



44th Annual International Conference of
**the IEEE Engineering in
Medicine and Biology Society**

11-15 July 2022  Glasgow, Scotland, UK



embc.embs.org/2022/

CALL FOR PAPERS

The IEEE Engineering in Medicine and Biology Society is pleased to announce that the 44th International Engineering in Medicine and Biology Conference will be held in Glasgow, United Kingdom from 11-15 July, 2022. This conference is themed, "Biomedical Engineering transforming the provision of healthcare: promoting wellness through personalised & predictable provision at the point of care". The scientific tracks will cover the standard topics of the EMBS technical committees with an additional topic, consistent with the conference theme. Alongside the scientific sessions, there will be an exhibition comprising biomedical engineering companies, publishers, SMEs, start-ups, funded biomedical research, and Biomedical Engineering programs, Institutes, and Universities. The conference will provide networking opportunities for engineers, clinicians, scientists, and entrepreneurs, as well as for students and young professionals. The conference program consists of mini-symposia, workshops, invited sessions, oral and e-poster sessions, sessions for students and young professionals, and sessions for clinicians and entrepreneurs. Glasgow and Scotland, within which it sits, have been the centre of innovation for scientific, medical and technical research for

centuries - for example, John Macintyre established the world's first hospital radiology department at Glasgow Royal Infirmary in 1896, and obstetric ultrasound was launched at the Queen Mother's Hospital, Glasgow in the late 1950s. Many more technical and medical innovations are linked to Scotland and the wider UK - the seat of many scientific discoveries over many centuries.

IMPORTANT DATES

Special Sessions & Workshop Proposals

Submission deadline	19 January, 2022
Accept/reject notification	23 January, 2022
Final Submission deadline	2 February, 2022

Full Papers

Submission deadline	24 January, 2022
Accept/reject notification	25 March, 2022
Final submission deadline	8 April, 2022

1-Page Papers (Research Poster Papers)

Submission deadline	1 April, 2022
Accept/reject notification	28 April, 2022
Final submission deadline	6 May, 2022

TOPICS

PHYSIOLOGICAL SYSTEM ENQUIRY

Physiological Organ Systems (inc Cardiovascular, Respiratory, Renal etc.); Neural & Neuromuscular Systems
Micro/Nano Bioengineering; Cellular/Tissue Engineering; Multi-scale Physiological Systems

SENSING & PROCESSING ACQUIRED SIGNALS

Biomedical Sensors and Systems (including wearables)
Biomedical Signal Processing
Biomedical Imaging and Image Processing

SPECIAL CONFERENCE THEME

Personalised and Predictable Health Provision at the Point of Care

APPLIED CAPABILITIES

Diagnostic/Therapeutic Systems; Devices and their Technologies;
Clinical Engineering & its Translation
Bio-robotics; Surgical Planning and Biomechanics; Rehabilitation Engineering
Biomedical/Health Informatics
Computational Systems; Synthetic Biology; Multi-scale modelling

BME & EDUCATION

Biomedical Engineering in Education and Public Health

ORGANISING COMMITTEE

Conference Chair ♦ Christopher James

Conference co-Chair ♦ James Patton

Programme Chair ♦ Ronald Summers

Finance Chair ♦ Nigel Lovell

EMBC EiC ♦ Riccardo Barbieri

EMBS VP Conferences ♦ James Weiland

Industry Liaison Chair ♦ William Sandham

ED & I Chair ♦ Carolyn McGregor

Student & Young Professionals ♦ Cristian Linte

Publicity & Comms Chair ♦ Richard Gault

Intl Program Committee Chair ♦ Luca Mainardi

Workshop Coordinator ♦ Joaquin Azpiroz

EMBS Student Rep ♦ Jingzhi An