

Hazhir Rahmandad

Assistant Professor of Industrial and Systems Engineering

Virginia Tech; Northern Virginia Center
7054 Haycock Road, Rm430, Falls Church, VA 22044, U.S.A.
Office: +1-703-538-8434 Cell:+1-617-894-6900
E-mail: hazhir@vt.edu
Website: <http://Web.mit.edu/hazhir/www>

EDUCATION

Massachusetts Institute of Technology
Ph.D. in Management, System Dynamics - Minor Organizational Behavior August 2005

Sharif University of Technology
Bachelor of Science in Industrial Engineering - Minor System Analysis 1996-2000

PAPERS AND PUBLICATIONS

- Rahmandad, H. (in press). Impact of growth opportunities and competition on dynamics of capability development. *Organization Science*. Accepted January 2011. Published online.
- Hu, K.*, Rahmandad, H., Smith-Jackson, T., & Winchester, W. W. (2011). Factors influencing the risk of falls in construction industry: a review of evidence. *Construction Management and Economics*, 29(4): 397-416.
- Rahmandad, H., K. Hu*, R. Duintjer-Tebbens, K. Thompson (2011). Development of an individual-based model for polioviruses: Implications of the selection of network type and outcome metrics. *Epidemiology and Infection*, 139(6), 836-848.
- Zuashkiani, A., Rahmandad, H., & Jardine, A. (2011). Mapping the dynamics of overall equipment effectiveness to enhance asset management. *Journal of Quality in Maintenance Engineering*, 17(1), 74-92.
- Fallah-Fini, S., H. Rahmandad, et al. (2010). "Optimizing highway maintenance operations: dynamic considerations." *System Dynamics Review* 26(3): 216-238.
- Rahmandad, H. and K. Hu (2010). "Modeling rework cycle: comparing alternative formulations." *System Dynamics Review* 26(4): 291-315.
- Rahmandad, H., N. P. Repenning and J. D. Sterman (2009). Effect of Feedback Delays on Learning, *System Dynamics Review*, 25(4): 309-338.
- Rahmandad, H. and D. Weiss (2009). Dynamics of concurrent software development. *System Dynamics Review* 25(3): 224-249.
- Rahmandad, H. (2008). "Effect of delays on complexity of organizational learning." *Management Science* 54(7): 1297-1312.
- Rahmandad, H. and J. Sterman (2008). "Heterogeneity and network structure in the dynamics of diffusion: Comparing agent-based and differential equation models." *Management Science* 54(5): 998-1014.

FUNDED RESEARCH

- Project Title: Impact of market behavior on the adoption and diffusion of innovative green building technologies in residential firms, *Department of Housing and Urban Development*, \$363475, 8/16/2011-8/15/2013, PI Share: 10%. Co PIs: McCoy and Koebel.
- Project Title: Modeling and analyzing the governance of NextGen, Sponsor: *Federal Aviation Administration (FAA)* (Virginia Tech is subcontractor to Stevens Institute of Technology), Funding Amount: \$40,000, Period: 1/1/2011-12/31/2011, PI Share: 100%.
- Project Title: Understanding the dynamics of online communities, Sponsor: *National Science Foundation* (Innovation and Organizational Sciences; Grant # 1027413), Funding Amount: \$149,136, Period: 1/1/2011-12/31/2013, PI Share: 100%.
- Project Title: Modeling obesity dynamics in the U.S., Sponsor: *National Institutes of Health* (Contract #: HHSN27620100004C), Funding Amount: \$247,197, Period: 1/1/2010-5/1/2012, PI Share: 100%.
- Project Title: Applications of Web 2.0 in innovation process, Sponsor: *Companies PRTM and UPM*, Funding Amount: \$28,820, Period: 1/1/2009-8/31/2009. PI Share: 100%.
- Project Title: Efficiency and workflow analysis at MCT, Sponsor: *MCT Information Services*, Funding Amount \$32,130, Period: 5/15/2008, 8/15/2008, PI Share: 33%. Co PIs: Triantis and Hoopes

AWARDS

- IATC "Bridges of Hope" award and scholarship 2005

- Dana Meadows Award for best student paper in International System Dynamics conference 2004
- Dana Meadows Award for best student paper in International System Dynamics conference 2001
- Best paper award - National Industrial Engineering Conference - Tehran 1999
- Gold Medal- International Chemistry Olympiad - Moscow 1996

REASEARCH AND RELATED EXPERIENCE

- Massachusetts Institute of Technology*
Post Doctoral Associate 2005- 2006
- Avaya Corp.*
Research Affiliate 2004-2007
- Consultant** 2007
McClatchy-Tribune, IBM, Kids Risk
- Farsi Teach Net* 2006
Founding Member, Member of Executive Board
- International Association of Iranian Managers (I-AIM)* 2006-Present
Founding Member, Member of Board of Directors
- Iranian Studies Group at M.I.T.* 2002-2007
Founding Member, Executive Board Member

SOFTWARE AND MANAGEMENT FLIGHT SIMULATORS

- Epidemics simulator- In collaboration with XJTechnology - Available at <http://filebox.vt.edu/users/hazhir/www/research.html>
- Software Management Simulator- Available upon request

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Academy of Management
- INFORMS
- IIE
- System Dynamics Society