

Navid Ghaffarzadegan

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Last updated on 2010-07-10

EDUCATION

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| PhD in Public Administration and Policy (expected December 2010)
<i>Rockefeller College of Public Affairs, University at Albany, State University of New York</i>
Concentration: Decision and Policy Sciences
Research: security policy, health policy, behavioral decision making, simulation
Dissertation: Critical Policy Thresholds: Descriptive and Prescriptive Analysis of Decision Making and Learning in the Contexts of Security and Public Health
Committee members: Professors David F. Andersen (Chair), Erika G. Martin, Thomas R. Stewart | <i>2006-present</i> |
| Masters of Science in Business Administration
<i>Graduate School of Management and Economics, Sharif University of Technology, Iran</i> | <i>2002-2005</i> |
| Bachelors of Science in Mechanical Engineering
<i>School of Mechanical Engineering, Sharif University of Technology, Iran</i> | <i>1996-2001</i> |

AWARDS

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| <ul style="list-style-type: none">• System Dynamics Society Scholarship | <i>2006-2011</i> |
| <ul style="list-style-type: none">• Barry Richmond Scholarship Award

For the paper “Effect of Conditional Feedback on Learning” in 26th International System Dynamics Conference. The Award is presented annually to a systems thinking or system dynamics practitioner whose work demonstrates a desire to expand the field or to apply it to current social issues (\$1,000). | <i>2008</i> |
| <ul style="list-style-type: none">• Honorable Mention in Dana Meadows Student Paper Award

At 26th Int’l System Dynamics Conference for the paper “Effect of Conditional Feedback on Learning.” The Dana Meadows Award of the System Dynamics Society is given annually for the best paper by a student presented at the annual System Dynamics Conference. | <i>2008</i> |
| <ul style="list-style-type: none">• University at Albany, Political Science Department Research Scholarship (\$1,500) | <i>2007</i> |
| <ul style="list-style-type: none">• Second paper prize winner

Among more than 130 papers accepted for presentation, Tehran International Management Conference for a dynamic policy analysis of controlling stock market bubble. | <i>2004</i> |
| <ul style="list-style-type: none">• “Technical award for innovation” and “championship award” from the American Association of Artificial Intelligence (AAAI)

For the Young Scholars Club’s rescue robot team at the Rescue Robot competition in Seattle, USA. | <i>2002</i> |
| <ul style="list-style-type: none">• “Technical award for innovation” from the American Association of Artificial Intelligence and Robocup organization

For Sharif University’s rescue robot team at the Rescue Robot competition in Seattle, USA. | <i>2001</i> |
| <ul style="list-style-type: none">• Third place in Robocup world competition

For Sharif University’s middle size robot team at the Robocup competition in Melbourne, Australia. | <i>2000</i> |

PUBLICATIONS

Journal Publications

- Navid Ghaffarzadegan. 2008. How a System Backfires: Dynamics of Redundancy Solution in Security. *Risk Analysis* 28(6): 1669 - 1687. - Impact factor = 1.95

This paper elaborates Scott Sagan's hypotheses about effects of redundancy on security. I simulate and analyze a simple and generic security system as more guards are added to the system and examine the effects of different behavioral theories of people's reaction on security.

- Navid Ghaffarzadegan, Amir T. Tajrishi. 2010. Economic Transition Management in a Commodity Market: The Case of the Iranian Cement Industry. *System Dynamics Review* 26(2): 139-161.

This paper represents recommended policies for the Iranian cement industry which deals with an economic transition to market economy. Building on commodity model literature, we develop a cement price model and tailor it for testing different economic transition policies.

- Navid Ghaffarzadegan, John Lyneis, George Richardson. 2010. How Small System Dynamics Models Can Help the Public Policy Process. Forthcoming in *System Dynamics Review*.

Public policies often fail to achieve their intended result due to the complexity of both the environment and the policy making process. In this article, we review the benefits of using small system dynamics models to address public policy questions. First we discuss the main difficulties inherent in the public policymaking process. Then, we discuss how small system dynamics models can address policy making difficulties by examining two promising examples. The paper was presented in a plenary session at the International System Dynamics Conference 2009.

- M. Jamzad, A. Foroughnassiraei, T.Hadji Aghai, V.S.Mirrokn, R. Ghorbani, A. Heydar Noori, M. Kazemi, H. Chitsaz, F. Mobasser, M. Ebraahimi Moghaddam, M. Gudarzi, N. Ghaffarzadegan. 2001. A goal keeper for middle size RoboCup. Published in *Lecture Notes in Artificial Intelligence: RoboCup-2000: Robot Soccer World Cup IV*. pp 583-586, Springer.

Under Review for Publications and Working papers

- Navid Ghaffarzadegan, Erika Martin. 2010. Why Are Patients Treated Differently? A Behavioral Decision Making Approach to Variation in Physician Practice.
- Navid Ghaffarzadegan, David Andersen. 2010. Optimal Warning Policies in a Dynamic Context: How Optimal an Optimal Policy Is.
- Navid Ghaffarzadegan, Laura Black, Don Greer, David Andersen. 2010. The Role of Delays and Iterations in Creating Shared Understanding in Collaborative Product Development Work Teams.
- Navid Ghaffarzadegan, Andrew Whitmore. 2010. Cultural Tools of Framing and Politics of Persuasion in the Persian Blogosphere. Under review.
- Andrew Whitmore, Navid Ghaffarzadegan, Namjoo Choi, Anna Arzrumtsyan. 2010. User Forums, Cross-boundary Communication, and Open Source Software (OSS) Success: A Multi-Method Analysis of Three OSS GIS Applications. Under review.

Peer Reviewed Conference Papers

- Navid Ghaffarzadegan, David Andersen. 2009. Examining the Effectiveness of Optimal Short Term Security Policies in the Long Run: How Optimal Are the Optimal Security Policies? *Association for Public Policy Analysis and Management (APPAM) Conference*. Washington DC.
- Navid Ghaffarzadegan, Laura Black, Don Greer, David Andersen. 2009. Examining Disconnects as Drivers of Cost and Time Overruns in Complex Innovative Government Development Programs: A Multi-Method Approach. *Association for Public Policy Analysis and Management (APPAM) Conference*. Washington DC.
- Navid Ghaffarzadegan, Thomas Stewart. 2009. Modeling the Effect of Conditional Feedback on Learning. *Academy of Management (AOM) Conference*. Chicago.

- Navid Ghaffarzadegan, Laura Black, Don Greer, David Andersen. 2009. Path Dependency and the Role of Delays in Creating Shared Understanding in Dyadic Communication. *International System Dynamics Conference*. Albuquerque. MN.
- Navid Ghaffarzadegan, John Lyneis, George Richardson. 2009. Why and How Small System Dynamics Models Can Help Policymakers: A Review of Two Public Policy Models - plenary session presentation at the *International System Dynamics Conference*. Albuquerque. MN.
- Navid Ghaffarzadegan. 2008. Effect of Conditional Feedback on Learning. *International System Dynamics Conference*. Athens. Greece. *The paper received the Barry Richmond Award and an honorable mention in Dana Meadows Award in the conference.*
- Don Greer, Laura Black, Navid Ghaffarzadegan, David Andersen. 2008. Dyadic Communication to Monitor Project Scope : Social Construction of Meaning in an Aerospace Program. *International System Dynamics Conference*. Athens. Greece.
- Navid Ghaffarzadegan, Amir T. Tajrishi, Niyousha Hosseini. 2007. Economic Transition Management in the Iranian Cement Industry. *International System Dynamics Conference*. Boston, MA.
- Navid Ghaffarzadegan. 2007. How a System Backfires: From a Redundancy Solution to Redundancy Problems in Security. *International System Dynamics Conference*. Boston.
- Navid Ghaffarzadegan. 2007. A Simulation Approach to Redundancy Solution (Problem) in Security. *NAACSOS Conference*. Atlanta.
- Mahshid Ghaffarzadegan, Naghmeh Karbasi, Hamid Foroughi, Keyvan Vakili, and Navid Ghaffarzadegan. 2006. Key Success Factors (KSF) for Research Institutes. *Tehran International Management Conference* (in Persian)
- Ali N. Mashayekhi, Navid Ghaffarzadegan, Babak Mahmoudi Ayough, Nazgol Moshtaghi. 2005. Collaborative BSC Based Action Planning in Imidro. *Tehran International Management Conference*.
- Ali N. Mashayekhi and Navid Ghaffarzadegan. 2005. Stock Market Fluctuations; A System Dynamics Approach. *International System Dynamics Conference*. Boston.
- Ali N. Mashayekhi and Navid Ghaffarzadegan. 2004. Analyzing Stock Market Fluctuations for Developing Policies to Control Market Bubble; A System Dynamics Approach. *Tehran International Management Conference*.
- Mohammad T. Isaii, Nami Attaassadi and Navid Ghaffarzadegan, 2004. Using Genetic Algorithm for Resource Allocation in Crisis Management. *Tehran International Management Conference*.

Other Conference and Seminar Presentations

- Navid Ghaffarzadegan, Thomas Stewart. 2009. Modeling the Effect of Conditional Feedback on Learning. *Society of Judgment and Decision Making (JDM)*. Boston.
- Navid Ghaffarzadegan. 2010. Optimal Public Warning Decisions in a Dynamic Context: Calibration for Criminal Incidents in a University. *MIT-Albany PhD Colloquium at MIT, Boston, MA*.
- Navid Ghaffarzadegan, Laura Black, Don Greer, David Andersen. 2009. Path Dependency and the Role of Delays in Creating Shared Understanding in Dyadic Communication: Lessons from a Simulation Model. *MIT-Albany PhD colloquium at MIT, Boston, MA*.
- Navid Ghaffarzadegan. 2008. Effect of Conditional Feedback on Learning. *Research Institute for Petroleum. Iran*.
- Navid Ghaffarzadegan. 2008. Dynamics of Redundancy in Policy Making. *Research Institute for Petroleum. Iran*.
- Navid Ghaffarzadegan. 2007. Effect of Conditional Feedback on Learning. *MIT-Albany PhD colloquium at Albany. NY*
- Navid Ghaffarzadegan. 2007. Economic Transition Management in Iran's Cement Market. *MIT-Albany PhD colloquium at MIT, Boston, MA*.
- Navid Ghaffarzadegan. 2006. A Simulation Approach to Redundancy Solution (Problem) in Security. *MIT-Albany PhD colloquium at Albany, NY*.

TEACHING EXPERIENCE

Rockefeller College of Public Affairs, State University of New York, Albany

- **Instructor for PUB316 - Methodological Tools for Public Policy (16 students)** *Spring 2010*

Course evaluation: 4.8/5 – including: instructor preparation 5/5, holding to high standards of performance: 5/5, instructor overall: 4.9/5

PUB316 is a required methodological course for research design, and statistics with an emphasis on the interpretation of statistical results. Students examine experimental, quasi-experimental and nonexperimental research designs, summarize and present univariate distributions, perform bivariate and multivariate analyses including simple cross-tabulations and multiple regression analysis, and learn to use a computer to perform statistical and data management operations.

- **Teaching Assistant for PUB624 - Simulating Dynamic Systems** *Fall 2006*

Taught by Professor George P. Richardson (No evaluation of TAs)

National Institutes of Health (NIH)

- **Workshop Assistant for the Track of System Dynamics** (Offered by Professor George P. Richardson at the School of Public Health, Columbia University, NY) *Spring 2010*

Graduate School of Management and Economics, Sharif University of Technology, Iran

- **Teaching Assistant for Learning Organizations** (Taught by Professor Ali N. Mashayekhi) *Spring 2005*
- **Teaching Assistant for System Dynamics** (Taught by Professor Ali N. Mashayekhi) *Fall 2004*
- **Teaching Assistant for System Dynamics** (Taught by Professor Ali N. Mashayekhi) *Spring 2004*
- **Teaching Assistant for Management Information Systems** (Taught by Professor Ali Kermanshah) *Fall 2003*

Different public and private institutes and organizations, Iran

- **Day long workshops on system dynamics, systems thinking, strategic planning** *2004-2005*
- **Instructor for *Principles of Management* and *Math for MBA entrance exam*** *2003-2004*
Developed syllabus and course structure, developed course material, offered the courses five times for the classes of up to 20 students.

ACADEMIC SERVICES

Journal and Conference Review

- Ad hoc Reviewer for Risk Analysis Journal, European Journal of Operational Research (EJOR), Academy of Management Conference (2010), International System Dynamics Conference (2006 – 2010) *2006-2010*

Coordinating Academic Events

- MIT-Albany PhD Colloquium Coordinator. *2007-2008*
- Coordinator of Decision and Policy Sciences Weekly Meetings (Brown Bag) - More than 50 meetings. *2006-2008*
- Coordinator of Poster Symposium in International System Dynamics Conference, Managing a session with more than 100 posters. *2007-2009*
- Elected Representative of Sharif Management School Alumni. *2005-2006*
- Elected President of Mechanical Engineering Students Council. *1999-2000*

Membership in Professional Societies

- Academy of Management (AOM) 2009 – present
- Association for Public Policy Analysis and Management (APPAM) 2009 – present
- System Dynamics Society 2007 – present
- Society of Judgment and Decision Making 2008- 2009

PROFESSIONAL EXPERIENCE

- **International Association of Iranian Managers (I-AIM)** 2005 – present
 - Member of the Board (2010 – present)
 - Talk Coordinator (2006 – 2010)
 - Representative (2005 – 2006)

- **Management Consultant:** 2001-2006
 - **The Iranian Cement Holding** – Analyzing pricing policy, business proposals, and first steps in corporate strategic planning and organization design – *Independent consultant* (2006)
 - **Information Communication and Technology Research Center** – Process and organization design improvement – *Consulting team manager* (2006)
 - **IMIDRO, an Iranian holding with more than 6B\$ annual sales** – Action Planning, Strategic evaluation and Control – *team coordinator under supervision of Professor Mashayekhi* (2005)
 - **National Petrochemical Company** – Designing a process based center to improve performance of project management – *team coordinator under supervision of Professor Mashayekhi* (2004)
 - **Salman Cooperation** – Strategic planning and business process design for a new company – *Consulting team member* (2005)
 - **Jahan Pars Corporate University** – Strategic planning and business process design for a new corporate university – *Consulting team member* (2005)
 - **MABSA Research center, Sharif University** – System design in energy project for the National Iranian Oil Ministry - *Researcher* (2001-2002)
 - **Saman Tadbir** – Thyristor market research – *Consulting team member* (2002) 2001-2006

- **BONYAN researchers Organization (Bonyan e Danesh pazhoohan)**, A private research institute
 - One of the founders
 - Member of the Board (2001 – 2006)
 - Engineer/Project Manager (2001 – 2006)

LANGUAGES

English (Fluent)
Farsi (Native Speaker)
Azeri (Native Speaker)

EXTRACURRICULAR ACTIVITIES

Blogging on the net (in Farsi) since 2004
Sports: badminton, soccer, jogging, and hiking.
A Silver Medal Winner in Badminton in high school, The Fair Play Cup Winner in Soccer in inter-school games.

REFERENCES

- Professor David F. Andersen** Distinguished Service Professor
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- Professor Erika G. Martin** Assistant Professor
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- Professor George P. Richardson** Professor
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- Professor Thomas R. Stewart** Research Professor
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