

## *Abstract*

### **Sustainable Cities and Urban Climate Adaptation**

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Urban planners need to plan and create more sustainable and resilient communities, make a plan for climate adaptation, preserve and create green space, adopt green building policies, engage the community in climate change planning process, approach climate change planning on a regional level. Urbanization driven by social and economic factors creates new risks and uncertainties of the intensively populated cities. Urban climate is facing many challenges, such as urban heat island, air pollution and climate change extreme and unpredicted weather storms, social and economic impacts, freshwater and food insecurity etc. The effects of climate change is starting to show, with rising temperatures, increased precipitation and sea-level rise, that becomes risk of the landscape of cities. These urban climate change effects need to be tackled by urban climate adaptation services. The methodology approach in this scientific paper focuses on defining the measures for risk management and vulnerability of the urban climate, overcoming urban adaptive capacity aspects and creating urban climate adaptation planning that will be factor for sustainable development in the cities. The expected outcome results in this scientific paper is creating urban climate mitigation and adaptation planning that will focus on the complexity of the cities: energy supply, transport, buildings, energy demand, low-carbon technologies. Targets for urban mitigation of carbon dioxide emissions are now urgent and imply reconfiguration of urban energy systems, transport and the built environment. Urban adaptation of cities requires integrated thinking that encompasses a whole range of urban functions.