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Guang-Hong Chen
Hilde Bosmans
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2019 Medical Imaging Award Recipients

Robert F. Wagner Best Student Paper Award

Robert F. Wagner was an active scientist in the SPIE Medical Imaging meeting, starting with the first meeting in 1972 and continuing throughout his career. He ensured that the BRH, and subsequently the CDRH, was a sponsor for the early and subsequent Medical Imaging meetings, helping to launch and ensure the historical success of the meeting. The Robert F. Wagner All-Conference Best Student Paper Award (established 2014) is acknowledgment of his many important contributions to the Medical Imaging meeting and his many important advances to the field of medical imaging.



This award is co-sponsored by:



The Medical Image Perception Society

SPIE.

2019 Recipients:

First Place: **Volume-of-interest imaging using multiple aperture devices** (10984-74)
Wenying Wang, Grace J. Gang, Jeffrey H. Siewerdsen, Joseph W. Stayman, Johns Hopkins University (United States)

Second Place: **Surgical aid visualization system for glioblastoma tumor identification based on deep learning and in-vivo hyperspectral images of human patients** (10951-35)

Himar Fabelo, The University of Texas at Dallas (USA) and Universidad of Las Palmas de Gran Canaria (Spain); Martin Halicek, The University of Texas at Dallas (United States) and Georgia Institute of Technology & Emory University School of Medicine (United States); Samuel Ortega, Universidad de Las Palmas de Gran Canaria (Spain); Adam Szolna, Jesus Morera, Hospital Universidad de Gran Canaria Doctor Negrin (Spain); Roberto Sarmiento, Universidad of Las Palmas de Gran Canaria (Spain); Gustavo M. Callicó, Universidad de Las Palmas de Gran Canaria (Spain); Baowei Fei, The University of Texas at Dallas (United States) and The University of Texas Southwestern Medical Center (United States)

Physics of Medical Imaging Student Paper Awards sponsored by GE Healthcare

Winner: **Volume-of-interest imaging using multiple aperture devices** (10948-74)
Wenying Wang, Grace J. Gang, Jeffrey H. Siewerdsen, Joseph W. Stayman, Johns Hopkins University (United States)

Runner-up: **A novel mammographic fusion imaging technique: the first results of tumor tissues detection from resected breast tissues using energy-resolved photon counting detector**

(10948-3) Mariko Sasaki, Shuji Koyama, Yoshie Kodera, Reina Suzuki, Hiroto Kimura, Nagoya University Graduate School of Medicine (Japan); Hiroko Nishide, Gifu University of Medical Science (Japan); Mitsuhiro Mizutani, Megumi Watanabe, Naoko Yoshida, Mikawa Breast Cancer Clinic (Japan); Hiroaki Hayashi, Natsumi Kimoto, Kanazawa University (Japan); Shuichiro Yamamoto, Daisuke Hashimoto, Masahiro Okada, JOB Corporation (Japan)

Runner-up: **Radon inversion via deep learning** (10948-35); Ji He, Jianhua Ma Sr., Southern Medical University (China)

Physics of Medical Imaging Poster Presentation Awards sponsored by Siemens Healthineers

Cum Laude: **Visibility guided differential phase contrast denoising** (10948-177) Brandon J. Nelson, Mayo Clinic (United States); Thomas Koenig, Mayo Clinic (United States) and Ziehm Imaging GmbH (Germany); Elisabeth R. Shanblatt, Shuai Leng, Cynthia H. McCollough, Mayo Clinic (United States)

Honorable Mention: **Quantifying truth-based change in radiomics features between CT imaging conditions** (10948-111) Jocelyn Hoye, Duke Univ. Medical Ctr. (United States); Justin Solomon, Ehsan Samei, Duke Univ. (United States)

Honorable Mention: **Development of a real-time scattered radiation display for staff dose reduction during fluoroscopic interventional procedures** Jonathan Troville, Joshua Kilian-Meneghin, Chao Guo, Stephen Rudin, Daniel R. Bednarek, Univ. at Buffalo (United States) and Canon Stroke and Vascular Research Ctr. (United States) (10948-88)