

Deepak K. Sharma, Ph.D.

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Education

Ph.D., University of Maryland, College Park, 2012.

Major: Project Management

M.S., The University of Alabama, 2008.

Major: Civil Engineering (Construction Management)

B.E., Gujarat University (Geotech Engineering Elective), 1999.

Major: Civil Engineering

Professional Positions

Academic - Faculty

Visiting Assistant Professor, University of Baltimore. (2012 - Present).

Graduate Research and Teaching Assistant, Department of Civil and Environmental Engineering, University of Maryland. (2008 - 2012).

Graduate Teaching and Research Assistant, Department of Civil, Construction and Environmental Engineering, University of Alabama. (2007 - 2008).

Full-time Faculty Member, Civil Engineering Department, Nirma University. (2000 - 2006).

Visiting Faculty, Civil Engineering Department, Nirma University. (1999 - 2000).

Professional

Voluntary Researcher, Sustainable Infrastructure Group, University of Maryland. (2012).

Project Leader, Alabama Department of Transportation Funded Project at University of Baltimore. (2008 - 2010).

Intern Engineering at Robins and Morton, Birmingham (AL), Intern at construction and renovation project of a hospital in Lawton, Oklahoma. (2008).

Assistant to Vice President for Construction, UA Facilities Planning Department of the University of Alabama. (2007).

Member of Material Testing Consultancy Team, Civil Engineering Department, Nirma University. (2002 - 2006).

Trainee, Akshar Infrastructure. (1995 - 1996).

Professional Memberships

American Society for Civil Engineers (Present).

Construction Research Council (Present).

Indian Geotechnical Society (Present).

Indian Society for Technical Education (Present).

Institute For Operations Research and Management Sciences (Present).

Project Management Institute (Present).

Awards and Honors

Recipient of Bechtel Fellowship. (2011).

The Best Civil Engineering PhD Award. (2011).

International Teaching Assistant Fellowship. University of Maryland. (2010).

Distinguished Teaching Assistant Award. University of Maryland. (2009).

Inducted as Member of Honor Society - Chi Epsilon. (2008).

Secured first place at Gujarat University in Geotech elective group and awarded gold medal. (1999).

RESEARCH

Intellectual Contributions

Book Chapters

Arsham, H., Bardossy, G., & Sharma, D. K. (2014). Essentials of Linear Programming for Managers: From System

of Inequalities to Software Implementation. *IGI Global publisher. Chapter 7*(First Edition), 96-127.

Refereed Journal Articles

Sharma, D. K., Cui, Q., Chen, L., & Lindly, J. K. (2010). Balancing Private and Public Interests in PPP Contracts Through Equity Capital Structure Optimization. *Journal of the Transportation Research Board. 2151/2010*(DOI 10.3141/2151-08), 60-66.

Cui, Q., Johnson, P. W., Sharma, D. K., & Bayraktar, M. E. (2010). Determinants of Industry Acceptance For Highway Contracts. *Journal of Infrastructure Systems. Vol.16*(No.1), 93-101.

Conference Proceedings

Sharma, D. K., & Cui, Q. (2012). Model for Availability Payments in Public Private Partnership Projects. *Construction Research Congress 2012*.

Sharma, D. K., & Cui, Q. (2012). Subsidy Allocation Mechanism for Successful Implementation of Green Contracting Strategies. *The 20th Annual Conference of the International Group for Lean Construction San Diego*.

Cui, Q., Sharma, D. K., Farajian, M., Lindly, J. K., & Jilla, R. (2011). Feasibility Study Guidelines For Public Private Partnership Procurement on Highway Projects. *90th TRB Annual Conference*.

Sharma, D. K., & Cui, Q. (2009). Structuring Equity Investment in PPP Projects. *Engineering Project Organizations Conference*.

Sharma, D. K., Cui, Q., Baldwin, R., & Arkle, D. (2008). Big or Small, Does Warranty Contracting Warrant Equal Opportunity to All?. *1st International Conference on Transportation Construction Management*.

Technical Report

Cui, Q., Sharma, D. K., Farajian, M., & Perez, M. (2010). Feasibility Study Guidelines for Public Private Partnership Projects. *University of Maryland and University Transportation Center at Alabama. Report ALDOT 930-722R*.

Presentations

Sharma, D. K. "Application of DEA Model to PPP Projects for Improving Value for Money Assessment," San Francisco. (2014).

Sharma, D. K. "A Hybrid Model for Sustaining Long Term Infrastructure Projects," Minneapolis. (2013).

Sharma, D. K. "Innovative Billing Mechanism for Reducing Energy Consumption," Washington DC. (2012).

Sharma, D. K. "Design of Availability Payments for Public Private Partnerships," Washington, DC. (2010).

Sharma, D. K. "Balancing Private And Public Interests In PPP Contracts Through Equity Capital Structure Optimization," Washington, DC. (2010).

Sharma, D. K. "Equity Allocation In PPP Projects Under Uncertainties," Washington, DC. (2009).

Sharma, D. K. "Review of Value For Money Assessment on PPP Projects," Montgomery (AL). (2009).

Contracts, Grants and Sponsored Research

Grants

Sharma, Deepak K.(Supporting), "Feasibility Study Guideline for Public Private Partnership Projects: Volume I & II" Sponsored by Alabama Department of Transportation (ALDOT), State, (Present).

Sharma, Deepak K.(Other), "Acquisition Research at the Naval Postgraduate School" Sponsored by Naval Postgraduate School, Federal, (2012 - 2013).

Intellectual Contributions in Submission

Sharma, D. K., & Cui, Q. Dynamic Programming Approach for Payment Optimization in Public Private Partnerships. *Journal of Infrastructure Engineering*.

Research in Progress

"Billing Mechanism for Reducing Electricity Consumption" (On-Going)

"Game Theory Based Lean and Green Strategies for Achieving Global Sustainability"

"Hybrid Models for Long Term Contracts" (On-Going)

Professional Service

Reviewer, Conference Paper, Construction Review Congress 2012.

Reviewer, Conference Paper, Construction Review Congress 2014.

Reviewer, Conference Paper, International Group For Lean Construction (IGLC 2012).

Reviewer, Journal Article, Journal of Energy Engineering, American Society for Civil Engineers.

Public Service

Personal Interview with David Mildenberg. (2013).

Development Activities

Conference Attendance, "ARTBA Annual P3 Conference,"

Workshop, "Grant Writing Workshop," University of Baltimore. (March 2013 - March 2013).