



# IEEE International Microwave Biomedical Conference

## September 11-13, 2023 Leuven, Belgium

### CALL FOR PAPERS

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The **2023 IEEE International Microwave Biomedical Conference (IMBioC 2023)** will be held on September 11-13, 2023, in Leuven, Belgium in a physical mode. IMBioC is an international forum to exchange ideas and information on state-of-the-art research in RF and microwave, antennas and electromagnetic theory and technology, that bridge the science and engineering gap as applied to biomedical systems. IMBioC 2023 is organized by KU Leuven. IMBioC 2023 is the continuation of a series of IEEE MTT-S biomedical focused events held in Suzhou (2022), Toulouse (2020), Nanjing (2019), Philadelphia (2018), Gothenburg (2017), Austin (2016), Taipei (2015), San Diego (2015), London (2014), Newport Beach (2014), Singapore (2013), Austin (2013), Santa Clara (2012) and Phoenix (2011). IMBioC 2023 will feature both invited and contributed papers. Distinguished researchers will be invited to deliver keynote speeches on technology trends and significant advances in relevant topics. Contributed papers are solicited for the topics as listed below.

#### Important dates

##### Paper submission

› **May 1, 2023**

##### Paper notification

› **July 1, 2023**

##### Final manuscript

› **Aug 1, 2023**

#### Topics of interest include, but are not limited to

- › RF/microwave/THz circuits and systems for biomedical applications
- › Antennas and propagation for biomedical applications
- › Bio-Electromagnetics
- › Electromagnetic imaging and magnetic resonance imaging
- › Radar and radio sensor applications for biomedical applications
- › Wireless power transfer and wireless communication technologies for biomedical applications
- › Wearable and bio-implantable antennas and wireless devices
- › Interaction of electromagnetic fields with biological materials at the tissue, cellular and molecular levels
- › Pathological, physiological and biochemical studies with electromagnetic waves
- › Electromagnetic safety studies and regulatory compliance
- › Electromagnetic compatibility and interference for biomedical applications
- › Internet of Things (IoT) for biomedical applications
- › Body Sensor Network and body-centric communications
- › Other related topics

#### Paper submission

Authors are invited to submit three-page manuscripts in PDF format. All papers must be written in English and describe clearly the concept and results. The template is available on the IMBioC's website. Papers submitted will be peer reviewed. All presented papers at the conference will be submitted to IEEE Xplore.

#### Best Student Paper contest

A "Best Student Paper" award, sponsored by GAAS, will be presented at the conference. The awards committee will judge the papers on originality, significance, technical soundness, and presentation. To qualify, the author must be a full-time student who presents the paper as the first author.

#### Special Issue in IEEE J-ERM

Authors presenting at IMBioC 2023 are invited to submit an expanded version of their papers to a special issue in the IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology (J-ERM): [iee-jerm.org](http://iee-jerm.org).



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