The 21st IEEE International NEWCAS Conference will be held in Edinburgh, Scotland, on June 26 – 28, 2023. The program of the conference will be tailored to reflect the wide spectrum of topics and research interest shared among the organizing entities. This collaboration will be oriented towards advanced research in adaptive systems which constitutes the highlights of the NEWCAS conference, but also areas related to analog and digital signal processing, low power consumption, circuits and systems designs.

The topics include, but are not limited to:

- Analog/mixed-signal circuits
- Biomedical circuits and systems
- Digital circuits and systems
- Communications circuits and systems
- RF & microwave circuits
- Photonic integrated circuits
- CAD and design tools
- Test and verification
- Energy harvesting and power management
- Low-power low-voltage designs
- Microsystems and Embedded systems
- Circuits and systems for AI algorithms
- Neural networks and neuromorphic circuits
- Sensory circuits and systems
- Imaging and image sensors
- Emerging technologies and technology trends

The organizing committee invites prospective authors to submit complete 4-page papers in standard IEEE double-column format, with the possibility of an additional page dedicated to references, to clearly present the work, methods, results, originality, significance, superiority and applications of the techniques discussed. The papers must be submitted in PDF format, and only electronic submissions will be accepted.