

2014 Summer School Schedule

Tuesday, May 27 (McConnell Engineering, room 437)

Time	Title	Speaker
1:00 - 1:10	Welcoming remarks	Prof. Kaleem Siddiqi, <i>School of Computer Science, McGill University, Program Director of CREATE-MIA</i>
1:10 - 2:10	Image processing in clinical trials	Dr. Haz-Edine Assemlal, <i>NeuroRx Research</i>
2:10 - 2:40	Pre-operative planning in image guided surgery of deep brain structures	Halleh Ghaderi, <i>Biomedical Engineering, McGill University</i>
2:40 - 2:45	TBA	Andrew Doyle, <i>Electrical and Computer Engineering, McGill</i>
2:45 - 3:00	<i>BREAK</i>	
3:00 - 3:30	Monte Carlo simulation of light propagation in heterogenous media and filling of the missing data in a 2D image	Zeshan Yao, <i>Biomedical Engineering, McGill University</i>
3:30 - 4:00	Characterization and compensation of image deformations arising from the variation of probe pressure on the skin in 3D ultrasound	Jawad Dahmani, <i>Electrical Engineering, ÉTS</i>
4:00 - 4:30	Detecting White Matter Hyperintensities using Markov Random Fields	Mahsa Dadar, <i>Biomedical Engineering, McGill University</i>
4:30 - 4:35	TBA	Maor Zaltzhendler, <i>Electrical & Computer Engineering, McGill University</i>
4:35 - 4:40	Learning feature-based matching for image registration	Chris Donnelly, <i>Electrical & Computer Engineering, McGill University</i>
4:40 - 5:00	Introduction to Brain Tractography	Etienne St-Onge, <i>Computer Science, Université de Sherbrooke</i>

Wednesday, May 28 (McConnell Engineering, room 437)

Time	Title	Speaker
9:00 - 9:30	Non Local Spatial and Angular Matching: a new denoising technique for diffusion MRI	Samuel St-Jean, <i>Computer Science, Université de Sherbrooke</i>
9:30 - 10:00	Spectrotemporal analysis of the visual cortex response to natural images and their phase-shuffled versions	Sepide Movaghati, <i>Biomedical Engineering, McGill University</i>
10:00 - 10:30	Restoration of Fragmentary Cardiac Diffusion Volumes	Emmanuel Piuze-Phaneuf, <i>School of Computer Science, McGill University</i>
10:30 - 11:00	A unified assessment of fully automated hippocampus segmentation methods	Azar Zandifar, <i>Biomedical Engineering, McGill University</i>
11:00 - 11:15	<i>BREAK</i>	
11:15 - 11:45	Natural versus Unnatural Stimulation of the Early Visual System	Shahab Kadkhodaeian-Bakhtiari, <i>Integrated Program in Neuroscience, McGill University</i>
11:45 - 12:15	Visualizing positional uncertainty in freehand 3D ultrasound	Houssein-Eddine Gueziri, <i>Electrical Engineering, ÉTS</i>
12:15 - 12:35	Dynamic 3D Facial Expression Capture and Analysis	Babak Samari, <i>School of Computer Science, McGill University</i>
12:35 - 2:00	<i>LUNCH</i>	
2:00 - 2:15	Election of Student Representative to CREATE-MIA Program Committee	
2:15 - 3:15	<u>Technical Session 1</u> - Introduction to the Project, organization of the groups, etc.	
3:15 - 3:45	<u>Technical Session 2</u> - Overview of the Tools e.g. SVN, TRAC	
3:45 - 4:00	<i>BREAK</i>	
4:00 - 4:30	<u>Technical Session 3</u> - Language Oriented Tutorial	
4:30 - 5:00	<u>Technical Session 4</u> - Visualization Orientation	

Thursday, May 29 (Trottier Building, 3630 University St., Room 3120)

Time	
9:00 - 12:00	HACKATHON
12:00 - 2:00	<i>LUNCH</i>
2:00 - 7:00	HACKATHON

Friday, May 30 (Trottier Building, 3630 University St., Room 3120)

Time	
9:00 - 12:00	HACKATHON
12:00 - 1:00	<i>LUNCH</i>
1:00 - 4:00	HACKATHON
4:00 - 5:00	Presentation of Hackathon Results to Panel