Dr. Balakirsky is the project manager for the Knowledge Driven Planning and Modeling Project at the National Institute of Standards and Technology. His current research focuses on knowledge representations, robotic simulation, and robotic performance evaluation. Dr. Balakirsky is the principal architect for the open source Unified System for Automation and Robot Simulation (USARSim) project. He is also the chair of the industrial subgroup of the IEEE Robotics and Automation Society’s (RAS) Ontologies for Robotics and Automation Working Group, the IEEE RAS Competition’s Chair, and a past member of the executive committee of the RoboCup Federation. He received his doctor of engineering degree from the University of Bremen, and his Master and Bachelor of Science from the University of Maryland.