

2022 IEEE International Microwave Biomedical Conference



Suzhou, China, May 16-18, 2022

www.nusri.cn/IMBioC2022

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The 2022 IEEE International Microwave Biomedical Conference (IMBioC 2022) will be held on May 16-18, 2022 in Suzhou, China in a hybrid 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 techniques, that bridge the science and engineering gap as applied to biomedical systems. IMBioC 2022 is organized by National University of Singapore Suzhou Research Institute and co-organized by Nanjing University of Science and Technology, China.

IMBioC 2022 is the continuation of a series of IEEE MTT-S biomedical focused events held in 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 2022 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.

Topics of interest include, but 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 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 (IoTs) for biomedical applications
- Body Sensor Network and body-centric communications
- Other related topics

Paper submission

Authors are invited to submit up to 3-page manuscripts in PDF format. All papers must be written in English and clearly describe the concept and results. The template is available on the IMBioC website. Papers submitted will be peer reviewed. All presented papers at the conference will be included in IEEE Xplore, pending quality review. Note that one-page abstracts can also be acceptable, but it will not be included in IEEE Xplore.

Best Student Paper contest

Best Student Paper awards will be presented to the winners at the conference. The awards committee will judge the papers on originality, significance, technical soundness, and presentation. To qualify for the award, 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 2022 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): <http://iee-jerm.org>.

Important dates

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| • Paper submission: | December 31, 2021 | February 15, 2022 |
| • Paper notification: | February 28, 2022 | March 15, 2022 |
| • Final manuscript: | March 15, 2022 | March 31, 2022 |

