

Call for Papers, Submission deadline: 15 February 2020

UKSim-AMSS 22nd International Conference on Mathematical/Analytical Modelling and Computer Simulation, UKSim2020,

25 - 27 March 2020, Cambridge University (Emmanuel College), UK.

Conference website: <http://uksim2020.info>

**Special theme this year: Modelling and Simulation of Climate Change**, see <https://www.climateprediction.net/>

Publication: Proceedings will be published online in a special issue of Int. J. of Simulation: Systems, Science and Technology, ISSN 1473-804x, website: <http://ijssst.info>, available as open-access in full at the time of the conference and later submitted for indexing in Scopus.

Papers are invited on any aspect of mathematical modelling and computer simulation to be presented at UKSim2020, Cambridge, United Kingdom, 25 to 27 March 2020. The event provides authors with an outstanding opportunity for networking and presenting their work at a top quality international conference.

Tracks/Themes

- Climate change
- Intelligent Systems and Applications
- Hybrid and Soft Computing
- Neural Networks
- Fuzzy Systems
- Evolutionary Computation
- Autonomous Mental Development
- Adaptive Dynamic Programming and Reinforcement Learning
- Bioinformatics and Bioengineering
- Computational Finance and Economics
- Data and Semantic Mining
- Games, VR and Visualization
- Emergent Technologies
- Systems Intelligence and Intelligence Systems
- Control of Intelligent Systems and Control Intelligence
- e-Science and e-Systems
- Robotics, Cybernetics, Engineering, Manufacturing and Control
- Methodologies, Tools and Operations Research
- Discrete Event and Real Time Systems
- Image, Speech and Signal Processing
- Natural Language Processing/language technologies
- Industry, Business, Management, Human Factors and Social Issues
- Energy, Power, Transport, Logistics, Harbour, Shipping and Marine Simulation
- Virtual Reality, Visualization and Computer Games
- Parallel and Distributed Architectures and Systems
- Internet Modelling, Semantic Web and Ontologies
- Mobile/Ad hoc wireless networks, mobicast, sensor placement, target tracking
- Performance Engineering of Computer & Communication Systems
- Circuits, Sensors and Devices

Suggested topics (other topics are also welcome): Simulation methodology and practice, languages, tools and techniques. Models and modelling tools. Data/object bases. Analytical and statistical tools. Simulators and simulation hardware, training simulators. Integration of simulation with concurrent engineering, integrated design and simulation systems. AI, intelligent systems, agent-based simulation, decision support systems, philosophical issues, analogies, metaphors, knowledge modelling,

acquisition and synthesis of new knowledge/models, intelligent/adaptive behaviour, man/machine interaction, control systems. Parallel and distributed simulation, discrete event systems. Artificial neural networks, computational intelligence.

Applications: aerospace; remote sensing; electronic circuits and systems; communication and networks; business; management; finance; economics; leisure, games, war/conflict/rebellion modelling; psychology, cognitive functions, behaviour, emotion, subjectivity; humanities, literature, semantics modelling/dynamics; biology; medicine; public health; energy, power generation and distribution, manufacturing; planning; control; robotics; measurement; monitoring; energy; safety critical systems; transportation; structural mechanics and civil engineering, oil and gas; education and training; military.

#### Submission Guidelines

You are invited to submit:

- full paper of 6 pages or short paper of 4 pages (Letter format) for oral presentation,
- proposal to organize a technical session and/or workshop.

Submissions must be original, unpublished work containing new and interesting results that demonstrate current research in all areas of modelling and simulation and their applications in science, technology, business and commerce.

The conference is jointly organized by UK Simulation Society and Asia Modelling and Simulation Section and is technically co-sponsored by:

- Nottingham Trent University, UK
- Cardiff Metropolitan University, Wales, UK
- University of Wales Trinity Saint David, Wales, UK.
- University of Stavanger, Norway.
- University of Kent in Canterbury, UK
- Aberystwyth University, Wales, UK.
- European Simulation federation, EUROSIM
- European Council for Modelling and Simulation, ECMS

Paper Submission: UKSim2020 is using EDAS for submission, paper processing and registration, authors need to:

- create an account with EDAS (if not already have one) at <http://edas.info>
- open the list of conferences managed by EDAS & find UKSim2020
- click on Submit button on the right to enter your paper title & abstract
- upload file.

EDAS URL: <http://edas.info> to submit a paper.

Kindly promote UKSim2020 to all your contacts in your university, country and worldwide. Cambridge University, Cambridge city and England are great places to visit and explore. UKSim2020 is promising to be a great conference and is a golden opportunity to network with world specialists and forge new friendships and cooperation with colleagues in the UK, Europe and worldwide.

Best regards and hope to see you in Cambridge at UKSim2020 in March 2020.

On behalf of  
Conference committee.