[Program]

Sunday, September 10th, 2017

9:30—10:20   REGISTRATION

MORNING SESSION (Chair: Koji HUKUSHIMA)

10:20—10:40   Opening Remark
                Masato OKADA
                Graduate School of Frontier Sciences, The University of Tokyo

10:40—11:20   A General Framework for Sparse Variable Selection: Exhaustive Search with Density-of-States Estimation
                Yasuhiko IGARASHI
                Research and Service Division of Materials Data and Integrated System, National Institute for Materials Science

11:20—12:00   Estimating Causal Effects Using Triplet Orderings: Scale Free Graphs and Dependence on the Node Order
                Alexander K HARTMANN
                Institute of Physics, University of Oldenburg

12:00—14:00   LUNCH

AFTERNOON SESSION 1 (Chair: Kenji FUKUMIZU)

14:00—14:40   Reflectance Spectra of Asteroids and Meteorites: their Classifications and Statistical Comparisons
                Hideaki MIYAMOTO
                Department of Systems Innovation, The University of Tokyo

14:40—15:20   Optimizing Change Detection for Planetary Remote Sensing Datasets
                Reid PARSONS
                Earth and Geographic Sciences Department, Fitchburg State University

15:20—15:40   COFFEE BREAK

15:40—16:20   Taxonomy Matching between Asteroids and Meteorites: Supervised Clustering Approach
Kenji FUKUMIZU
The Institute of Statistical Mathematics

16:20—17:00   Spatially Continuous Dynamic Factor Modeling with Basis Expansion Using L_2 Penalized Likelihood
Shotaro AKAHO
Human Informatics Research Institute, National Institute of Advanced Industrial Science and Technology

Monday, September 11th, 2017

MORNING SESSION (Chair: Tomohisa OKADA)

10:00—10:40   Selective Isotope Labeling Strategy and Computational Interpretation of Spectra for Protein NMR Analyses
Takuma KASAI
Quantitative Biology Center, RIKEN

10:40—11:20   Fully Automated Assignment of Methyl Resonances of a 36 kDa Protein Dimer from Sparse NOESY Data
Iva PRITIŠANAC
Institute of Biophysical Chemistry, Center for Biomolecular Magnetic Resonance, Goethe University Frankfurt am Main

11:20—12:00   High-Performance Data Analysis on the Big Trajectory Data of Cellular Scale All-Atom Molecular Dynamics Simulations
Isseki YU
Theoretical Molecular Science Laboratory, iTHES Research Group, RIKEN

12:00—14:00   LUNCH

14:00—14:40   Challenges and Opportunities in Connecting Simulations with Experiments via Molecular Dynamics of Cellular Environments
Michael FEIG
Department of Biochemistry and Molecular Biology, Michigan State University

14:40—15:20   TimeTubes: Visual Exploration of Observed Blazer Datasets
Issei FUJISHIRO
Center for Information and Computer Science, Keio University

15:20—15:40   COFFEE BREAK

AFTERNOON SESSION 2 (Chair: Issei FUJISHIRO)

15:40—16:20   Zonal Reduced-Order Modelling toward Prediction of Transitional Flow Fields
Takashi MISAKA
Frontier Research Institute for Interdisciplinary Sciences, Tohoku University

16:20—17:00   Bringing Computer and Physics Closer
Yonghao YUE
Graduate School of Frontier Sciences, The University of Tokyo

Tuesday, September 12th, 2017
MORNING SESSION (Chair: Shotaro AKAHO)

10:00—10:40   TBA
Michael GARWOOD
Department of Radiology, University of Minnesota

10:40—11:20   Data-Driven Diagnosis for Compressed Sensing Algorithms
Yoshinori NAKANISHI-OHNO
Graduate School of Arts and Sciences, The University of Tokyo

11:20—12:00   Fast Randomized Semi-Supervised Clustering

Florent KRZAKALA

Laboratoire de Physique Statistique, École Normale Supérieure

12:00—14:00   LUNCH

AFTERNOON SESSION 1

14:00—15:40   POSTER SESSION

AFTERNOON SESSION 2 (Chair: Yoshiyuki KABASHIMA)

15:40—16:20   Leave-One-Out Cross-Validation Estimates of the Number of Modules in Networks with Labeled Edges

Tatsuro KAWAMOTO

Artificial Intelligence Research Center, National Institute of Advanced Industrial Science and Technology

16:20—17:00   Exact Bayesian Learning of Partition Directed Acyclic Graphs

Jukka CORANDER

Department of Biostatistics, University of Oslo

18:30—   BANQUET

Wednesday, September 13th, 2017

MORNING SESSION (Chair: Tatsu KUWATANI)

10:00—10:40   Geodetic Inversion for Spatial Distribution of Slow Earthquakes under Sparsity Constraints

Takane HORI

Research and Development Center for Earthquake and Tsunami, Japan Agency for Marine-Earth Science and Technology

10:40—11:20   TBA

Phil R CUMMINS

Research School of Earth Sciences, the Australian National University

11:20—12:00   Covariance Modeling in Applications of Data Assimilation to High-Dimensional Earth and Geospace Systems
Tomoko MATSUO
Ann and H.J. Smead Department of Aerospace Engineering Sciences, University of Colorado Boulder

12:00—14:00   LUNCH

AFTERNOON SESSION (Chair: Toshiyuki TANAKA)

14:00—14:40   Sparse Modeling for Quantum Monte-Carlo Simulation
Masayuki OHZEKI
Graduate School of Information Sciences, Tohoku University

14:40—15:20   Combining Machine Learning and Physics to Understand Glassy Systems
Samuel S SCHOENHOLZ
Google Brain

15:20—16:00   Bayesian Spectroscopy in Solid-State Photo-Physics
Ichiro AKAI
Institute of Pulsed Power Science, Kumamoto University

16:00—16:20   Closing Remark
Koji HUKUSHIMA
Graduate School of Arts and Sciences, The University of Tokyo