

11th International

Conference on Urban Climate



28 Aug - 1 Sept 2023
UNSW Sydney

THURSDAY 31 AUGUST 2023 POSTER LISTING

Poster no	Presenter name	Poster title
Climate-conscious design and sustainable development: Climate-sensitive urban design and planning		
01	Charbel ABOUD	Cool pavements for adapting Paris to climate change
02	Mohammad Abousaeidi	Developing a decision-making tool for utilizing low-cost retrofit techniques to reduce heat gain in social housing
03	Maassoumeh Barghchi	Comparing the microclimate conditions, cooling benefits and thermal comfort performance of different public open space systems and configurations in summer conditions under current and future climate scenarios
04	Rémy Claverie	PROOF : A collaborative project to assess the multi-scale benefits of biosolar roofs
05	Jelena Dunjić	Greening the cities – evaluating micro-scale thermal impacts of green infrastructure in urban environments
06	Liyang Fan	Effects of Heat Countermeasures on Outdoor Thermal Environment of Children's Height Level
07	JIE FENG	Recent Developments of Super Cool Materials
08	Sagda Gamaledldin	Exploring The Role of Built Environment's Urban Lingering Factor in Socio-Climate-Informed Decision-Making Process of Urban Open Spaces
09	Kosuke Kittaka	Study on thermal environment planning for Osaka Expo site
10	Deepak Kumar	Urban Blue-Green Space Management with Geospatial Technology for Sustainable Development
11	Kelvin Li	Microclimate modelling for upstream urban planning and design
12	Shuang Liu	Modeling the impacts of reflective paving on building façade temperatures for typical residential neighborhoods in Phoenix Arizona
13	Mengrong Lu	Quantifying cooling benefits of cool roofs and walls applied in building clusters by scaled outdoor experiments
14	Kaoru Matsuo	Study on the impact of green space placement on heat and wind environment and its mapping using meso-scale model WRF
15	Surabhi Mehrotra	Building resilience to Heat stress vulnerabilities: Context based climate policy pathways for Indian Cities
16	Amirabdollah Nouri	Environmental Functions of Green Wall in Urban Sustainable Planning and Development
17	Gloria Pignatta	Investigating pre-cooling benefits through varying building envelope optical properties: Enhancing energy efficiency and thermal comfort in the Australian residential sector
18	Guglielmo Ricciardi	Integrated framework for climate mitigation and adaptation to support urban design practices
19	Pamela Smith	Climate sensitive planning. Opportunities from the study of local climatic zones, Santiago as a case study.
20	Jeong-Min Son	Classification of urban forest types and their improvement strategies based on the atmospheric environment characteristics
21	Ayu Sukma Adelia	A city-scale urban ventilation mapping tool via a spatial clustering statistical test
22	Mingqiang Yin	An review about theof urban ventilation corridor research (UVCs) worldwide from 1981-2022
23	YunJie Zeng	Study on the Optimization of Urban Living Street Space Design Based on Microclimate Evaluation -- Taking Zhengzhou as an Example
24	Mushu Zhao	Considering urban heat in transit-oriented development planning: A perspective of station-level heat exposure in New York city subway
Integrated assessments of urban climate: Climate risks and vulnerabilities in urban systems		
25	Ryota Karube	Investigating climate-appropriate heat mitigation strategies
26	Eduardo Kruger	A review of urban climate studies in Brazil over the last two decades
Integrated assessments of urban climate: Inter-scale interaction of urban phenomena and climate		
27	Ben Crawford	Characterizing roof albedo for cool roof strategies to mitigate urban heat
28	Rui Ito	Characteristics in summertime extremely high temperature in the metropolitan area of Japan with global warming
29	Chandana Mitra	Investigating the Impacts of Urbanization on Micro-Hydroclimatology on Urban Agglomerations Vs Individual Cities
30	Young-San Park	Spatial variation of the occurrence of heatwave and tropical night in South Korea
31	Chenghao Wang	Modeling urban climates as complex dynamic systems
Special sessions: Nature-based solutions for sustainable, resilient and livable cities		
32	Vidya Anderson	Technological opportunities for sensing of nature-based solutions: A state-of-the-art review
33	Tobi Eniolu Morakinyo	The potential micro-climatic of a new coastal city in Lagos, Nigeria
34	Jiawei Fu	Optimizing Street Vegetation Arrangement in Townsville, Australia: A Nature-Based Solution for Mitigating Urban Heat in a Tropical City
35	Bert Heusinkveld	Updated and downscaled European winter hardiness maps including Urban Heat Island effects for urban tree species selection
36	Huijun Mao	Design optimization for improving the cooling effect of daylighting roof spray in hot-humid areas
37	Alberto Martilli	Impact of green infrastructures on air quality and thermal comfort in an idealized neighbourhood
38	Adi Sholev	The impact of green roof on building thermal profile in Mediterranean climate
39	Xinxian Yu	Radiative cooling: a nature-based solution for urban heat island mitigation
Urban climate methods: Field campaigns, sensor and network development		
40	Arseniy Artamonov	Eddy covariance tower in Moscow
41	Kohin Hirano	Meteorological conditions in the densely built-up area of Nishi-Shinjuku in Tokyo using ground-based observations
42	Charlotte Hüser	Bochum Urban Climate and Environmental Network
43	Harro Jongen	The urban climate of Amsterdam (The Netherlands) – Results of 10 years Amsterdam Atmospheric Monitoring Supersite
44	Sin Kang Yik	Meet Singapore MaRTy (SMaRTy): Biometeorological Measurements in a Tropical Rainforest Climate
45	Simone Kotthaus	PANAME – Project synergy of atmospheric research in the Paris region
46	Pavel Krč	Utilisation of the sensor network and remote sensing measurements for validation of the LES model PALM in urban area
47	Valéry Masson	Evaluation of surface air parameters at hectometric scales simulated by MESO-NH during summer 2022 and down-scaling in Paris city.
48	Sebastian Pfautsch	A new, flexible and affordable technique to document urban air temperatures at different spatial scales
49	Matthias Roth	Comparison of urban eddy covariance carbon dioxide and heat fluxes measured at two flux towers in a Mediterranean city
50	Stevan Savic	Outdoor thermal comfort conditions in diverse urban spaces of Novi Sad (Serbia): application of Mobile Micrometeorological Carts (MMCs)
51	Kanta SUSAKI	Can compact and low-price pin photodiode become solar radiation sensor?