

1st 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/>



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Important Dates

12th January 2026

Call for special sessions

27th March 2026

Paper submission deadline

12th June 2026

Notification of acceptance

15th August 2026

Submission of camera-ready papers

30th 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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