SCOPE-GCTC 2018 Workshop Overview

The 3rd International Workshop on Science of Smart City Operations and Platforms Engineering, in partnership with the Global City Teams Challenge (SCOPE-GCTC 2018), is being held in Porto, Portugal, on April 10, 2018. SCOPE-GCTC 2018 is part of the Cyber-Physical Systems Week (CPSWeek).

Smart cities are emerging as a priority for Cyber-Physical Systems (CPS) research and development across the world. Inefficient and aging critical infrastructure, developing sustainable and alternative energy sources, improved water quality, food security, automated and improved transportation, heath and wellness of communities are all examples of areas which require immediate attention. The problems of ‘closing-the-loop’ in all these application areas are further compounded due to the spatial and temporal scales of operation, heterogeneity, and complexity of the underlying physical systems, and their interaction with socio-economic behaviors. There is an urgent need for extensible, resilient, and flexible platforms and architectures for challenges in Smart Cities.

The SCOPE workshop focuses on novel approaches that are based on open, extensible platforms that arise from new partnerships between cities, industry, and academia, with an emphasis on one or more of the challenges described above. We seek to cover platforms and theory for modeling, simulation, verification, and control for Smart Cities, novel technologies and their socio-economic implications, as well as examine case studies of existing smart cities from all around the world.