



12th ICBEM - International Conference on Bioelectromagnetism and 2nd BDW - Brain Dynamics Workshop

St. Louis, MO, USA MAY 27-30, 2020

Call for Papers



The 12th International Conference on Bioelectromagnetism (ICBEM) will be held in St. Louis, MO USA, on 27-30 May 2020 under the auspices of the International Society for Bioelectromagnetism (ISBEM). The 2nd Brain Dynamics Workshop will be held concurrently with the ICBEM as a special thematic session on 29 May, 2020. This workshop will highlight emerging research on dynamical bioelectromagnetic phenomena in neural circuits. Both the ICBEM and the Brain Dynamics Workshop will serve as a platform for information exchange for researchers from across the globe to share their experience at the intersection of electromagnetism, engineering, biology and medicine.

The following topics will be addressed (but are not limited to) at ICBEM 2020:

- Machine learning in bioelectromagnetic problems
- Bioelectric and biomagnetic phenomena
- Mathematical and computer models
- Theory and algorithms in the forward problem
- The inverse problem and source imaging
- Mapping techniques
- Electro- and magnetocardiography
- Electro- and magnetoencephalography
- Electromyography
- Bioelectromagnetic measurement and instrumentation
- Bioelectric and biomagnetic signal processing
- Brain-computer interfaces (BCI)
- Electrical impedance tomography (EIT)
- Electrical bioimpedance
- Electric and magnetic stimulation

Contributions are invited from researchers in academia or industry along any of the above tracks.

The author guidelines and layout templates for preparing the contributions are available on the website. Contributions can comprise up to four (4) pages in length. All contributions will be made available as part of the Conference Proceedings through the International Journal of Bioelectromagnetism www.ijbem.org

IMPORTANT DEADLINES

Special Session proposals:	Jan 15, 2020
Full paper submission:	Feb 17, 2020
Notification of acceptance:	Mar 16, 2020
Final paper submission:	Mar 31, 2020
Early registration:	Apr 15, 2020

Organizers:

ICBEM 2020: Prof. Martin Arthur, PhD,
Emeritus & Senior Professor of Electrical & System
Engineering, Washington University in St. Louis USA

Brain Dynamics Workshop: Prof. ShiNung Ching, PhD
Associate Professor, Electrical & Systems Engineering,
Washington University in St. Louis USA

Contact Info:

[https://sites.wustl.edu/bioelectromagnetism/
icbem2020@wustl.edu](https://sites.wustl.edu/bioelectromagnetism/icbem2020@wustl.edu)