

Australia-Japan Workshop on Data Science 2009
Provisional Programme

2009-03-22

Place: Seminar Room1, Building 14
Yagami Campus, Keio University, Yokohama, Japan

Tuesday 24 March

- 09:00-10:00 Registration (Coffee/Tea provided)
- 10:00-11:00 Louise Ryan, Chief Executive, CMIS, Australia
(Opening address by video conference)
- 11:00-12:30 Ross Darnell and Louise Marquart, CMIS, Australia
Clustering species according to their relationship with their physical environment.
Hideyasu Shimadzu and Ross Darnell, GeoScience Australia, Australia
Investigating the issues of sampling in marine surveys.
- 12:30-13:30 Lunch
- 13:30-15:00 Ritei Shibata and Yuki Sugaya, Keio University, Japan
Modeling counts in trawling data.
Mayumi Naka and Ritei Shibata, Keio University, Japan
Weight distribution in trawling data.
- 15:00-15:30 Coffee Break
- 15:30-17:50 Mick Haywood, CMAR., Australia
The effects of zoning on exploited fish populations in the Ningaloo Marine Park
Mihoko Minami, Keio Univeristy, Japan (From April, 2009)
Statistical challenges for modeling data with many zeros.
Sara Lennox, CMIS, Australia
Understanding water quality measurements.
- 18:00-20:00 Welcome Party

Wednesday 25 March

- 09:00-10:30 Scott Foster, CMIS, Australia
RAD biodiversity: modelling many species' counts together.
Toshihide Kitakado, Shuichi Kitada and Hirohisa Kishino, Tokyo
University of Marine Science and Technology, Japan
Statistical genetic approaches for estimating population structure with application to fisheries populations.
- 10:30-11:00 Coffee Break
- 11:00-12:30 Naoyuki Kamatani, RIKEN, Japan
A short history of genome-wide association study (GWAS) and statistical challenges.

- Natsuhiko Kumasaka and Naoyuki Kamatani, RIKEN, Japan
Textile plot: a new LD display of multiple SNP genotype data.
- 12:30-13:30 Lunch
- 13:30-15:00 Yuki Sugaya and Ritei Shibata, Keio University, Japan
Likelihood-based method for estimating penetrance and disease susceptibility allele frequency.
- Bill Wilson, CMIS, Australia
Challenges analysing modern genomics data
- 15:00-15:30 Coffee Break
- 15:30-17:00 Kunio Shimizu, Keio University, Japan
Circular-circular regression, functional relationship and measurement error models.
- Murray Cameron, CMIS, Australia
Collaboration, statistics and major research challenges: avoiding boring people.
- 18:30-20:30 Workshop Dinner
- Thursday 26 March**
- 05:00-12:00 Visit to Tokyo Fish Market
Excursion to Ueno Park, Lunch at Tofu Restaurant
- Friday 27 March**
- 09:00-10:30 Masaaki Sibuya, Keio University, Japan
Bell polynomials in discrete probability distributions.
- Peter Thomson, SRA, New Zealand
Mixed methods for fitting GEV distribution.
- 10:30-11:00 Coffee Break
- 11:00-12:30 Arnaud Doucet, Institute of Statistical Mathematics, Japan
Particle Markov chain Monte Carlo.
- Daisuke Yokouchi and Ryoza Miura, Hitotsubashi University, Japan
What can we do for hedge fund return data under the DandD environment?
- 12:30-13:30 Lunch
- 13:30-15:00 Pavel Shevchenko, CMIS, Australia
Quantitative modelling of financial risks.
- Ritei Shibata and Yuka Tanizawa, Keio University, Japan
Smile curve and local volatility.
- 15:00- Farewell (with Japanese cake)

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