

# KAIST/SNU Joint Workshop on Sparse Data Recovery and its Application to Medical Imaging

Sponsored by the Department of Brain and Cognitive Sciences (WCU), SNU

November 9, 2010 SNU Dental Hospital 807

## Sparse Data Recovery 9:40-11:40AM

Professor Youngjo Lee, Dept. of Statistics, SNU  
*Likelihood approach to large-scale multiple testing*

이동환, Dept. of Statistics, SNU  
*Sparse estimation in partial least squares and PCA*

Professor Jong Chul Ye, Dept. of Bio. and Brain Engineering, KAIST  
Compressive sensing for bio imaging applications: overview of researches at KAIST

## Topological Data Recovery 1:00-3:00PM

Professor Peter T. Kim, Dept. of Math. and Stat., University of Guelph, Canada  
*Persistent Homology and topological data analysis*

Dr. Hyekyoung Lee, Dept. of Nuclear Medicine, and Brain and Cognitive Sciences, SNU  
*Sparse brain network modeling via Rips filtration*

Seung-Goo Kim, Dept. of Brain and Cognitive Science, SNU  
*Topological structure recovery from sparse data*

## Medical Imaging Applications 3:20-6:00PM

이강주, Dept. of Bio. and Brain Engineering, KAIST  
*Data-driven fMRI analysis using sparse dictionary learning*

Dr. Soo Mee Kim, Dept. of Nuclear Medicine, SNU  
*Compressed Sensing PET Image Reconstruction*

정홍, Dept. of Bio. and Brain Engineering, KAIST  
*Compressive sensing for dynamic MRI*

김종민, Dept. of Bio. and Brain Engineering, KAIST  
*Multichannel compressive sensing and its applications*

sparse brain network



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