

COTA Board of Directors Candidate



Wei (David) Fan, Ph.D., P.E.

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Qualifications/Background Information:

Dr. Wei (David) Fan currently serves as an associate professor in the Department of Civil and Environmental Engineering at The University of North Carolina at Charlotte (UNC Charlotte). He is the Director of the USDOT Tier I University Transportation Center for Advanced Multimodal Mobility Solutions and Education (CAMMSE). Dr. Fan holds a Ph.D. (May 2004) in Civil Engineering – Transportation from the University of Texas at Austin (Hook 'em Horns!). He was a Senior Analytical Optimization Software Developer for the R&D Department at SAS Institute Inc. located in Cary, North Carolina from June 2004 – August 2006. Prior to joining UNC Charlotte, he was an assistant (and later an associate) professor of Civil Engineering Department at The University of Texas at Tyler (UT Tyler) from August 2006 to August 2013.

Dr. Fan's primary research interests include operations research, transportation network modeling & optimization, multimodal transportation systems planning and operations, traffic operations and simulation, transportation safety and crash analysis, intelligent transportation systems (ITS), and computer software development. Dr. Fan serves as an associate editor of IEEE Transactions – Intelligent Transportation Systems while also serving as a member of three other transportation journal editorial boards. Dr. Fan also serves as a member on the National Science Foundation (NSF) review panels, two National Cooperative Highway Research Program (NCHRP) panels, one Transit Cooperative Research Program (TCRP) panel, and three American Society of Civil Engineers (ASCE) Committees (on the Connected & Autonomous Vehicles Impacts, Public Transport, and Rail Transportation), as well as two Transportation Research Board (TRB) committees. He has been working as an active ad hoc reviewer for more than 20 prestigious journals as well as the national Highway Capacity Manual (HCM) (2010 version). He was selected by the students as the Best Civil Engineering Professor of the Year in 2007 at The University of Texas at Tyler and was a proud ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Fellow in 2007.

Dr. Fan is involved in many sponsored projects (over 10 million dollars in funding), having been principal or co-principal investigator on many research studies for the U. S. Department of Transportation (USDOT), Federal Highway Administration (FHWA), National Cooperative Highway Research Program (NCHRP), SHRP2 Education Connection, Texas Department of Transportation (TxDOT) and North Carolina Department of Transportation (NCDOT). He had published more than 100 journal articles, proceeding papers and technical reports on transportation network modeling, multimodal transportation systems planning and operations, traffic operations and simulations, traffic safety and crash analysis, and operations research applications in transportation. He is a registered professional engineer in Texas.

Envisioned Commitments/Proposed Activities:

1. Enhance the collaborations within and outside of COTA communities.
2. Promote the participation of world-wide transportation professionals and students in COTA activities.
3. Increase the COTA visibility and footprint at prestigious transportation conferences, workshops, symposiums, and forums world-wide.
4. Contribute to the development of the COTA Academic Affairs Committee and Technical Committee.

Endorsements:

Dr. Yu Zhang, President, COTA, University of South Florida.
Dr. Yin Hai Wang, COTA Member, University of Washington.
Dr. Guohui Zhang, BOD Member, COTA, University of Hawai'i at Manoa.
Dr. Haizhong Wang, BOD Member, COTA, Oregon State University.
Dr. Xiaokun Wang, BOD Member, COTA, Rensselaer Polytechnic Institute.