

## 2nd International Workshop on Application of Big Data for Computational Social Science

*Workshop Chairs: Akira Ishii, Fujio Toriumi, Hiroki Takikawa, Kazutoshi Sasahara*

| Time        | Title  | Presenter/Author  |
|-------------|--|---|
| 8:30-8:40   | Opening  |   |
| 8:40-9:00   | Bias reduction of peer influence effects with latent coordinates and community membership  | Daniel Rajchwald, Natasha Markuzon, and Edoardo Airoidi   |
| 9:00-9:20   | Evaluating Funding Programs through Network Centrality Measures of Co-Author Networks of Technical Papers  | Masanori Fujita, Hiroto Inoue, and Takao Terano   |
| 9:20-9:40   | Using Machine Learning Methods to Identify Atrocity Perpetrators   | Benjamin E. Bagozzi and Ore Koren   |
| 9:40-10:00  | Inference of Personal Attributes from Tweets Using Machine Learning  | Take Yo and Kazutoshi Sasahara  |
| 10:00-10:20 | <b>Coffee Break</b>  |   |
| 10:20-10:40 | Detecting two types of seasonal words using simple autocorrelation analysis  | Kenta Yamada  |
| 10:40-11:00 | Analyzing Regional Characteristics of Living Activities of Elderly People from Large Survey Data with Probabilistic Latent Spatial Semantic Structure Modeling | Ayae Ide, Kazuya Yamashita, Yoichi Motomura, and Takao Terano   |
| 11:00-11:20 | A statistical analysis of behavioral bursts occurring in a social networking game  | Mitsuki Murase, Masanori Takano, Reiji Suzuki, and Takaya Arita   |
| 11:20-11:40 | Analysis of the Changes in Listening Trends of a Music Streaming Service   | Masanori Takano, Hiroki Mizukami, Fujio Toriumi, Makoto Takeuchi, Kazuya Wada, Masahiro Yasuda, and Ichiro Fukuda |
| 11:40-12:00 | Analysis of EXILE TRIBE in the Music Scene Using Mathematical Model of Hit Phenomenon  | Toshimichi Wakabayashi, Yasuko Kawahata, and Akira Ishii  |
| 12:00-13:30 | <b>Lunch Time</b>  |   |

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| 13:30-13:50  | Political Polarization in Social Media: Analysis of the "Twitter Political Field" in Japan   | Hiroki Takikawa and Kikuko Nagayoshi   |
| 13:50-14:10  | Analysis of Twitter Messages about the Osaka Metropolis Plan in Japan  | Kouki Hayashi, Eiichi Umehara, and Yuuki Ogawa   |
| 14:10-14:30  | Cross-National Measurement of Polarization in Political Discourse: Analyzing floor debate in the U.S. and the Japanese legislatures  | Takuto Sakamoto and Hiroki Takikawa  |
| 14:30-14:50  | "Fake News" Drives out Real: Analyzing Posts and Links shared on Public Facebook Pages During 2016 US Presidential Election  | King-wa Fu   |
| 14:50-15:10  | Facebook and Public Health: A Survey Study to Better Understand Clustering and Supervised Learning Findings about Facebook Post Performance of 153 Health and Care Organisations | Nadiya Straton, Ravi Vatrapsu, and Raghava Rao Mukkamala                                       |
| 15:10-15:30  | An Overview of Social Media Analysis for Disasters Management --Toward Leveraging Social Media Data for Community Recovery   | Yuya Shibuya   |
| 15:30 -15:50 | <b>Coffee Break</b>  |  |
| 15:50-16:10  | Position-sensitive propagation of information on social media using social physics approach  | Akira Ishii, Takayuki Mizuno, and Yasuko Kawahata  |
| 16:10-16:30  | Comparison between Spatial Distributions of Tweet Base and Population in Japan   | Shouji Fujimoto, Atushi Ishikawa, and Takayuki Mizuno  |
| 16:30-16:50  | When Do Users Change Their Profile Information on Twitter?   | Jinsei Shima, Mitsuo Yoshida, and Kyoji Umemura  |
| 16:50-17:10  | Relationships between market impact characteristics and order book properties  | Kenta Yamada and Takayuki Mizuno   |
| 17:10-17:30  | Time Dependent Analysis of Financial Networks using Supervised Latent Feature Relational Models  | Shotaro Ito and Koji Eguchi  |
| 17:30-17:50  | Develop Method to Predict the Increase in the Nikkei VI index  | Hirohiko Suwa, Yuuki Ogawa, Eiichi Umehara, Kento Kakigi, Tatsuo Yamashita, and Kota Tsubouchi |
|              | <b>Closing Remarks</b>   |  |