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Wuping Xin, Ph.D.

Wuping Xin is the Chief Technology Officer at Caliper Corporation, where he leads technology development at the intersection of traffic engineering, artificial intelligence, algorithms, and modern software architecture. His work spans adaptive traffic control, signal optimization, traffic modeling and simulation, intelligent transportation systems, system integration, and scalable digital twin platforms. Dr. Xin is pioneering the use of agentic AI in transportation by developing systems that integrate large language models with transportation modeling and simulation. These systems enable autonomous reasoning, decision-making, and workflow orchestration for complex traffic engineering tasks, opening new possibilities for how AI can augment transportation planning and operations. He serves on ISO Technical Committee 204 on Intelligent Transport Systems and has previously served on ISO SC22/WG21/INCITS PL22.16, the C++ Programming Language Committee. He is a former co-chair of the TRB ACP25 Signal Timing Subcommittee and a voting member of the NTCIP 1202/1211 working group, where he has played an active role in the development of NTCIP standards related to modern traffic signal controllers. Dr. Xin is a licensed Professional Engineer in Electrical and Computer Engineering, with active registrations in New York, New Jersey, Iowa, Texas, Washington, D.C., Florida, Virginia, North Carolina, Utah, and California. He also teaches graduate courses in traffic signal control and modeling at New York University as an Adjunct faculty member.