

CONTACT

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Art E. Favre Endowed Chair

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EDUCATION

9.1992 8.1995 Ph.D. University of Alberta, Canada
9.1982 5.1985 M.Sc. Wuhan University, China
9.1978 8.1982 B.Sc. Wuhan University, China

EMPLOYMENT

8.2014-present	Art E. Favre Endowed Chair	Louisiana State University (LSU)
8.2011 8.2014	Holland Professor	University of Florida
8.2008 8.2011	Professor and Chair	University of Nebraska Lincoln (UNL)
4.2007 8.2008	Professor and Director	Illinois Institute of Technology, Chicago
4.2001 4.2007	Assoc. Professor (Tenured)	Illinois Institute of Technology
8.1999 4.2001	Assoc. Professor (Tenure track)	Illinois Institute of Technology
1.1999 8.1999	Associate Professor	City University of Hong Kong
8.1995 12.1998	Assistant Professor	City University of Hong Kong
9.1992 8.1995	Research Associate	University of Alberta, Canada.
5.1985 8.1992	Lecturer	Wuhan University, China.

FUNDED RESEARCH PROJECTS (IN CHRONOLOGICAL ORDER)

(2 years)

2. Rinker Ph.D. Research Fellowship

Role: PI (open competition for a fully funded PhD student for 4 years)
Amount: \$128,000 (\$32,000 per year for four years)
Source: Rinker Foundation and College of Design, Construction and Planning
Period: 9/1/2012 8/30/2016 (4 years)

3. Energy Efficiency in Buildings

Role: PI (new faculty startup support)
Amount: \$100,000 (\$20,000 per year for 5 years)
Source: University of Florida
Period: 9/1/2011 8/30/2016 (5 years)

4. Building Energy Efficient Homes for America (BeeHa), Building America Program (BA)

Role: Team Lead and PI with Co-PIs from UNL, University of Florida, and 15 industry partners
Amount: \$660,345
Source: US Department of Energy (US DOE)
Period: 9/1/2010 8/30/2012

5. State Energy Sector Partnership and Training Grant

Role: co-PI with the Nebraska Department of Labor (NDOL)
Amount: \$4,830,000
Source: US Department of Labor (US DOL)
Period: 9/1/2010 8/30/2012

6. Advanced Decentralized Water/Energy Network Design for Sustainable Infrastructure

Role: PI with eight co-PIs from four academic units at UNL
Amount: \$1,250,000
Source: US Environmental Protection Agency (US EPA)
Period: 7/1/2009 6/31/2014

7. Highway Work Zone Safety Audit Guidelines Development and Training

Role: PI with co-PIs from the Illinois Department of Transportation (IDOT) and Utah LTAP
Amount: \$1,032,617 (\$750,000 from FHWA and \$282,618 from the participants)
Source: Federal Highway Administration (FHWA)
Period: 9/1/2006 8/30/2010

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35. Arditi, D., M.A. Ayrancioglu, and **J. Shi**
ASCE, Journal of Transportation Engineering. Vol. 130(6), 725-732.
34. **Shi, J.** (2004) Clustering technique for evaluating and validating neural network performance
ASCE Journal of Computing in Civil Engineering, vol. 16(2). Discussion by M. Marzouk and
O. Moselhi. Closure by J. Shi. 183-184.
33. **Shi, J.**
ASCE Journal of Construction Engineering and Management,

15. Shi, J. *Construction Management and Economics*. Vol. 17(4), 463-471.
14. Ortigao, J. A. R. and J. Shi (1998). "Predicting settlements during tunnelling through neural networks." *Tunnels & Tunnelling International*. Vol. 30(12), 30-31.
13. Shi, J., J.A.R. Ortigao and J. Bai (1998) *ASCE Journal of Geotechnical and Geoenvironmental Engineering*. Vol. 124(5), 389-395.
12. Shi, J. -process models for simulating
Construction Management and Economics. Vol. 16(4), 489-498.
11. Shi, J. -moving
Journal of Computer-Aided Civil and Infrastructure Engineering, vol. 13(2), 121-130.
10. Shi, J. -
ASCE Journal of Construction Engineering and Management. Vol. 123(1), 26-33.
9. Shi, J. *Intelligent Engineering Systems through Artificial neural networks*. vol. 6. ASME Press Series. 815-820.
8. Shi, J. and S. M. AbouRizk. (1995). "An optimization method for simulating large complex systems." *Engineering Optimization*. Vol. 25(3), 213-229.
7. AbouRizk, S. and Shi, J. (1994). "Automated construction simulation optimization." *ASCE Journal of Construction Engineering and Management*. Vol. 120(2), 374-385.
6. Shi, J., Bai J. and Xiao H. (1993), "State of the art in construction expert systems." *Hydroelectric Techniques*. 1993. In Chinese.
5. Shi, J. (1992). "A method combined mathematical analysis and simulation for studying the serial-parallel queuing network systems." *Systems Engineering--Theory & Practice*. Vol. 6. 38-45. In Chinese.
4. Shi, J. (1990). "An heuristic method for leveling multiple resources with controlled activities." *Systems Engineering--Theory & Practice*, vol. 2, 21-25. In Chinese.
3. Shi, J. and Xiao H. (1990). "Risk analysis and decision making under multi-objectives on the standard of river diversion during construction." *Journal of Hydraulic Engineering*. Vol. 11, 66-71. In Chinese.
2. Shi, J. (1989). "The Optimal Rate of Breakdown of Construction Equipment." *Journal of the WUHEE*. Vol. 5, 166-174. In Chinese.
1. Shi, J., Yuang G. and Zuo J. (1987). "Computer Simulation Study on the Selection of Construction Equipment for Earth-fill Dams." *Journal of Hydroelectric Engineering*. Vol. 3, 62-73. In Chinese.

II. Papers Published In Refereed Conference Proceedings (incomplete)

- Alahmad, M., Wisam Nader, Adam Brumbaugh, Yong Cho, Song Ci, Hamid Sharif, **Jonathan Shi**,
IEEE GCC Conference and Exhibition, pp. 1-4, Dubai, United Arab Emirates, February 19-22, 2011.
- Alahmad, M., Wisam Nader, Jill Neal, **Jonathan Shi**, Chuck Berryman, Y. Cho, Siu-Kit Lau, H. Li,
Real Time Power Monitoring &
Integration with BIM ceedings of IECON 2010 - 36th Annual Conference of IEEE
Industrial Electronic Society, pp. 2454-2458. Glendale, Arizona, November 7-10, 2010.
- Hu, M., Zhang, T.C., Stansbury, J., Dahab, M., **Shi, J.**, Neal, J., Alahmad, M., Berryman, C., Li, H., Schwer, A., and Shen, Z. (2011). Treatment of greywater with shredded-tire biofilters and

Zhang, H., Tam, C. M., **Shi, J.** simulation environment for activity-based construction simulation s *Proceedings of the 2000 IASTED International Conference: Applied Simulation and Modeling*. Banff, Canada. 51-55.

Shi, J. Object-

III. Research Reports (incomplete)

Li, Z. and J. Shi

IV. Courses Taught at IIT (Associate and Full Professor)

- CAE471 Construction Planning and Scheduling
- CAE571 Advanced Construction Scheduling and Control
- CAE572 Construction Cost Accounting and Control
- CAE573 Computer Applications in Construction
- CAE593 Graduate Seminar Series

V. Courses Taught at CityU (Assistant/Associate Professor)

- BC6592: Construction Management I
- BC7306: Construction Management II
- BC5205: Technical Communication
- BC6100: Decision-making and Operations Research for Engineering Management
- BC6591: Development and Construction Economics
- BC1603: Production Management
- BC9000: Postgraduate Seminars in Building and Construction
- BC1604: Advanced topics in Construction Management

INVITED SEMINARS AND LECTURES

1st International Symposium on Hydraulic Engineering Simulation and Safety. Keynote address: Data Big or Small an Ultimate Research Challenge. Tianjin University, June 10, 2014.

Qinghua University, Resilient and Sustainable Complex Infrastructural Systems, June 30, 2014.

5th University of Florida Symposiums in Science and Engineering. Energy Efficiency in

Topic: *IT Applications in the US Construction Industry*

Virginia Tech, March 22, 2005

Topic: *Integrated Simulation Technology for Planning Building Construction*

The Manufacturers ¶ \$ Q Q X D O & R Q I H U H Q F H t o D e Q I G , 2 0 0 6 L E L W

Topic: *Computer Simulation for Planning Plant Maintenance*

Purdue University, November 14, 1999

Topic: *Activity-based Construction Modeling and Simulation*

Florida State University, June 14, 1998

Topic: *Modeling and Simulation of Construction Operations*

University of Buffalo, May 3, 1998

Topic: *An Automated Simulation System for Construction*

The Hong Kong University of Science and technology, April 17 1998

Topic: Automated Simulation Systems for Construction Planning

Institute of Quarrying, Hong Kong, September 14, 1997

Topic: *Computer-aided Quarrying and Crushing Analyses*

HKIE: Hong Kong Institution of Engineers, Materials Division, April 8, 1997

Topic: *Case study-based computer applications for improving construction planning*

Brazil: (Sponsored by the National Research Council of Brazil, June 8 - 16, 1996)

Federal University of Rio de Janeiro

Pontifical Catholic University

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Shanghai Jiaoton University, Tongji University

Wuhan Urban Construction Institute

Wuhan University of Science and Technology

PROFESSIONAL SERVICE

I. Membership

Professional Engineer, Hong Kong

Member, Hong Kong Institution of Engineers (HKIE)

Member, American Society of Civil Engineers (ASCE)

Member, Construction Management Association of America (CMAA)

IE)

Organizing Committee, Implementing IT to Obtain a Competitive Advantage in the 21st Century (INCITE 2000), January 17-18, 2000. Hong Kong.

Committee member, Construction Research Council, ASCE

Committee member, Computing in Construction, ASCE

Committee member, Chicago Chapter, CMAA

Panelist, National Science Foundation (NSF)

Reviewer, National Science Foundation (NSF)

Editorial Board, Journal of Construction Research

Editorial Board, The International Journal of Construction Management

Peer Reviewer, Journal of Construction Engineering and Management, ASCE

Peer Reviewer, Journal of Computing in Civil Engineering, ASCE

Peer Reviewer, Construction Management and Economics

Peer Reviewer, International Journal of Construction Automation

Peer Reviewer, Journal of Computer-Aided Civil and Infrastructure Engineering

Peer Reviewer, Journal of Construction Research

SCHOLARSHIPS, AWARDS AND HONORS

Nov. 6, 2006. Featured Article on the Front page of SouthTown Daily News P See the attached
copy of the article.

May 12, 2007: IIT Day on Capital Hill a showcase of the major research activities at the university to the Illinois
Congressional Delegation and Staff at the U.S. Congressional Building in Washington D.C. See the
attached poster.

July 2003: Summer Visiting Fellowship. This fellowship was funded by the Department of Building and Real Estate
of the Hong Kong Polytechnic University. The recipient was selected from a list of solicited well qualified
candidates based on qualifications and submitted proposals.

1999-2004: Who's Who in the World, Who in Industry and Finance, in Science and Engineering.

1992-1994: University of Alberta Ph.D. Scholarship
into a Ph.D. program. Offered for a one-year term with a possible second year renewal pending

May 1994: