JUI-SHENG CHOU, Ph.D., P.E.

Distinguished Professor
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Education
- Ph.D. (2005), The University of Texas at Austin, USA
- M.S. (1997), National Taiwan University, Taiwan
- B.S. (1995), National Taiwan University, Taiwan

Research Interests
Dr. Chou's main teaching and research interests are engineering issues related to data analytics & intelligence, engineering technology & project management, decision analysis, and risk reduction. In particular, his Project intelligence & Management (PiM) Research Lab mainly applies professional skills & techniques of artificial intelligence & machine learning (AI&ML), information technology (IT), multivariate statistics (MS), structural equation modeling (SEM), and Monte Carlo simulation (MCS) to the following research areas.
- 【AI&ML&IT】Data Mining in Civil & Hydraulic Engineering
- 【MS/SEM】Project Quantitative Analytics for Sustainable Engineering and the Built Environment
- 【MCS】Decision, Risk, Failure Analysis & Disaster Management

Academic & Industrial Experience
- Professor (2012-2018), Department of Civil and Construction Engineering, NTUST
- Guest Editor (2016-2018), Automation in Construction, Elsevier B.V.
- Technical Consultant (2015-2018), EnKeYu Co., Ltd.
- Eminent Scholar (2015-2016), Construction Management | Del E. Webb School of Construction, School of Sustainable Engineering and the Built Environment, Arizona State University
- Guest Editor (2015-2016), Sustainable Cities and Society, Elsevier B.V.
- Visiting Fellow (Construction Management) (2015-2016), Research Institute for Sustainable Urban Development, The Hong Kong Polytechnic University
- Research Fellow (2013-2014), Taiwan Construction Research Institute
- Associate Professor (2009-2012), Department of Civil and Construction Engineering, NTUST
- Assistant Professor (2005-2009), Department of Civil and Construction Engineering, NTUST / Department of Business Administration, National Chung Cheng University
- Visiting Professor (2009), Department of Civil, Architectural & Environmental Engineering, The University of Texas at Austin
- Graduate Research Assistant (2002-2005), The University of Texas at Austin - CEPM / Center for Transportation Research
- Professional Engineer (1999-2002), MAA Consulting Co. / SINOTECH / HWA HSIN Insurance Adjusters & Surveyors Co.

Honors and Awards
As a devoted researcher and educator, he has cultivated more than 100 graduate talents. He is a recipient of numerous awards, including MOST Outstanding Research Award, Outstanding Young Scholar Research Projects twice from MOST, R.O.C., Construction Management Journal Paper of The Year twice, Best Papers multiple times in reputable international/domestic conferences, Innovation and Entrepreneurship Awards, Excellent Faculty Award from MOE, R.O.C., Outstanding/Excellent Research Awards three times, Excellent Industry-University Collaboration Faculty Award at Taiwan Tech, Elsevier Outstanding Contribution in Reviewing and Most Cited Articles at some time in the past. Additionally, he was awarded RISUD Visiting Fellowship (Construction Management) by the Kwong Wah Education Foundation and Del E. Webb Eminent Scholar at the Del E. Webb School of Construction as invited by The Hong Kong Polytechnic University and Arizona State University, respectively.

Publications
He is the author or co-author of over 300 journal articles, book chapters, conference papers, and technical reports. Among these publications, many research papers were published in more than 30 prestigious journals. Detailed bibliography can be referred in http://140.118.5.28/

Research Grant and Funding
He is PI and co-PI of 39 research projects. Below are selected projects
- PI, Applying Big Data Analytics to Identify Energy Consumption Patterns and Operational Performance of IoT-based Heating, Ventilation and Air Conditioning Facilities and Developing an Intelligent Cloud-based Forecasting Management Platform, 2017.08-2020.07
- PI, Developing passenger satisfaction index system to efficiently evaluate operations performance and deploy sustainable strategy based on the high-speed rail riders characteristics and influential factors (Outstanding Young Scholar Research Project Award), 2015.08-2018.10
- PI, Smart Grid Big Data Analytics for Identifying Residential Power Consumption Patterns to Optimize Electricity Usage based on a Web-based Energy-Saving Decision Support System, 2014.08-2017.10

Service Activities
- He holds registered professional engineer licenses and serves on numerous professional committees. He has provided consulting services to a number of private and public engineering sectors.
- He is an international committee and organizing committee, international conference chair of 35 conferences
- He is an editorial board member of 10 international journals and a guest editor of 2 international journals