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Meeting Report

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Report on the 2nd International Conference on Medical Imaging and Case Reports (MICR-2019)

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Meeting Report

This article summarizes the three-day program of scientific presentation, panel discussions and interactive dialogue at the **2nd International Conference on Medical Imaging & Case Reports** (MICR-2019) held at Crowne Plaza Boston - Newton, Boston, MA from 20 to 22 November 2019. MICR-2019 is organized by the **United Scientific Group (USG)**, which is a nonprofit scientific organization with tax-exempt status under Section 501(c)(3) of the Internal Revenue Code of United States of America. USG is an expert-driven initiative led by the editor's association that includes academicians, researchers, and senior scientists. Members of this association serve as the board of directors and are committed to work together and contribute their services to scientific community by organizing scientific meetings around the world and extending their expertise in publishing scientific journals.

The meeting has brought together doctors, academicians and scientists who use Medical Imaging technique in their research. It allowed interaction between basic and clinical scientists to help both in their respective fields. The conference provided a valuable networking opportunity and set the stage for sharing ideas and concepts. It provided a platform to students, young researchers/doctors, to interact with each other and with some of the eminent people in the field to discuss and share their ideas.

The organizing committee for MICR included **Prof. Rajendra D. Badgaiyan**, Long School of Medicine, University of Texas Health and South Texas Veterans Health Care System, San Antonio, TX, **Dr. Boris Gramatikov**, Johns Hopkins University, Baltimore MD, **Dr. Mei-Hua Hall**, Harvard Medical School, Boston, MA, **Prof. Anna Yankovskaya**, National Research Tomsk State University, Russia, **Dr. Kenji Suzuki**, Tokyo Institute of Technology, Tokyo, Japan. We thank the committee members for their constant support in organizing the conference. Following is a summary of the three-day event.

Day 1 *(November 20, 2019)*: The conference began with opening remarks by **Prof. Rajendra D. Badgaiyan** from UT Health San Antonio, TX. It was followed by his keynote lecture on a novel neuroimaging technique which allows detection of acute changes in the brain neurochemistry in the live human brain. The session moved forward with lecture on recent progress in magnetic resonance imaging based neuroinformatics by **Dr. Michael I. Miller**, Johns Hopkins University, Baltimore, MD. **Prof. Elliot K. Fishman** of Johns Hopkins University, Baltimore, MD provided an insight on Cinematic Rendering (CR)-3D visualization method. **Dr. George El Fakhri** of Harvard Medical School, Boston, MA addressed the challenges and opportunities associated with multimodal imaging using PET, MR and CT. The following lecture by **Dr. Hayit Greenspan** of Tel-Aviv University, Israel discussed her research on deep learning, computer-aided detection and diagnostic tools, detection, segmentation and characterization of

radiological images. In the following talk **Dr. Justin Baker** of Harvard Medical School, Boston, MA spoke about efforts to bridge complementary approaches through single-case experimental designs in individuals with severe mental illness including bipolar disorder and schizophrenia.

The post lunch session started with keynote lecture on functional neuroimaging of reward and aversion processing in patients with PTSD by **Prof. Igor Elman** of Cooper Medical School of Rowan University, Camden, NJ. The following oration on biophotonic technologies for advanced eye diagnostics was delivered by **Dr. Boris Gramatikov** of Johns Hopkins University, Baltimore, MD. The final keynote oration was delivered by **Dr. Ronal Eisenberg** of Harvard Medical School, Boston on 'challenging' conventional wisdom. The above keynote lectures were followed by workshop on Interventional Radiology presented by **Dr. Vinicius Fornazari** of Federal University of São Paulo, Brazil and **Dr. Gloria Maria Martinez Salazar** of Massachusetts General Hospital, Boston, MA**.** The day concluded with poster presentations and happy hour.

Day 2 *(November 21, 2019)*: Day 2 of the conference started with a keynote lecture and technical sessions on CAD & Machine Learning; Neuroradiology; Cardiac Imaging; Medical Imaging and Analysis. The conference hosted another hands-on workshop on Point of Care Ultrasound organized by **Dr. Hamid Shokoohi** of Massachusetts General Hospital, Boston, MA.

The day started with the keynote talk by **Dr. Kenji Suzuki** of Tokyo Institute of Technology, Tokyo, Japan, on the deep learning artificial intelligence (AI) in medical image processing and on computer-aided diagnosis. The conference moved forward to technical session on CAD and Machine Learning chaired by **Dr. Tina Kapur** of Brigham and Women's Hospital, Boston, MA. Neuroradiology session was chaired by **Dr. Robert L. Savoy** of Massachusetts General Hospital, Boston, MA and **Dr. Mei-Hua Hall** of Harvard Medical School, Boston, MA. Cardiac Imaging Session was Chaired by **Dr. Joshua I. Barzilay** of Emory University School of Medicine, Atlanta, GA and **Dr. Hamid Shokoohi**, of Massachusetts General Hospital, Boston, MA. Last session of the day was on medical imaging and analysis. It was chaired by **Dr. Andrea L. Gropman** of Children's National Medical Center, Washington DC and **Dr. Gonzalo Vegas Sanchez-Ferrero** of Harvard Medical School, Boston, MA.

Day 3 *(November 22, 2019)*: Day 3 continued with technical sessions on Cancer Imaging and Nuclear Medicine; Diagnostic Imaging. Cancer Imaging and Nuclear Medicine session was chaired by **Dr. Eva C. Gombos** of Brigham and Women's Hospital, Boston, MA and **Dr. Rajendra Badagaiyan** of UT Health, San Antonio, TX. The session on Diagnostic Imaging was chaired by **Dr. Keith Strauss** of University of Cincinnati School of Medicine, Cincinnati, OH and **Dr. Rajendra Badagaiyan** of UT Health, San Antonio, TX. The conference concluded at lunch time.

Poster/Virtual Presentations: MICR-2019 had an interactive poster session. It provided an opportunity to speakers who could not physically attend the meeting, to showcase their work as e-posters or present via skype.

Workshops: MICR 2019 organized two workshops one each on Day 1 and 2. The workshop organizied on Day 1 was titled Interventional Radiology Experience: Interventional Radiology Hands on Simulator Workshop and was organized by **Dr. Vinicius Fornazari** of Federal University of São Paulo, Brazil and **Dr. Gloria Maria Martinez Salazar** of Massachusetts General Hospital, Boston, MA. The workshop on Day 2 was titled Advanced Point-of Care Ultrasound-A Trend in Medical Care: Ultrasound Applications in Emergency and Critical Care Hands-on Workshop. It was organized by **Dr. Hamid Shokoohi** of Massachusetts General Hospital, Boston, MA.

We thank the organizing committee members, keynote speakers, featured speakers, students and attendees for their participation and cooperation throughout the event. The United Scientific Group is honored to host such a successful gathering comprising of remarkable people in the field of Medical Imaging.

Conference Proceedings

Abstract of the work presented at the conference will be published in the **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, methods and tools for image analysis. We encourage scientists to publish their original research, reviews, case reports, rapid communications, editorial comments, and letters to the editor on clinical and research aspects of all imaging modalities.