

33rd Irish Signals and Systems Conference 2022

<http://www.issc.ie>

Dear Colleague,

The [33rd Irish Signals and Systems Conference](#), ISSC 2022, will be held in Cork, Ireland on 09-10 June 2022 and hosted by Munster Technological University.

Call for Papers

Over the past 32 years, ISSC has become the premier conference in Ireland addressing all aspects of signals and systems. The conference focuses on Digital Signal Processing, Control Systems, Communications and related fields of ICT, and encompasses algorithms and system modelling, design and implementation for a broad range of applications. The Organising Committee would like to invite you to participate in the 33rd Irish Signals and Systems Conference, ISSC 2022.

Important Dates and Topics of Interest

Full Paper Submission: 13th March 2022

Notification of Acceptance: 24th April 2022

Early Registration Deadline: 8th May 2022

Submission of Camera Ready Paper: 15th May 2022

Author Registration Deadline: 15th May 2022

Conference Dates: Thursday 9th to Friday 10th June 2022

Signal Processing <ul style="list-style-type: none">• Speech, audio, image, video and multimedia signal processing• Bio-inspired systems• Biomedical signal processing and systems• Medical diagnostics• Signal-based QoE and UX assessment• Analog, mixed-signal and RF signal processing• Embedded DSP	Control Systems <ul style="list-style-type: none">• Linear and non-linear systems modelling and control• Robust and adaptive control• Distributed and networked control• Systems identification• Control applications
Cyberphysical Systems <ul style="list-style-type: none">• Networks and Networked Systems• Data management and processing of CP Systems• Smart living technologies• ASICs and FPGAs for signal	Communications and Future Networking <ul style="list-style-type: none">• Next-generation wireless and optical communications• Network architectures and optimisation

<ul style="list-style-type: none"> processing and systems on chip • Applications in control, power electronics and communications • Energy-efficient application and system implementations • Digital manufacturing • Robotics and Autonomous systems 	<ul style="list-style-type: none"> • Distributed media and services • Cognitive and sensor networks • Internet of Things • Green Communication and networking • Blockchain in communication networks • Intelligent Reflecting Surface assisted wireless networks • Software-Defined Networks • UAV assisted communication
<p>Cybersecurity</p> <ul style="list-style-type: none"> • Cryptography and information hiding • Privacy and privacy-preserving algorithms • Trust and Trustworthy Systems • Network, application and system security • Industrial control system (ICS) and Cyberphysical Systems security • AI for Cybersecurity and Cybersecurity for AI • Digital and information forensics 	<p>Machine Learning and AI</p> <ul style="list-style-type: none"> • Machine learning for systems and signal processing • Deep Learning • Machine Learning at the Edge • Optimization Privacy and Trust in Machine Learning • Affective computing • Ethics in AI and machine learning • Interpretability and Analysis of Machine Learning Models • Deep Learning and Pre-trained models for Natural Language Processing and Computer vision • Green AI
<p>Signals and Systems for Sustainability</p> <ul style="list-style-type: none"> • Signals and Systems for Sustainable Applications (green and circular economy, pollution, water, waste, food) • Architectures, theories and algorithms for energy-efficient signal processing • Mitigating and Minimising Digital Waste • Efficient and Sustainable AI 	

ISSC 2022 welcomes submissions for Special Sessions on novel or emerging areas of research in signal processing, control, communications, cybersecurity, applied ML/AI and related ICT areas. Developments in engineering/ICT education are also very welcome. Of particular interest are emerging applications and innovations in ICT inspired by the Covid-19 pandemic. Please contact issc2022@mtu.ie with your suggestions.

Submission Guidelines

Prospective authors are invited to initially submit their work as a [fully formatted manuscript](#) of original research. For the final submission, papers over 6 pages will be charged €90 per extra page up to a maximum of two extra pages (8 pages maximum). Papers must be submitted via the [online submission system](#) on the conference website. Subject to the conference requirements for registration and attendance, and IEEE requirements (including [authorship](#)), accepted papers will be published in the IEEE Xplore Digital Library.

We look forward to your submission or participation in ISSC 2022.

Kind Regards,

Seán McSweeney

General Chair, ISSC 2022
On behalf of the Organising Committee