

Call for Submissions CUPUM 2027

Sydney, Australia, 5-10 July 2027

The **20th International Conference on Computational Urban Planning and Urban Management (CUPUM)** will be held at **UNSW Sydney** on 5-10 July 2027, hosted by the City Futures Research Centre. CUPUM 2027 brings the international urban computing community to Australia for the first time, under the theme ***Future Cities in the Era of AI***. This document sets out what we are inviting, how to submit, and the dates and information needed to plan a contribution.

Updates and full conference information: <https://conference.unsw.edu.au/en/cupum-2027>.

Background on the conference series: cupum.co. Submissions are made via Oxford Abstracts at <https://app.oxfordabstracts.com/stages/82622/submitter>.

Conference Theme: Future Cities in the Era of AI

CUPUM 2027 puts artificial intelligence at the centre of the conversation about what cities can and should become. Generative models are appearing inside planning workflows. Machine learning is reshaping urban analytics. Computer vision is being deployed at scale across streetscapes. Large language models are mediating how residents interact with municipal services. The capability story is moving quickly, and so are the questions about data infrastructures, accountability, labour, equity, and the kinds of urban futures these tools quietly assume.

CUPUM 2027 invites the international computational urban planning and management community to take stock of this moment. We welcome work that builds and deploys AI inside real urban settings, work that evaluates how it performs and at what cost, and work that examines what AI is doing to planning practice, urban governance and city life. Contributions that bridge technical and critical traditions are welcome, as are contributions grounded in geographies beyond the usual Northern circuits, including the Asia-Pacific.

CUPUM Edited Book: *Future Cities in the Era of AI* is the next volume in the CUPUM book series, examining the transformative and contested role of artificial intelligence in urban planning and management. Structured around pressing and future-oriented urban challenges including urban mobility transitions, spatial justice, urban health, and wellbeing, the book will integrate a selection of peer-reviewed chapters, practitioner contributions, and critical essays to offer a panoramic yet grounded account of where the field of computational urban planning stands and where it should go. Unlike previous CUPUM volumes, we invite **long abstracts** of up to 500 words for peer-reviewed chapters as a first step, due **04 September 2026**. Authors of selected abstracts will be invited to submit a **full chapter** by **23 October 2026**. Chapters will be organised into thematic areas, reflecting the diverse ways in which AI is reshaping the planning, governance, and lived experience of cities.

For the edited volume, next to the general submission topics, we especially welcome submissions on subjects including, but not limited to:

- Urban mobility
- Spatial justice
- Urban health and well-being

- Resilience
- Computational Urbanism in the Global South

The next CUPUM volume will be edited by [Dr Achilleas Psyllidis](#), [Prof Christopher Pettit](#), and [Prof Marketta Kyttä](#).

Topics

Submissions are welcome across the breadth of computational urban planning and urban management. Contributions can be technical, applied, methodological, theoretical, critical, or some combination of these. Suggested areas include:

- Artificial Intelligence in Urban Contexts
 - Generative AI and large language models
 - Machine learning and deep learning for cities
 - Computer vision and remote sensing
 - Natural language processing
 - AI ethics, fairness, accountability, and governance
 - Human-AI collaboration in planning practice
- Urban Models and Simulations
 - Land-use and transport models
 - Agent-based models
 - Cellular automata
 - Network models
 - Microsimulation
 - Space syntax
- Urban Planning and Management
 - Case studies in urban development policy and regional planning
 - Digital planning
 - Digital twins
 - National, regional, and local governance
 - Collective intelligence
 - Public participation
 - Scenario planning
- Connected Environments
 - Sensors
 - Networked computing
 - Cloud technologies
 - Communications infrastructure
- Planning Support Science and Geodesign
 - Planning support systems
 - Geographic information science

- Serious games
- Urban Data
 - Datastores and data lakes
 - Data standards
 - Data linkage
 - Open data
- Visualisation and Communication
 - Dashboards
 - 3D visualisation
 - Augmented and virtual reality
 - Metaverse and virtual worlds
- Resilient Cities
 - Climate and resilience
 - Energy transitions
 - New methods in urban climate analytics
- Urban Analytics
 - Transport systems
 - Housing systems
 - Urban ecology
 - Urban economics and economic geography
 - Urban demography
- Critical and theoretical engagement with any of the above

Submission Options

CUPUM 2027 offers three submission tracks. All three are peer-reviewed.

1. Book chapter, 4,000 to 6,000 words, with an oral presentation at the conference. A long abstract of a maximum of 500 words is mandatory prior to the full chapter submission.
2. Conference paper, 1,500 to 2,000 word extended abstract, with an oral presentation at the conference.
3. Poster, 250 words abstract, with participation in the poster session.

All submissions are made through Oxford Abstracts at <https://app.oxfordabstracts.com/stages/82622/submitter>.

Submissions must be in English. Every submission should include a title, an abstract describing the topic, methods, main findings and implications for urban planning or management, and the name, affiliation and email address of each author. For co-authored work, please nominate one author as the presenting and corresponding author. Each accepted submission requires at least one author to register for the conference and to present the work in person.

Option 1: Book Chapter

CUPUM 2027 will produce an edited book alongside the conference, in line with the longstanding practice of pairing each CUPUM conference with a published volume. Around 25 chapters will be

selected by the book co-editors through a double-blind peer review process. The publisher is TU Delft OPEN Publishing. Chapters not selected for the book will be offered the option to revise and resubmit as conference papers.

Unlike previous CUPUM volumes, we invite long abstracts of up to 500 words for peer-reviewed chapters as a first step, due 04 September 2026. Please also indicate the title, author(s), affiliations, corresponding contact, and three to five keywords. A maximum of three bibliographic references is allowed, which will not count in the maximum word limit. No special template is required for the abstract submission. Authors of selected abstracts will be invited to submit a full chapter by 23 October 2026.

Submitted chapters run 4,000 to 6,000 words, inclusive of notes and references. Figures and tables count as 250 words each toward this limit. Authors should include an abbreviated abstract of up to 250 words covering the introduction, methods, main findings and recommendations. Accepted chapters are given an oral presentation slot at the conference. Submission templates and style guidance will be posted on the conference website.

Option 2: Conference Paper

The conference paper track is for work best communicated as an extended abstract of 500 words maximum, with an oral presentation if accepted. Accepted papers are also published in an online conference proceedings repository, separate from the edited book. Authors whose papers are not accepted will be invited to revise and resubmit to the poster track.

Option 3: Poster

The poster track is open to shorter contributions and to work best suited to an interactive format. Authors submit a 250 word abstract for peer review. Accepted contributions upload a digital poster ahead of the conference for inclusion in the virtual poster session, and are also welcome to bring a physical poster (up to A0, 841 by 1189 mm, or 33.1 by 46.8 inches) to display during the in-person sessions. Local printing of posters in Sydney may not be available, so please plan to bring printed copies if needed.

Key Dates

Date	Milestone
4 th September 2026	Long abstracts for book chapters due (max. 500 words)
18 th September 2026	Feedback on long abstracts
23 rd October 2026	Draft book chapters due
18 th December 2026	Accept or reject notification with chapter feedback
29 th January 2027	Revised book chapter submission
12 th February 2027	Conference paper and poster submissions due
12 th March 2027	Accept or reject notification (papers and posters)
23 rd February 2027	Conference registration opens

Date	Milestone
20 th April 2027	Early-bird registration closes
18 th June 2027	Revised papers and full digital posters due
5 th – 10 th July 2027	CUPUM 2027 conference

Contact

Queries about submissions can be sent to cupum2027@unsw.edu.au. The Programme Committee aims to respond within five working days.

Conference website: <https://conference.unsw.edu.au/en/cupum-2027>

CUPUM series: cupum.co