

ISBI 2018

Omni Shoreham Hotel, Washington, DC, USA

4-7 April 2018

	Track 1	Track 2	Track 3	Track 4
Room	Palladian	Empire	Diplomat	Congressional

Times	Wednesday April 4			
07:00 - 17:30	Registration (Foyer)			
08:30 - 10:30	Challenge 1 Part I: 3D Validation of Tractography with Experimental MRI (Chair: Bennett Landman)	Tutorial 2 Part I: Applying Deep Learning to Medical Image Analysis Problems (Organizers: Alexandros Karargyris & Yaniv Gur)	Challenge 2 Part I: Diabetic Retinopathy Segmentation and Grading Challenge (Chair: Prasanna Porwal)	Tutorial 1 Part I: Optimal Transport in Biomedical Imaging (Organizers: Liam Cattell & Soheil Kolouri & Gustavo Rohde)
10:30 - 11:00	Coffee Break (Foyer)			
11:00 - 12:30	Challenge 1 Part II: 3D Validation of Tractography with Experimental MRI (Chair: Bennett Landman)	Tutorial 2 Part II: Applying Deep Learning to Medical Image Analysis Problems (Organizers: Alexandros Karargyris & Yaniv Gur)	Challenge 2 Part II: Diabetic Retinopathy Segmentation and Grading Challenge (Chair: Prasanna Porwal)	Tutorial 1 Part II: Optimal Transport in Biomedical Imaging (Organizers: Liam Cattell & Soheil Kolouri & Gustavo Rohde)
12:30 - 13:30	Lunch Break (On Own)			
13:30 - 15:00	Challenge 3 Part I: Lung Nodule Malignancy Prediction Based on Sequential CT Scans (Chairs: Keyvan Farahani & Yoganand Balagurunathan)	Tutorial 5 Part I: Biomedical Image Analysis in Python and R using SimpleITK Jupyter Notebooks (Organizers: Hans Johnson & Bradley Lowekamp & Ziv Yaniv)	Tutorial 3 Part I: Cancer Imaging Phenomics Toolkit (Organizers: Spyridon Bakas & Sarthak Pati)	Tutorial 4 Part I: Elastography and Photoacoustic Imaging (Organizers: Abbas Samani & Hassan Rivaz & Mohammad Mehrmohamadi)
15:00 - 15:30	Coffee Break (Foyer)			
15:30 - 17:30	Challenge 3 Part II: Lung Nodule Malignancy Prediction Based on Sequential CT Scans (Chairs: Keyvan Farahani & Yoganand Balagurunathan)	Tutorial 5 Part II: Biomedical Image Analysis in Python and R using SimpleITK Jupyter Notebooks (Organizers: Hans Johnson & Bradley Lowekamp & Ziv Yaniv)	Tutorial 3 Part II: Cancer Imaging Phenomics Toolkit (Organizers: Spyridon Bakas & Sarthak Pati)	Tutorial 4 Part II: Elastography and Photoacoustic Imaging (Organizers: Abbas Samani & Hassan Rivaz & Mohammad Mehrmohamadi)
18:00 - 20:00	Student Reception			

Times	Thursday April 5
07:00 - 18:00	Registration (Foyer)

08:30 - 08:40	Opening Remarks (Regency) (General Chairs)			
08:40 - 09:30	Plenary 1 (Regency): Samuel Achilefu Surgical Glasses and Probes for Image-Guided Cancer Surgery (Chair: Amir Amini)			
09:30 - 10:00	Coffee Break (Foyer)			
10:00 - 11:30	Special Session: Computational Mechanobiology (Chairs: Maria Ledesma- Carbayo & Arrate Munoz- Barrutia)	Oral Session: Brain Connectivity Analysis (Chairs: Guido Gerig & Cesar Caballero Gaudes)	Oral Session: Computer Aided Diagnosis I (Chairs: Stephen Aylward & Johnny Tam)	Oral Session: Image Reconstruction I (Chairs: Matthews Jacob & Jeff Fessler)
11:30 - 12:30	Poster Session (Ambassador): Brain Imaging and Analysis I Cancer Imaging and Analysis I Computer Aided Diagnosis II Image Reconstruction and Restoration I Microscopic Imaging and Analysis I			
12:30 - 13:30	Lunch Break (On Own)			
13:30 - 14:30	Plenary 2 (Regency): Kim Butts-Pauly Transcranial Magnetic Resonance Guided Focused Ultrasound (Chair: Julia Schnabel)			
14:30 - 16:00	Special Session: Image Analysis of the Developing Brain (Chairs: Pim Moeskops & Ivana Isgum & Josien Pluim)	Oral Session: Cardiac Image Analysis (Chairs: Julia Schnabel & Jim Duncan)	Oral Session: Microscopic Imaging (Chairs: Michael Unser & Patrick Boutheimy)	Oral Session: Lung Image Analysis (Chairs: Elsa Angelini & Zhaozheng Yin)
16:00 - 16:30	Coffee Break (Foyer)			
16:30 - 18:00	Oral Session: Neuroimage Analysis I (Chairs: Christos Davatzikos & Gang Li)	Oral Session: Deep Image Segmentation I (Chairs: Hayit Greenspan & Gustavo Rohde)	Oral Session: Histological Image Analysis I (Chairs: Karl Rohr & Josien Pluim)	Oral Session: Functional Imaging and Analysis (Chairs: Dzung Pham & Christian Barillot)
19:00 - 21:00	Welcome Reception			

Times	Friday April 6			
07:00 - 18:00	Registration (Foyer)			
08:30 - 09:30	Plenary 3 (Regency): Peter Basser Imaging Microstructure and Dynamics with MR: From Macro to Nano (Chair: Michael Unser)			
09:30 - 10:00	Coffee Break (Foyer)			
10:00 - 11:30	Special Session: Integration of Multiscale Heterogenous Imaging and Genomic Data (Chairs: Vince Calhoun & Yu- Ping Wang)	Oral Session: Brain Image Segmentation (Chairs: Ali Gholipour & Jose Dolz)	Oral Session: Cell Image Segmentation (Chairs: Martin Maska & Ihor Smal)	Oral Session: Image Reconstruction II (Chairs: Leslie Ying & Jong Chul Ye)

11:30 - 12:30	Poster Session (Ambassador): Brain Imaging and Analysis II Cancer Imaging and Analysis II Cardiac and Vascular Image Analysis Deep Image Segmentation III Microscopic Imaging and Analysis II Shape Analysis and Modeling			
12:30 - 13:30	Lunch Break (On Own)			
13:30 - 13:40	IEEE Fourier Award (Regency)			
13:40 - 14:30	Plenary 4 (Regency): Anne Carpenter Tackling World Health Problems Through High-Throughput Microscopy Imaging and Analysis (Chair: Scott Acton)			
14:30 - 16:00	Special Session: Ultrasonic Imaging-Based Tissue Characterization (Chair: Roberto Lavarello)	Oral Session: Deep Image Analysis I (Chairs: Tanveer Syeda-Mahmood & Nathan Lay)	Oral Session: Brain Image Analysis (Chairs: Archana Venkataraman & Li Shen)	Oral Session: Image Registration (Chairs: Jan Kybic & Tom Vercauteren)
16:00 - 16:30	Coffee Break (Foyer)			
16:30 - 17:30	Poster Session (Ambassador): Brain Imaging and Analysis III Cancer Imaging and Analysis III Deep Image Analysis III Microscopic Imaging and Analysis III Tracking and Motion Analysis Ultrasound Imaging and Analysis I			
17:30 - 18:00	Challenges Summary (Regency) (Chairs: Adrienne Mendrik & Daniel Weller)			
18:00 - 19:30	FDA Workshop (Chair: Kyle Myers)	NIH/NIBIB Workshop (Chair: Behrouz Shabestari)		

Times	Saturday April 7			
08:00 - 14:00	Registration (Foyer)			
08:30 - 09:30	Plenary 5 (Regency): Laura Waller Computational Imaging for 3D Microscopy (Chair: Ron Summers)			
09:30 - 10:00	Coffee Break (Foyer)			
10:00 - 11:30	Special Session: Smart Imaging Systems (Chairs: Sai Prasad Ravishankar & Greg Ongie & Jeffrey Fessler)	Oral Session: Deep Image Segmentation II (Chairs: Marleen de Bruijne & Jiamin Liu)	Oral Session: Functional Brain Imaging (Chairs: Philippe Ciuciu & Daniel Weller)	Oral Session: Computational Imaging (Chairs: Justin Haldar & Jean-Christophe Olivo-Marin)

11:30 - 12:30	Poster Session (Ambassador): Dynamic and Functional Imaging Histological Image Analysis II Image Reconstruction and Restoration II Image Segmentation Neuroimaging and Analysis Retinal Imaging and Analysis Ultrasound Imaging and Analysis II			
12:30 - 13:30	Lunch Break (On Own)			
13:30 - 14:00	Student Awards (Regency)			
	ISBI 2019 Preview (Regency)			
	Closing Remarks (Regency)			
14:00 - 15:30	Special Session: Imaging for Developing Countries (Chairs: Miguel Gonzalez Ballester & Erin Girard)	Oral Session: Deep Image Analysis II (Chairs: Mitko Veta & Jianhua Yao)	Oral Session: Neuroimage Analysis II (Chairs: Tianming Liu & Alexandre Falcão)	Oral Session: Microscopic Image Analysis (Chairs: Thomas Walter & Gavriil Tsechpenakis)