

The Second International Workshop on Thoracic Image Analysis

8th of October 2020

All times are given in UTC.

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| 09:00-09:10 | Opening and Workshop Presentation |
| 09:10-11:10 | Session I: Extended Orals (Asia and Europe) |
| 09:10-09:40 | Lung Cancer Tumor Region Segmentation Using Recurrent 3D-DenseUNet <i>Uday Kamal, Abdul Muntakim Rafi, Rakibul Hoque, Jonathan Wu, and Md. Kamrul Hasan</i> |
| 09:40-10:10 | Semi-supervised Virtual Regression of Aortic Dissections Using 3D Generative Inpainting <i>Antonio Pepe, Gabriel Mistelbauer, Christina Gsaxner, Jianning Li, Dominik Fleischmann, Dieter Schmalstieg, and Jan Egger</i> |
| 10:10-10:40 | Deep Group-wise Variational Diffeomorphic Image Registration <i>Tycho F.A. van der Ouderaa, Ivana Isgum, Wouter Veldhuis, and Bob D. de Vos</i> |
| 10:40-11:10 | CovidDiagnosis: Deep Diagnosis of Covid-19 Patients using Chest X-rays <i>Kushagra Mahajan, Monika Sharma, Lovekesh Vig, Rishab Khincha, Soundarya Krishnan, Adithya Niranjan, Tirtharaj Dash, Ashwin Srinivasan, and Gautam Shroff</i> |
| 11:10-11:20 | Break |
| 11:20-11:50 | Session II: Orals (Asia and Europe) |
| 11:20-11:35 | Two-stage Mapping-Segmentation Framework for Delineating COVID-19 Infections from Heterogeneous CT Images <i>Tong Li, Zhuochen Wang, Yanbo Chen, Lichi Zhang, Yaozong Gao, Feng Shi, Dahong Qian, Qian Wang, and Dinggang Shen</i> |
| 11:35-11:50 | A Weakly Supervised Deep Learning Framework for COVID-19 CT Detection and Analysis <i>Ophir Gozes, Maayan Frid-Adar, Nimrod Sagie, Asher Kabakovitch, Dor Amran, Rula Amer, and Hayit Greenspan</i> |
| 11:50-12:00 | Break |
| 12:00-13:00 | Keynote: Dr. Samuel Ash <i>Brigham and Women's Hospital, Harvard Medical School</i> |
| 13:00-14:00 | Lunch Break |

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| 14:00-16:00 | Session III: Extended Orals (Americas and Europe) |
| 14:00-14:30 | MRI to CTA translation for pulmonary artery evaluation using CycleGANs trained with unpaired data <i>Maialen Stephens Txurio, Raúl San José Estépar, Jesús Ruiz-Cabello, Ignacio Arganda-Carreras, Iván Macía, and Karen López-Linares Roman</i> |
| 14:30-15:00 | 3D Probabilistic Segmentation and Volumetry from 2D projection images <i>Athanasios Vlontzos, Samuel F Budd, Benjamin Hou, Daniel Rueckert, and Bernhard Kainz</i> |
| 15:00-15:30 | Registration-Invariant Biomechanical Features for Disease Staging of COPD in SPIROMICS <i>Muhammad Faizyab Ali Chaudhary, Yue Pan, Di Wang, Sandeep Bodduluri, Surya P. Bhatt, Alejandro P. Comellas, Eric A. Hoffman, Gary E. Christensen, and Joseph M. Reinhardt</i> |
| 15:30-16:00 | 3D deep convolutional neural network-based ventilated lung segmentation using multi-nuclear hyperpolarized gas MRI <i>Joshua R. Astley, Alberto M. Biancardi, Paul J.C. Hughes, Laurie J. Smith, Helen Marshall, James Eaden, Jody Bray, Nicholas D. Weatherley, Guilhem J. Collier, Jim M. Wild, and Bilal A Tahir</i> |
| 16:00-16:15 | Break |
| 16:15-17:15 | Session IV: Orals (Americas and Europe) |
| 16:15-16:30 | Multi-cavity heart segmentation in non-contrast non-ECG gated CT scans with F-CNN <i>Rafael Moreta-Martinez, Gonzalo Vegas Sanchez-Ferrero, Lasse Andresen, Jakob Qvortrup Holsting, and Raúl San José Estépar</i> |
| 16:30-16:45 | Functional-Consistent CycleGAN for CT to Iodine Perfusion Map Translation <i>Pietro Nardelli, Rubén San José Estépar, Farbod N Rahaghi, and Raúl San José Estépar</i> |
| 16:45-17:00 | Deep Reinforcement Learning for Localization of the Aortic Annulus in Patients with Aortic Dissection <i>Marina Codari, Antonio Pepe, Gabriel Mistelbauer, Domenico Mastrodicasa, Shannon Walters, Martin J Willeminck, and Dominik Fleischmann</i> |
| 17:00-17:15 | Can we trust deep learning based diagnosis? The impact of domain shift in chest radiograph classification <i>Eduardo H P Pooch, Pedro Ballester, and Rodrigo C. Barros</i> |