

Report on the First International Conference on Medical Imaging and Case Reports (MICR-2018)

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Meeting Report

This article summarizes the three-day program of presentations, panel discussions and interactive dialogue at the first **International Conference on Medical Imaging & Case Reports (MICR-2018)**. The conference took place from 29 to 31 October 2018 at DoubleTree by Hilton Baltimore -BWI Airport, Baltimore, MD and was hosted by **United Scientific Group (USG)** (A non-profit organization*), an expert-driven initiative led by the editor's association and the advisory board which includes academicians, researchers, and industry leaders across various fields of research. USG provides broad range of services in the fields of science and technology including publishing, conducting world class scientific events, and holding highly interactive and proficient world forums.

The main aim of the conference was to provide timely, evidence-based information that helps radiologists, sonographers, medical physicists, clinicians, biomedical engineers and allied experts with new research and innovations in medical imaging and advance quality diagnosis in patient care. MICR is focused to introduce the latest achievements, technologies and breakthroughs in Medical Imaging to all healthcare practitioners.

The event brought together some 70 radiologists, academicians, sonographers, medical physicists, nurses, clinicians, biomedical engineers and allied experts in Medical Imaging from 48 organizations and 23 countries to discuss on the latest scientific advances, technologies and breakthroughs in the field of medical imaging.

The conference began with opening remarks by Vice-President of USG **Dr. Sudhakar Yakkanti** and continued with keynote presentations.

Day 1: The first day (*October 29, 2018*) of the conference is filled with some very exciting Keynote presentations. The session started with talk of **Dr. Rajendra D. Badgaiyan**-Professor, Department of Psychiatry, Icahn School of Medicine at Mount Sinai, NY, on a new technique called Neurotransmitter Imaging, followed by oration of **Dr. Martha E. Shenton**-Director, Psychiatry Neuroimaging Laboratory, Harvard Medical School, MA, on how the advances in neuroimaging have revolutionized the understanding of human brain. **Dr. Michael Miller**-Director, Department of Biomedical Engineering, Johns Hopkins University, MD addressed about AI and brain clouds in medical imaging. **Dr. Susan C. Harvey**-Director of Breast Imaging, The Russell H. Morgan Department of Radiology and Radiological Science, JHM, MD addressed the strategies for decreasing screening mammography recall rates. The next keynote was delivered by **Dr. Rene Vidal**-Professor, Department of Biomedical Engineering, Johns Hopkins University, MD on machine learning for interpreting biomedical data, followed by **Dr. Jinah Park**-School of Computing, Korea Advanced Institute of Science and Technology, Republic of Korea presenting the deformable modeling

research work applied for various organ structures of brain.

The post-lunch session kicked off with a talk delivered by **Dr. Polina Golland**-Professor, EECS Department, Massachusetts Institute of Technology, MA on medical image imputation, followed by session of **Dr. Jeff W. M. Bulte**-Director of Cellular Imaging, The Johns Hopkins Institute for Cell Engineering, MD on key role of medical imaging in stem cell therapy and **Dr. Terry S. Yoo**-School of Computing and Information Science, University of Maine, ME spoke on lightweight technology for interventional medicine. Day 1 was concluded with the session by **Dr. Jeffrey H. Siewerdsen**-Professor, Department of Biomedical Engineering, Johns Hopkins University, MD on the advances in intraoperative imaging and registration for image-guided interventions.

Day 2: Second day (*October 30, 2018*) has started with another keynote by **Dr. Kevin S. Zhou**-Professor, Institute of Computing Technology, Chinese Academy of Sciences, China addressing machine learning and knowledge modelling approaches in medical imaging. Continuing high spirits after keynotes, it was time for Technical Sessions-**Neuroradiology and Diagnostic Imaging; Cancer Imaging and Nuclear Medicine; Machine Learning, Medical Imaging and Analysis**. These sessions covered a wide range of topics in the field of medical imaging including Magnetic Resonance Imaging, Neuroradiology, Positron Emission Tomography/Computed Tomography, Ultrasound Imaging, Computer Aided Diagnosis, MR fluoroscopy, Radiograph etc.

Day 3: Final Day (*October 31, 2018*) of the conference continued the technical sessions on **Diagnostic Imaging and Cardiac Imaging**. The speaker presentations in these sessions mainly focused on the topics Elastography, Image-Guided Surgery, MR-Venography, Sonourethrography.

Poster/Virtual Presentations: MICR-2018 had an interactive poster session and displayed posters throughout the conference. MICR has also presented speakers with an opportunity of virtual presentations/posters to give their talk electronically. After the successful event, MICR-2018 was concluded with a closing ceremony and certificate distribution.

The conference also provided a valuable networking opportunity and set the stage to share ideas and valuable concepts. The idea was to give students, young researchers/doctors, speakers an opportunity to interact with some eminent people in the field and with each other to discuss, share their knowledge and get exposed to new trends in medical imaging.

We would like to take a moment and thank our Organizing Committee members **Dr. Martha E. Shenton**-Harvard Medical School, **Dr. Rajendra Badgaiyan**-Icahn School of Medicine at Mount Sinai, **Dr. Boris Gramatikov**-Johns Hopkins University School of Medicine, for their constant support throughout the conference.

We specially thank our esteemed keynote speakers, featured speakers, students and all the attendees for their participation and cooperation throughout the event. USG is honored to host such a successful gathering comprising remarkable people in the field of Medical Imaging.

MICR-2019

We earnestly invite you to our upcoming 2nd International Conference on Medical Imaging and Case Reports (MICR-2019). We sincerely believe your valuable presence would make the event successful.

Conference Proceedings

All the abstracts presented at the conference will be published in the official journal of the MICR-2018-**Journal of Medical Imaging and Case Reports (MICR)**. MICR is an international peer-reviewed, open-access journal for publishing high-quality articles related to all areas of radiological technology, diagnostic imaging, image analysis methodologies and tools. We encourage scientists to publish their original research, reviews, case reports, rapid communications, editorial comments, and letters to the editor in all the fields of clinical and medical research intrinsic to all imaging modalities, including optical, ultrasound, magnetic resonance, x-ray computed tomography, nuclear imaging for diagnostic and treatment purposes.