

The 8th International Conference on RiTA

Robot Intelligence Technology and Applications Eisteddod Roboteg, the first Robotics Expo in Wales 2020.icrita.org

30th October -1st November 2020 Cardiff, Wales



In conjuction with EURI

"READY, WILLING AND ABLE FOR ROBOT INTELLIGENCE TECH & APPS?"

EUREKA Robotics Lab

United Kingdom



PUBLICATION

All accepted and presented papers will be published in the conference proceedings on IEEE Xplore Digital Library. Extended version of conference papers from the RiTA 2020 with at least 50% new content are welcomed to submit to the following possible journals (TBC: special issues proposals under consideration) IEEE Access (impact factor of 4.098 in the 2018 JCR), Malaysian Journal of Computer Science (Web of Science Q4 and Elsevier's Scopus Q2-indexed); or On the Horizon (Scopus & ESCI-indexed).



KAIST

IMPORTANT DATES

- 1st July 2020: Deadline of Paper Submission
- 15th Aug 2020: Notification of Acceptance
- 15th Sept: Final Manuscript due

TECHNICAL CO-SPONSORS:









On The Horizon

KROS

WELCOME

Under the theme of this year's conference in Cardiff, "Ready, willing and able for Robot Intelligence Tech & Apps?", the International Conference on Robot Intelligence Technology and Applications (RiTA) 2020 aims to serve as a platform for academics, researchers, government & policymakers, experts, industrial practitioners and other relevant stakeholders in the dissemination of new knowledge on RiTA fundamental research, design & developing RiTA, working & living with RiTA, and shaping RiTA for ethical and legal

> Contac us: RiTA 2020 Secretariat info@icrita2020.org



welcome high-quality papers as follows:

Cognitive Intelligence

Machine learning Cognitive modeling of agent systems Probabilistic and uncertain reasoning Multi-criteria decision making Task scheduling Memory management Fuzzy reasoning Reasoning strategies Brain models / cognitive science Other aspect of Cognitive Robotics

Social & Service Intelligence

Intelligent interactive technology Human-robot interaction Human-machine interface/integrati Teleoperation/ telerobotics/ haptics Human biology and biomechanics Markets and computational societie Interface design and assessment Chatbot

Social robotics: model & impl Other aspect of Service & S

Educational Intelligence

Reinforncment learning Smart assessment & feedback Educational theories for robotics Robotic teaching assistant: Design thinking for education intelligence

STEM with robotics STEAM with robotics

Other aspect of Educational Robotics

Task/motion/trajectory planning Mobile/humanoid/micro/nano robotics Neuroscience based control Neurobotics CPG-based control Physiologic signals integrated robot control Ambient Intelligence Sensor integration/fusion/perception Multisensor data fusion Navigation/SLAM/ localization Distributed intelligent algorithms and techniques

Student Track: 3MT Competitions

Ubiquitous computing

Behavioral Intelligence

Kinematics/dynamics/control

Aritifical Intelligence

Deep learning, Deep neural networks, Image understanding, Natural language processing, Speech, voice, text recognition, Expert systems, Reasoning & Inference Planning, video and data transmission / processing for robots, action & gesture recognition for robots.

Conference Scope

Collective Intelligence

Multi-robot systems Cellular/distributed/ cooperating robotics Learning and hybrid systems Human knowledge discovery Modeling and system Swarm intelligence Cooperative Systems and Control

Applications

Digital creatures Intelligent agents Computer vision Virtual/Augmented reality Robotics for tourism or hospitality Robotics for healthcare and rehab Robotics for Military Robotics for Surveillance Pattern recognition Face recognition Finger print recognition

CONFERENCE FEES

	Early Bird	Regular
	(20th Sept)	(after 20th Sept)
Attendee / Student rate	USD250	USD350
Presenter rate	USD500	USD600

Conference registration fee includes admission to RiTA2020, Robots Eisteddfod, EUREKA Robotics Lab and campus tour, program booklet, welcome reception, conference banquet, refreshment breaks, and lunches.

Genetic & Quantum Intelligence

Computational intelligence Evolutionary algorithm Evolutionary robotics Mimetic algorithm Immune algorithm Quantum computing Quantum Support Vector machine Ouantum robotics

Other

Soft robotics Bio-inspired robotic design & control Self-propelled capsule robotic systems Robotics Control with AR Aesthetics and Robotics Ethical, Social, Legal and Policy Implications for RiTA Chatbots

lities around the UK

