Special Issue

Microclimate Development in Urban Spaces

Message from the Guest Editors

Dear colleagues, The current level of population growth, together with global or regional warming, has caused important changes in the different land covers and uses and a considerable increase in temperatures, especially in urban spaces. Urban areas are more vulnerable to climate change due to the additive effect of the Urban Heat Island (UHI) phenomenon that makes cities warmer than surrounding rural sites. Added to this circumstance is that atmospheric emissions and extreme climate phenomena (heat waves, extreme temperatures) have increased significantly, while at the same time they are affecting environmental quality and impacting the health of the population. Urban forests were considered the important part of urban eco-system, which can reduce urban high temperatures and heatwaves through shading and evapotranspiration. It is estimated that, in the next 25 years, 70% of the world's population will be located in these areas, which is why their analysis and study is of great importance in order to establish measures that will improve the resilience of these areas against the effects of the climate change.

Guest Editors

Dr. David Hidalgo García

Department of Graphic Expression in Architecture and Engineering, Universidad de Granada, 18001 Granada, Spain

Dr. Dimitra Founda

Institute for Environmental Research and Sustainable Development, National Observatory of Athens, 11810 Athens, Greece

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Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

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Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

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