

SHU-CHIEN (Mark) HSU

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EDUCATION and AWARDS

UNIVERSITY OF MARYLAND, COLLEGE PARK, MD, expected to graduate at spring 2012

Ph.D. Candidate, Project Management Program, Civil and Environmental Engineering

- *Construction Management American Association (CMAA) Scholarship* (2009)
- *Department of Civil and Environmental Engineering Fellowship* (2009)
- *Bechtel Fellowship* (2008/2009)

NATIONAL CENTRAL UNIVERSITY, Chunli, TAIWAN, 2000~2006

Master of Science, Institute of Construction Engineering and Management, 2006

- *The Best Poster Award* (2006)
- *Outstanding Student Scholarship* (2006)

Bachelor of Science, Civil Engineering Major, 2004

RESEARCH INTERESTS

Project Complexity, Carbon Regulation and Trading, Decision Support System, Project and Corporate Finance, Change Management, and Dispute Management

PROFESSIONAL EXPERIENCE

UNIVERSITY OF MARYLAND, COLLEGE PARK, MD, USA, 09/2008~present

Graduate Teaching Assistant, Department of Civil and Environmental Engineering, 09/2008~present

- Courses: Legal Aspects of Engineering Practice, Construction Equipment and Methods, Project Cost Accounting and Finance, and Introduction to Project Management.

Graduate Research Assistant, Department of Civil and Environmental Engineering, 01/2009~01/2010

- Developing a decision model for “*Selecting Project Condition Investigation Technology on Renovation and Revamp Projects*”, 2009
- Establishing liability’s identity for *building construction projects and develop a model of trust construction in China*, 2009

TAIWAN CONSTRUCTION RESEARCH INSTITUTE, 12/2007~present

Adjunct Assistant Researcher, Information Center of Construction Industry 01/2009~present

- Collecting and analyzing data for the project, *Effect Analysis of Economic Cooperation Framework Agreement (ECFA) in Taiwan’s Construction Industry*.

Assistant Research Engineer, Information Center of Construction Industry 12/2007~06/2008

- Creating a Business Model for the project, *Establish the Association to Assist Taiwan’s Construction Companies to Expand the International Market*.
- Performing feasibility analysis, substitute method analysis, and financial analysis for the project, *Development of Taiwan Sewerage System, 2009~2014*.

PUBLIC CONSTRUCTION COMMISSION, EXECUTIVE YUAN, 07/2006~11/2007

Substitute Service, Department of Construction Management

Resume

- Performing collation, analysis and reviewing the budget execution performance of government agencies.

PUBLICATIONS

Papers in progress

1. **Shu-Chien Hsu** and Qingbin Cui (2011), "Project Complexity under Carbon Regulation and Trading," International Journal of Project Management, preparing. **(SSCI)**
2. **Shu-Chien Hsu** and Qingbin Cui (2011), "Ratio Based Analysis for Technology Selection in Renovation Project Planning," Automation in Construction, preparing. **(SCI/EI)**
3. Jieh-Haur Chen, **Shu-Chien Hsu**, Yung-Hong Luo, and Miroslaw J. Skibniewski (2011), "A KNN-Based Knowledge Management System for Construction Material Suppliers Risk Mitigation," Automation in Construction, under review. **(SCI/EI)**

Referred Papers

1. **Shu-Chien Hsu** and Qingbin Cui (2011), "Project Complexity under Carbon Regulation and Trading," Project Perspectives Journal, Vol. 33, pp.78-83.
2. Qingbin Cui and **Shu-Chien Hsu** (2010), "Project Complexity under Carbon Regulation and Trading," Proceeding of CIB World Congress, May 2010, Salford, United Kingdom, TG-62, pp. 1-15. **(EI)**
3. **Shu-Chien Hsu** and Qingbin Cui (2010), "A Decision Model for Technology Selection in Renovation Project Planning," Proceedings of the 2010 Construction Research Congress, pp. 1234-1244. **(EI)**
4. Jieh-Haur Chen, C. Y. Kuo, **S. C. Hsu**, J. C. Li (2010), "A Preliminary Study toward Mechanism of Contractor Selection for Public Sector," Journal of Chinese Institute of Civil and Hydraulic Engineering Vol. 22(1), March, pp. 113-123. **(EI)**
5. Jieh-Haur Chen and **S. C. Hsu** (2008), "Quantifying Impact Factors of Corporate Financing: Engineering Consulting Firms," Journal of Management in Engineering, ASCE, April, Vol. 24(2), pp. 96-104. **(SCI/EI)**
6. Jieh-Haur Chen and **S. C. Hsu** (2007), "Hybrid ANN-CBR Model for Disputed Change Orders in Construction Projects," Automation in Construction, Elsevier, Vol. 17(1), November, pp. 56-64. **(SCI/EI)**
7. Jieh-Haur Chen and **S. C. Hsu** (2005), "Early Warning System for Severe Change Orders," Proceedings of the 2005 ASCE International Conference on Computing in Civil Engineering, Cancun, Mexico, pp.1913-1924. **(EI)**
8. Jieh-Haur Chen, Chung-Fah Huang, and **S. C. Hsu** (2005), "Measuring and Comparing Profit Patterns of Traditional Construction Companies Extending to High-Tech Construction," Proceedings of the 2005 KICEM International Conference on Construction Engineering and Management, Seoul, Korea.