Center for Molecular Spectroscopy and Dynamics, IBS-Korea University

IBS Center for Molecular Spectroscopy and Dynamics

Seminar

- **SPEAKER**
  Prof. Jongho Lee (Department of Electrical and Computer Engineering, Seoul National University)

- **TITLE**
  Deep learning reconstruction for neuroimaging

- **ABSTRACT**
  Over the last a few years, deep learning has become a tool for innovation in every corner of engineering. In this talk, I will explain how my lab has transformed into a deep learning neuroimaging lab and highlight a few research outcomes. So far, we have successfully redesigned conventional MRI reconstruction such as T2 mapping, quantitative susceptibility mapping (QSM), myelin water imaging, and parallel imaging using deep learning. Pros and cons of these methods will be discussed with potential pitfalls in applying them for neuroimaging. Additionally, another category of deep learning, machine-designed MRI sequence, will be introduced with an example of a machine-designed multi-band RF pulse.

- **DATE AND VENUE**
  December 6, 2022 (Tuesday, 10:30 - 12:00)
  Seminar Room A (116)

- **LANGUAGE**
  Korean

- **INVITED BY**
  Associate Director Wonshik Choi