

# 1<sup>st</sup> International Conference on Synergies in Next-Generation Cyber-Physical Systems (SNGC- 2026): Collaboration Between Sensing, Control, and Computation



Technical Co-sponsor

Hybrid | Cardiff, UK

September 16-18, 2026

<https://www.sngc-conf.co.uk/>



## CALL FOR PAPERS

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### Important Dates

**30<sup>th</sup> December 2025**

Call for special sessions

**27<sup>th</sup> March 2026**

Paper submission deadline

**12<sup>th</sup> June 2026**

Notification of acceptance

**15<sup>th</sup> August 2026**

Submission of camera-ready papers

**30<sup>th</sup> June 2026**

Early Bird Registration closes

**16-18 Sept 2026**

Conference dates

We invite you to **SNGC-2026**, the inaugural event of a new international conference series dedicated to advancing research at the intersection of sensing, control, and computation in Cyber-Physical Systems (CPS).

Technically co-sponsored by the IEEE Computational Intelligence Society, this hybrid event will be hosted by Cardiff Metropolitan University in September 2026. SNGC 2026 offers an interdisciplinary platform for researchers, industry professionals, and practitioners to drive innovation across smart environments, autonomous systems, healthcare, advanced manufacturing, and next-generation communication networks.

SNGC 2026 will feature cutting-edge research, technical presentations, and keynote sessions from academic and industry experts. Topics include integrated sensors, real-time control, AI-driven data processing, interoperability, privacy and security, and the impact of 5G/6G and IoT on CPS. The conference will also spotlight responsible AI use cases and their role in building trustworthy CPS. Original research papers and case studies are invited across tracks such as smart cities, autonomous robotics, healthcare, and CPS simulation. With a strong focus on collaboration, SNGC 2026 aims to foster impactful dialogue and partnerships shaping the future of intelligent, responsive CPS.

Join us in **Cardiff, UK, or online in Sept 2026 for this hybrid event**, where we will explore transformative technologies and novel approaches in next-generation CPS.

### Conference Tracks

**Track 1: Integrated Sensing Technologies for Smart Environments**

**Track 2: Real-Time Control Strategies in CPS**

**Track 3: Data Processing and Computational Methods in CPS**

**Track 4: Interoperability and Standardization in CPS Components**

**Track 5: Emerging Security and Privacy Concerns in Collaborative CPS**

**Track 6: Intelligent Applications of CPS in Smart Cities**

**Track 7: Healthcare Applications of CPS**

**Track 8: Autonomous Systems and Robotics in CPS**

**Track 9: Modelling and Simulation of CPS**

**Track 10: Impact of 5G/6G and IoT on CPS**

**Track 11: Transparent, Accountable and Responsible AI Use Cases in CPS**

### Publications

All accepted papers will feature in SNGC 2026 Proceedings and will be submitted for possible inclusion in IEEE Xplore.

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