

11th International

Conference on Urban Climate



28 Aug - 1 Sept 2023
UNSW Sydney

FRIDAY 1 SEPTEMBER 2023 POSTER LISTING

Poster no	Presenter name	Title
Climate-conscious design and sustainable development: Building climates and energy		
01	Latifah Almulaifi	Orienting the Street Canyon or the Building Facade? An Urban District Design Dilemma
02	Inji Kenawy	Nature-based solutions as an effective way to improve users' comfort.
03	António Lopes	Micrometeorological Simulations for the Comparisons of Urban Air Temperature Between Industrial and Residential Areas of Sintra, Portugal and Uberlândia, Brazil.
04	Daisuke Narumi	Evaluation of Direct and Indirect Effects of UHI Countermeasures on Building Rooftop on Air Conditioning Energy Consumption in Osaka Prefecture, Japan
05	Zichuan Nie	Study on requirements for optimal thermal performance of adaptive opaque facades based on monthly load under five climate zones in China
06	Anir Upadhyay	Issues and opportunities to future-proof dwellings in Western Sydney, Australia
07	Shaiane Viana	Thermal performance of studios apartments in the future climate scenario: Thermal analysis of the original design and new design proposals
Special sessions: Urban data for climate modelling and sustainable cities		
08	Sachiho A. Adachi	Urban Module and Dataset of SCALE for an Urban Climate Simulation
09	Ganesh Chockalingam	Using global LCZ maps to create geospatial input data for PALM model
10	Mathew Lipson	Building-resolving urban data in next-generation convective-scale weather forecasts
11	Geonung Park	Extracting individual tree attributes with UAV-Lidar and machine learning approaches in urban area
12	Abraham Wu	TransDEM - Digital Elevation Model Generation through Geographic Data Translation
Special sessions: Urban heat mitigation: observations, numerical modelling and integrated assessment methods		
13	Yu-Cheng Chen	Evaluation of urban thermal environment differences using urban morphological pattern combined with artificial neural network
14	Xiaotian Ding	Evaluating city-scale cooling effect of mitigation strategies under a future climate scenario (RCP8.5) in center of Guangzhou, China
15	Miharu Hamazaki	Spatio-temporal structure of sea breezes based on two Doppler lidars observations and its influence on temperature and humidity near the ground during summer in coastal city Sendai, Japan
16	Marcel Ignatius	Data-driven models for understanding urban canopy air temperature distribution: a case study in the tropics
17	Taegyeong Kim	Effect of thermal environmental improvement scenario using vegetation patterns in the urban pedestrian space
18	Moshe Mandelmlch	Urban Heat Island Monitoring in a Mediterranean Coastal Metropolis; The Case of the Tel Aviv Metropolitan Area
19	Valéry Masson	Modelling of adaptation scenarios to reduce CO2 emissions and Urban Heat Island on the Aix-Marseille-Provence Metropolis area (South-East of France) on the COOL-AMmetropolis project
20	Margarita Skoryi	Climate modelling and observation for climate resilient urban planning in Ingelheim am Rhein
21	Benjamin Weeding	Establishing a baseline for thermal stress conditions – a high-resolution radiative perspective
22	Liqing Zhang	Multi-Scale Climate-Sensitive Planning Framework to Mitigate Urban Heat Island Effect: A Case Study in Singapore
Urban climate methods: New observational techniques to study urban climate		
23	Melissa Hart	When citizen science meets urban climate: The Sydney Schools Weather and Air Quality (SWAQ) monitoring network
24	Paola Maigua	The relationship between Local Climate Zone (LCZ), surface temperature (Ts) and air temperature (Ta). A case study in Quito City
25	Marzie Naserikia	The Role of Urban Land Cover, Background Climate, and Seasonality in Urban Heat
26	Kihong Park	Investigating the synergetic effect of aspect ratio and vegetation in street canyon on heat and PM10 mitigation
27	Stevan Savic	FAIRNESS project – Creation of a 'network of networks' and development of the micrometeorological knowledge share platform
28	Shogo Toshima	Comparison of Upper Wind Speed Estimated by Cloud Image Velocimetry and Cloud Radar and Development of a New Instruments for Cloud Image Velocimetry with Time Synchronization
29	Sin Kang Yik	Sensitivity Analyses of Instruments for Microclimatic Measurements to Observe Park Cool Island in Tropical Climates: A Case Study in Singapore
Urban climate methods: Urban remote sensing		
30	Majid Amanibeni	Freely accessible remote sensing data as a proxy to study air temperature variations in fine-scale urban environment
31	Anurag Bagade	The relevance of edge conditions of local climate zones in an Indian city
32	Liping Di	Quantifying contributions of urbanization and global climate change to the change in urban land surface temperature
33	Amy Dixon	Vegetation Phenology in an Urban Mediterranean Climate using PlanetScope Imagery
34	Yasuyuki Ishida	Estimation of long-wave radiation emitted in each direction using a 3D small building model by drone-based photogrammetry
35	Voogt James	Assessing the spatio-temporal behaviours of incomplete urban surface temperatures
36	Shubham Kela	Dynamics of Land transformation in the state of Gujarat, India: A two decadal study during 2001-2021 using satellite data
37	Seounghyeon Kim	Comparison of Thermal Comfort by Physical Environment in Urban Space Using UAV and Envi-met
38	Weilin Liao	Drivers of global surface urban heat island: surface property, climate background, and urban morphology
39	Mikhail Lokoshchenko	Surface Urban Heat Islands in Moscow and small towns of Moscow Region
40	António Lopes	LST and exoatmospheric albedo characterization of Lisbon's metropolitan area urban surfaces
41	Aleksei Poliukhov	Assessment of urban aerosol effects in the Moscow megacity according to satellite data and COSMO-RU model
42	Jon Shonk	Utility of Thermal Remote Sensing for Evaluation of a High-Resolution Weather Model in a City
43	Yuta Watanabe	Albedo Comparison of Multispectral Remote Sensing Satellite Imagery and On-site Rooftop Measurements Using A Portable Spectroradiometer in Tokyo, Japan
44	Xue Zhong	A fast and accurate method for predicting land surface temperatures based on UAV multimodal images via the automated machine learning
Urban climate processes: Breezes, flows and fronts		
45	Keyi Chen	Effect of building shape, height and wind direction on the flow characteristics around a high-rise building
46	Atsushi Inagaki	Evaluation of the height of the logarithmic mean wind profile over urban areas
47	Simone Kotthaus	Impact of the nocturnal low-level jet on the Paris region urban boundary layer
48	Yixun Liu	Amplitude Modulation of Velocity Fluctuations in the Atmospheric Flows over Real Urban Morphology
49	Maciel Piñero Sánchez	Numerical simulation of Low-Level Jet in the Metropolitan Region of São Paulo, Brazil
50	Kiyoshi Sasaki	Observation of wind conditions over the city using doppler scanning lidar
51	Alexander Varentsov	Simulation of particle transport in the urban boundary layer under various atmospheric and building conditions

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Urban climate processes: Turbulence		
52	Ilya Drozd	The variability of statistical characteristics of atmospheric turbulence in urban conditions
53	Irina Repina	Turbulent structure of atmospheric surface layer above heterogeneous and urbanized environment