Call for Papers, New Submission deadline: 15 January 2022

UKSim-AMSS 24th International Conference on Mathematical/Analytical Modelling and Computer Simulation, UKSim2022

Dates to be confirmed, Cambridge University (Emmanuel College), UK.

Conference website: http://uksim2022.info

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

Publication: in the journal IJSSST special issue, available online as fully open-access files from the time of the conference and indexed in doi.org, EBSCO, Research Gate, Scope, Google Scholar and searchable online by all global search engines.

Due to travel restrictions caused by the corona virus the conference will be held in mixed physical/virtual mode, with special discounted registration fee for virtual mode, see website. All registered papers will be published as planned and made available from the conference website. All PowerPoint files, including keynote speakers, will be available from the website.

Papers are invited on any aspect of mathematical modelling and computer simulation to be presented at UKSim2022, Cambridge, United Kingdom. The event provides authors with an outstanding opportunity for networking and presenting their work at a top quality international conference.

Tracks/Themes

- Virtual Reality and Artificial Intelligence
- Deep Learning
- Climate Change Modelling and Simulation
- Bio-Informatics and Bio-Medical Simulation
- Viral Infection modelling and simulation
- Hybrid Intelligent Systems
- Soft Computing and Hybrid Soft Computing
- Computational Intelligence
- Control of Intelligent Systems
- 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
- Computer Generated Art (images to be exhibited at the conference and included in the proceedings CD)
- Industry, Business and Management
- Human Factors and Social Issues
- Energy, Power Generation and Distribution
- Transport, Logistics, Harbour, Shipping and Marine Simulation
- Supply Chain Management
- 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: UKSim2022 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 UKSim2022
- 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 UKSim2022 to all your contacts in your university, country and worldwide. Cambridge University, Cambridge city and England are great places to visit and explore. UKSim2022 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 UKSim2022.

On behalf of
Conference committee.