June 1997, Palermo, Italy.
5. "A Note on Hamiltonian Properties of Tenacity", Paul Erdős and his Mathematics Conference, July 1999, Budapest, Hungary.
6. "On Networks with Maximum Graphical Structure, tenacity T, and number of vertices p", 17th British Combinatorial Conference, July 1999, University of Kent at Canterbury, UK.
7. "A Survey on Tenacity Parameter in Graphs", Optimal Discrete Structures and Algorithms 2000, September 2000, Rostock, Germany.
8. "On the tenacity of a graph: a comparative survey", 18th British Combinatorial Conference, University of Sussex, 1 to 6 July 2001, UK.
9. "A Survey on Tenacity and its Properties in Stability Calculation", International Congress of Mathematicians, August 20-28, 2002, Beijing, China.
10. "Towards a measure of vulnerability, tenacity of a Graph", Combinatorics 2004, September 12-18, 2004, Catania Italy.
11. "Tenacity of n-connected Graph" September 5-9, 2005, European Conference on Combinatorics, Graph

Theory and Applications at Technische Universität Berlin, Germany.

12. "On the Edge-Tenacity of Graphs" Combinatorics 2006, 25 June - 1 July, 2006, Ischia, Naples, Italy.

13. "Measures of Vulnerability - the Tenacity Family" International Congress of Mathematicians, August 22-30, 2006, Madrid, Spain.

14. "Tenacity and Edge-tenacity in Networks" 21st British Combinatorial Conference, University of Reading, July 8-13, 2007, UK.

15. "A Survey on Tenacity Parameter of Networks" 1st Istanbul Design Theory and Combinatorics Conference in Honor of 70th Birthday of Curt Lindner June 15-21, 2008, Istanbul, Turkish.

16. "Tenacity of n-connected graph", Fete of Combinatorics and Computer Science An international conference on combinatorics and computer science, August 11-15 2008, Keszthely Lake Balaton, Hungary.

17. "Tenacity and Spectrum of a Graph" The 20th Workshop on Topological Graph Theory, Yokohama National University, Nov. 24 to 28, 2008, Yokohama, Japan

Paper in Persian Language and in Iranian Journals:

1) "Analysis of Vulnerability Measures in Graphs", **J. Fani** 33, 2, Sept. 1999, pp. 1-7.

2) "Periodic Solution for third order Nonlinear Differential Equation - a Mathematical Model for Brick of Heavy Vehicle", **J. Fani** 32, 1999, pp. 1-13.

3) "calculation of tenacity of G_n^m " **J. Fani** , 2003. 4) "Graph Theory Approach to Distribution System Management by Feeder Reconfiguration 83, 1, May, 2004, pp. 73-83.

Books translations:

1) "Differential and Integral Calculus" **Bu Ali Sina University Press**, (1986) (by Piskunov).

2) "Graph Theory with Applications", Center of Press, (1999)and (2002) and (2005), (By J.A. Bundy and U.S.R Murty).

3) "Combinatorics" **University of Tehran Press**, (2005), (By Bella Bolabash).

Books written in persian language

- 1) "Ordinary Differential Equation", **Nakhoda Press**, (2003) and (2005).

Reviewer:

Zentralblatt Math, "http:// WWW.emis.de/ZMATH"

WWW-home page: http://WWW.zblmath.fiz-karlsruhe.de

Referee of the Journal:

The Australasian Journal of Combinatorics, Managing Editor: Dr C.P. Bonnington, email: "p.bonnington@auckland.ac.n

Advisory of Graduate Thesis

- 1)" Success Tree Method and Fuzzy set for Evaluation of Uranium Resources" by **Mohammad Reza Nik Goftar**, College of Engineering, Department of Engineering Geology, University of Tehran, 2000.
- 2) "Mathematical Model for Analyzing of Deformation in Tunnels with non circular face, by **Sadegh Sadeghi**, College of Engineering, Department of Engineering Geology, University of Tehran, 2001.
- 3) "GIS Network Analysis for Rescue Optimization" by **Safa Khazai**, College of Engineering, Department of Surveying and Geomatic Engineering, University of Tehran, 2002.
- 4) "Distribution System Automation and Optimization for Loss Reduction with using Graph Theory" by **Hamid Reza Zare**, College of Engineering, Electrical and Computer Engineering Department, University of Tehran, 2002.
- 5) " Tenacity and Spectrum of a Graph", by **Behzad Salehian**, Department of Mathematics, University of Tehran, 2008.
- 6) "Application of information fusion in crisis management" by **Maryam Lotfi Shahreza**, College of Engineering, Faculty of Engineering Science, University of Tehran, 2009.

- 7) "A new approach for measuring trust in large scale social network using network community structure", by **Koorosh Khazai**, College of Engineering, Faculty of Engineering Science, University of Tehran, 2009.
- 8) "An assimilating algorithm for recovery and abandoning two dimensional movement" by **Mir shahab edin razavi hesabi**, College of Engineering, Faculty of Engineering Science, University of Tehran, 2009.
- 9) "Diagram based verification of reactive and real time systems using temporal logic, case study: Fischer's protocol, by College of Engineering, Faculty of Engineering Science, University of Tehran, 2009.

Honors/Awards

- Member of Editorial Board of Engineering Journal "Fani" University of Tehran.
- Editor - in Chief Journal of Algorithms and Computation.
- Member of Board of Center of Excellence in Geomatic Engineering and Disaster Management.
- Elite Professor of Tehran University.