

MOSTAFA BATOULI

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EDUCATION

PhD in Civil and Environmental Engineering

May 2017

Graduate Assistant, School of Construction

Florida International University, Miami, Florida, US, **G.P.A: 3.99/4.0**

Dissertation Title: Exploratory Assessment of Roadway Infrastructure Adaptation to the Impacts of Sea-Level Rise

Master of Public Administration

July 2015

Green School of International and Public Affairs, Florida International University, Miami, Florida, US,

G.P.A: 4.0/4.0

Graduate Certificate in Homeland Security and Emergency Management

December 2014

Green School of International and Public Affairs, Florida International University, Miami, Florida, US,

G.P.A: 4.0/4.0

M.Sc. in Civil Engineering-Construction Engineering and Management

September 2009

IAU, Science and Research Branch, Tehran, Iran, **G.P.A: 18.35/20.00** (17 is A)

Thesis title: Proposing a Multi-parameter Model for Contractor Selection and Assessment of the Model Applicability

B.Sc. in Civil Engineering - Surveying

April 2006

University of Tehran, Tehran, Iran

High School Diploma

May 2000

National Organization for Development of Exceptional Talents (NODET)

Allame Helli High School, Tehran, Iran

RESEARCH INTERESTS

Sustainable and Resilient Infrastructure, Infrastructure Adaptation to Climate Change, Sustainable Construction, Construction Automation, Project Control and Project Management, Information

Mostafa Batouli, Assistant professor, Department of Civil and Environmental Engineering, The Citadel

Technology in Construction, Life Cycle Assessment, Life Cycle Cost Analysis, Complex System-of-Systems Modeling, Decision-Making under Deep Uncertainty, Disaster and Emergency Management.

PEER REVIEWED JOURNAL PAPERS

1. **Batouli, S. M.**, Zhu, Y., Nar, M., & D'Souza, N. A. (2014). Environmental Performance of Kenaf-fiber Reinforced Polyurethane: a Life Cycle Assessment Approach. *Journal of Cleaner Production*, 66, 164-173.
2. **Batouli, M.**, Bienvenu, M., & Mostafavi, A. (2017). Putting sustainability theory into roadway design practice: Implementation of LCA and LCCA analysis for pavement type selection in real world decision making. *Transportation Research Part D: Transport and Environment*, 52, 289-302.
3. **Batouli, M.**, & Mostafavi, A. (2017). Service and performance adjusted life cycle assessment: a methodology for dynamic assessment of environmental impacts in infrastructure systems. *Sustainable and Resilient Infrastructure*, 1-19.
4. **Batouli, M.**, Mostafavi, A. (2018). Multiagent Simulation for Complex Adaptive Modeling of Road Infrastructure Resilience to Sea-Level Rise. *Computer-Aided Civil and Infrastructure Engineering*, doi:10.1111/mice.12348.
5. Orgut, R.E., Zhu, J., **Batouli, M.**, Mostafavi, A., Jaselskis, E.J. "Metrics That Matter: Core Predictive and Diagnostic Metrics for Improved Project Controls and Analytics", Accepted, *Journal of Construction Engineering and Management*.
6. Orgut, R.E., **Batouli, M.**, Zhu, J., Mostafavi, A., Jaselskis, E.J. "Critical Factors for Improving Reliability of Project Control Metrics throughout the Project Life-cycle", Submitted, *Journal of Management in Engineering*.
7. Inyim, P., **Batouli, M.**, Reyes, M., Carmenate, T., Bobadilla, L., Mostafavi, A. (2018) "A Smartphone Application for Personalized and Multi-Method Interventions toward Energy Saving in Buildings", *Sustainability*, 10(6), 1744.
8. **Batouli, M.**, Mostafavi, A., Chowdhury, A., DyNet-LCCA: A Simulation Framework for Dynamic Network-Level Life Cycle Cost Analysis in Evolving Infrastructure Systems, Submitted, *Journal of Infrastructure Systems*.
9. **Batouli, M.**, Mostafavi, A. Exploratory Assessment of Roadway Infrastructure Adaptation to the Impacts of Sea-Level Rise. In Preparation.

PEER REVIEWED CONFERENCE PAPERS

1. **Batouli, M.**, & Mostafavi, A. (2016). Assessment of Sea-Level Rise Adaptation in Coastal Infrastructure Systems: Robust Decision-Making under Uncertainty, *Proceedings of Construction Research Congress 2016*

Mostafa Batouli, Assistant professor, Department of Civil and Environmental Engineering, The Citadel

2. **Batouli, M.,** & Mostafavi, A. (2016). A Simulation Framework for Sustainability Assessment in Evolving Socio-Technical Infrastructure Systems, ICSDEC16 – International Conference on Sustainable Design, Engineering and Construction
3. Orgut, R., **Batouli, M.,** Zhu, J. , Mostafavi, A., Jaselskis, J. (2016). Metrics that Matter: Evaluation of Metrics and Indicators for Project Progress Measurement, Performance Assessment, and Performance Forecasting during Construction, Proceedings of Construction Research Congress 2016
4. Carmenate,T., Inyim, P, Pachekara, N., Chauhana, G., Bobadillaa, L., Mostafavi,A., **Batouli, M.** (2016). Modeling Occupant-Building-Appliance Interaction for Energy Waste Analysis, ICSDEC16 – International Conference on Sustainable Design, Engineering and Construction
5. **Batouli, M.,** & Mostafavi, A. (2015). Assessment of network-level environmental sustainability in infrastructure systems using service and performance adjusted life cycle analysis, ICSC15 – The Canadian Society for Civil Engineering’s 5th International/11th Construction Specialty Conference
6. Orgut, R. E., Zhu, J., **Batouli, M.,** Mostafavi, A., & Jaselskis, E. J. (2015). A review of the current knowledge and practice related to project progress and performance assessment, The Canadian Society for Civil Engineering’s 5th International/11th Construction Specialty Conference
7. **Batouli, M.,** Mostafavi, A. (2014). A hybrid simulation framework for integrated infrastructure management, Winter Simulation Conference 2014.
8. **Batouli, M.,** Swei, O. A., Zhu, J., Gregory, J., Kirchain, R., & Mostafavi, A. (2015, June). A Simulation Framework for Network Level Cost Analysis in Infrastructure Systems. In International Workshop on Computing in Civil Engineering.
9. **Batouli, S. M.,** Zhu, Y._(2013). Comparative Life-Cycle Assessment Study of Kenaf Fiber-Based and Glass Fiber-Based Structural Insulation Panels. In ICCREM 2013@Construction and Operation in the Context of Sustainability (pp. 377-388). ASCE.
10. **Batouli, S. M.,** & Zhu, Y._(2014). A Framework for Assessing Environmental Implications of an Urban Area, Construction Research Congress 2014
11. **Batouli, S. M.,** & Zhu, Y._(2014). Using Accrual Accounting Life Cycle Assessment as an Indicator of Urban Sustainability, International Conference on Computing in Civil and Building Engineering 2014
12. **Batouli, M.,** Vesali, N., Ghoddousi, P. (2010)“Contractor Selection Criteria: Investigation of Opinions of Iran Construction Practitioners”, 6th International project Management Conference, Tehran, Iran
13. Vesali, N., **Batouli, M.,** Hosseinalipour, M. (2010)“Factors Influencing Bid/No-Bid Decision of Iranian Construction Contractors”, 6th International project Management Conference, Tehran, Iran
14. **Batouli, M.,** Vesali, N., Hosseinalipour, M. (2008) “Multi-parameter contracting and prequalification: A comparative study”, 2nd National Conference on Projects Procurement System, Tehran, Iran

15. Vesali, N., **Batouli, M.**, Hosseinalipour, M. (2008) “Factors affecting mark-up decisions among large contractors in Iran”, 2nd National Conference on Projects Procurement System, Tehran, Iran

RESEARCH REPORTS

1. **Batouli, M.**, Bienvenu, M. & Mostafavi, A. (2016). Development of Life-Cycle Assessment (LCA) and Life-Cycle Cost Analysis (LCCA) for Pavement-Type Selection for SR-836 Extension, Research Study for the Miami-Dade Expressway Authority (MDX)
2. Orgut, R; **Batouli, M.**; Zhu, J; Jaselskis, E; Mostafavi, A (2016) “Metrics That Matter: Improving Project Progress and Performance Assessment, Research Study for the Construction Industry Institute, Austin, TX.
3. Orgut, R; **Batouli, M.**; Zhu, J; Jaselskis, E; Mostafavi, A (2016) “Project Control Improvement (PCI) Software and User Guide, Research Study for the Construction Industry Institute, Austin, TX.

AWARDS & HONORS

- Third Place Best PhD Poster Award, Construction Research Congress, 2016
- Dissertation Year Fellowship, Florida International University, 2016
- Student Government Association Graduate Scholarship Award, 2015
- Graduate Student Appreciation Week (GSAW) Scholarly Forum Third Poster Award, 2015
- University Wide Scholarship Award, Florida International University, 2014
- PhD Colloquium Scholarship, Winter Simulation Conference, 2014
- FIU Finalist for Odebrecht Award for Sustainable Development, 2013
- Ranked 2nd among 40 students in the Department of Engineering and awarded a scholarship, Islamic Azad University, Science and Research Branch, 2007
- Ranked 2nd among 40 students in the Department of Engineering and awarded a scholarship, Islamic Azad University, Science and Research Branch, 2008
- Ranked 6th among more than 12,000 applicants in National Azad University Matriculation for graduate students, Fall 2006
- Ranked 1270th among more than 500,000 students in the Nationwide Universities Matriculation, Summer 2000
- Ranked 3rd in Chess competition among Iranian students, 1994
- Ranked 1st in Scientific competition of students in province of Tehran, 1994

TEACHING EXPERIENCE

Instructor

Construction Documentation and Communication

Spring 2018, Summer 2018

***Mostafa Batouli**, Assistant professor, Department of Civil and Environmental Engineering, The Citadel*

Construction Sitework and Equipment	Fall 2017, Spring 2018
Construction Materials and Methods	Fall 2017
Management of Construction Projects	Summer 2017
Co-Instructor:	
Construction Information Systems	Summer 2017
Sustainable Construction	Spring 2014, Spring 2015
Topics in International Construction	Spring 2018
Teaching Assistant:	
Sustainable Construction	Spring 2012, Spring 2013
Construction Scheduling	Fall 2013
Online Course Moderator:	
Construction Information Systems	Summer 2014, Summer 2015, Summer 2016
Topics in International Construction	Spring 2015, Spring 2016
Management of Construction Organization	Fall 2014, Fall 2015, Fall 2016
Guest Lecturer:	
Sea Level Solutions Interdisciplinary Studio	Spring 2016- Spring 2017

PROFESSIONAL EXPERIENCE

[Fall 2018- Present] **Assistant Professor of Construction Engineering**
Department of Civil & Environmental Engineering; The Citadel

[Fall 2017-Summer 2018] **Visiting Professor of Construction Management**
Moss School of Construction, Infrastructure, & Sustainability; Florida International University

[Summer 2017] **Adjunct Professor**
Moss School of Construction, Infrastructure, & Sustainability; Florida International University

[2012-2017] **Research and Teaching Assistant**
Moss School of Construction, Infrastructure, & Sustainability; Florida International University

[2009- 2011] **Quality Control Director**
Iranian Concrete Manufacture; Tehran, Iran

[2007- 2009] **Quality Control Coordinator**
Iranian Concrete Manufacture; Tehran, Iran

[2006-2008] **Assistant Project Manager (part time)**
Parsan Engineering Company; Tehran, Iran

[2004-2006] **Surveying Engineer, Assistant Project Manager (part time)**
Parsan Engineering Company; Tehran, Iran

Mostafa Batouli, Assistant professor, Department of Civil and Environmental Engineering, The Citadel

COMPUTER SKILLS

Programming Language: Java, Visual C++, Visual Basic, and MATLAB

Technical Software: Anylogic, Arc GIS, Revit, SPSS, AutoCAD, MS Project, Primavera Project Planner, SimaPro LCA Software, Athena Impact Estimator for Buildings, Athena Pavement LCA

Tools: Microsoft Office, @Risk, Adobe Photoshop, etc.

REFERENCES

[Dr. A. Mostafavi](#), Assistant Professor, Zachry Department of Civil Engineering, Texas A&M University, Email: amostafavi@civil.tamu.edu ; Ph: 979-845-4856

[Dr. I. Ahmad](#), Professor, Director, Moss School of Construction, Infrastructure and Sustainability; Florida International University; Email: ahmadi@fiu.edu ; Ph: 305-348-3172

[Dr. N. Ganapati](#), Associate Professor, Department of Public Administration, Florida International University, Email: ganapat@fiu.edu ; Ph: 305-348-0436

[Dr. E. Jaselskis](#), Clancy Distinguished Professor, Department of Civil, Construction, and Environmental Engineering, North Carolina State University, Email: ejjasels@ncsu.edu ; Ph: 919-515-1158

[Dr. A. Chowdhury](#), Professor, Department of Civil and Environmental Engineering, Florida International University Chowdhur@fiu.edu ; Ph: 305-348-0518

All documents are available upon request.