

Special Topics in Mechano-Informatics II

Wednesday 14:55-16:40

Room: Faculty of Engineering Bldg.2 Room (~~#233-確認中~~)

- Course Objectives/Overview

The goal of this course is to provide advanced topics in the field of Machine Learning, Artificial Intelligence and Big Data. All lectures are members of RIKEN Center for Advanced Intelligence Project (AIP).

- Keywords

Machine Learning, Artificial Intelligence, Big Data

- Teaching Methods

Classroom lecture

- Method of Evaluation

Homeworks

Class Participation

- Schedule

2020/04/08, Masashi Sugiyama, Overview of AI Research and Introduction of RIKEN-AIP

2020/04/15, Yasuo Tabei, Succinct Data structure for Scalable Knowledge Discoveries

2020/04/22, Minh Ha Quang, Geometrical Methods in Machine Learning and Applications (1)

2020/05/07, Minh Ha Quang, Geometrical Methods in Machine Learning and Applications (2)

2020/05/13, Pierre Alquier, Introduction to Variational Bayes

2020/05/20, Pierre Alquier, Basics of Online Optimization

2020/05/27, Kentaro Inui, Natural Language Understanding

2020/06/03, Lin Gu, Artificial Intelligence in Medicine

2020/06/10, Tomasz Rutkowski, AI and human brain: Brain-computer Interface (BCI) Applications

2020/06/17, Tomasz Rutkowski, AI for Time-series: Healthcare, Multimedia VR/AR, and FinTech Applications

2020/06/24, Tatsuya Harada, Image and Video Recognition Using Machine Learning

2020/07/01, Qibin Zhao, Tensor Factorization and Tensor Networks (1): Basic Model and Algorithm

2020/07/08, Qibin Zhao, Tensor Factorization and Tensor Networks (2): Applications to Signal Processing and Machine Learning

- Required Textbook

non

- Reference Books

機械学習プロフェッショナルシリーズ, 講談社

- Course-Related Websites

<http://www.riken.jp/en/research/labs/aip/>

- E-mail Address

Lec-FAI1@ai.u-tokyo.ac.jp