



Session : Deep Learning

Room **Zaffiro** / Organizer **Sungchul Lee** (Yonsei U.), **Ha Young Kim** (Ajou U.)

Day 1 / January 8 / Monday

Mon. / 8 Jan.	Room : Zaffro
16:00-18:30	Registration
18:00-19:00	Beverage & Nut & Coffee
19:00-19:30	Tutorial on Machine Learning Overview of Machine Learning / Ha Young Kim
19:30-21:00	Tutorial on Machine Learning Basics of Deep Learning / Kang Cheol Kim, Sungmin Lee, Bukweon Kim

Day 2 / January 9 / Tuesday

Tue. / 9 Jan.	Room : Zaffro
08:00-08:20	Coffee & Cookie
08:20-09:00	* Keynote Talk 인공지능과 영상의학 / Byoung Wook Choi
09:05-09:35	The Need for Automated 3D Cephalometry & Machine Learning / Sanghwy Lee
09:45-10:15	Dictionary-based Sense Embedding / Byungkon Kang
10:20-10:50	Deep Learning Based Medical Imaging Applications / June-Goo Lee
18:00-19:00	Beverage & Nut & Coffee
19:00-19:50	Tutorial on Machine Learning 기초강화학습 / Sungchul Lee
20:00-21:00	Tutorial on Machine Learning 초짜 대학원생 입장에서 이해하는 Generative Adversarial Nets / Jaejun Yoo

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Study & Discussion Room : Granato 2F



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Day 3 / January 10 / Wednesday

Wed. / 10 Jan.	Room : Zaffro
08:00-08:20	Coffee & Cookie
08:20-09:00	* Keynote Talk Deep Learning for Biomedical Image Reconstruction / Jong Chul Ye
09:10-09:40	Deep Learning for Medical Image Analysis / Kyuhwan Jung
09:45-10:15	Human Intelligence and Deep learning / Hae-Jeong Park
10:20-10:50	Deep learning for nuclear medicine imaging / Jae Sung Lee
18:00-19:00	Beverage & Nut & Coffee
19:00-19:50	Tutorial on Machine Learning Practical Deep Learning Techniques 1 / Bukweon Kim, Hwa Pyung Kim
20:00-21:00	Tutorial on Machine Learning Deep Learning Techniques 2 / Hwa Pyung Kim, Chang Min Hyun

Day 4 / January 11 / Thursday

Thu. / 11 Jan.	Room : Zaffro
08:10-08:30	Coffee & Cookie
08:30-09:00	Numerical Observer: Solution for Image Quality Assessment of Nonlinear Reconstruction / Jongduk Baek
09:00-09:30	Deep Learning Application for Cervical Spine Injury Detection / Dosik Hwang
09:40-10:00	Synthetic MRI using Deep Learning Approach / Kanghyun Ryu
10:00-10:20	Deep learning for CT Sinogram Correction / Sung Min Lee
10:20-10:40	Deep learning for Medical Imaging / Hwa Pyung Kim

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Recent progress on Inverse Problems & A3 Meeting

Room **Zaffiro** / Organizer **Won-Kwang Park** (Kookmin U.), **Seong-Ho Son** (ETRI)

Day 3 / January 10 / Wednesday

Wed. / 10 Jan.	Room : Zaffro
	Microwave tomography with real experiments
13:30-13:50	Real-time anomaly detection in microwave tomography / Won-Kwang Park (Kookmin U.)
13:50-14:10	전파 집속 열치료를 위한 마이크로파 이미징 기술 / Kwang-Jae Lee (ETRI)
14:10-14:30	보안검색을 위한 마이크로파 이미징 최신기술 소개 / Bo-Ra Kim (ETRI)
	Electrical Impedance Tomography with real experiments
14:40-15:00	Abdominal Electrical Impedance Tomography / Minha Yoo (NIMS)
	A3 Meeting
	A3 Chinese, Japanese, Korean speakers
15:00-15:20	A practical reconstruction method based on the transmission eigenvalues for electromagnetic scattering problem / Tiexiang Li (Southeast U.)
15:20-15:40	On image restoration from random sampling noisy frequency data with regularization / Xiaoman Liu (Southeast U.)
15:40-16:00	The numerical implementations on fluorescence imaging / Chunlong Sun (Southeast U.)
16:00-16:20	An inverse random source problem in piezoelectric equations / Yibin Ding (Zhejiang U.)
16:30-16:50	On the effect of the ring apertures for the back-projection photoacoustic tomography / Hongxiang Lin (U. of Tokyo)
16:50-17:10	Inverse source problem for a magnetohydrodynamics system via Carleman estimate / Xinchu Huang (U. of Tokyo)
17:10-17:30	Inverse problem related to the St. Venant equation for one dimensional water flow / Hiroshi Takase (U. of Tokyo)
17:40-18:00	Handheld Electrical Impedance Tomography / Ariungerel Jargal (Yonsei U.)

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Mobile Ultrasound & Machine Learning

Room **Zaffiro** / Organizer **Chi Young Ahn** (NIMS), **Min Kim** (Sogang U.)

Day 2 / January 9 / Tuesday

Tue. / 9 Jan.	Room : Zaffro
14:00-14:40	* Keynote Talk Recent progress and current issues on Mobile Ultrasound Imaging / Tai-Kyong Song
14:40-15:10	The need for Automation of Ultrasonographic Fetal Biometry / Ja Young Kwon
15:20-15:40	Automated object tracking and identification / Chi Young Ahn
15:40-16:00	Learning for Mobile Ultrasound Image / Min Kim
16:00-16:20	Fetal Biometry / Jaeseong Jang
16:30-16:50	Deep Learning based Measurement for Fetal Biometry 1 / Bukweon Kim
16:50-17:10	Deep Learning based Measurement for Fetal Biometry 2 / Kang Cheol Kim

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