

The Fifth Joint Japan-North America Mathematical Sociology Conference

Venue: Room 111-113, Colorado Convention Center

Date: August 16, 2012

Cosponsors:

ASA Section on Mathematical Sociology
Japanese Association for Mathematical Sociology
ASA Section on Rationality and Society

Conference Program

(Each speaker has 15 minutes for presentation and 5 minutes for discussion)

8:45 am-9:00 am Opening Remarks (Room 111): Katherine Faust (Chair of Section on Mathematical Sociology) and Yoshimichi Sato (Chair of Section on Rationality and Society and Co-organizer of the Conference)

9:00 am-10:20 am Session 1-A (Room 111): Social Network Analysis I (Moderator: Ryuhei Tsuji)

Ryan M. Acton (University of Massachusetts, Amherst) *Modeling Heider's Theory of Balance in a Large Social Network: The Case of Tie Censoring and Actor Perception*

Hiroki Takikawa (Tohoku University) *A Relational Theory of Status Hierarchy: An Extension of Gould Model to Incorporate the Multidimensional Choices*

Carter T. Butts (University of California, Irvine) *Power Indices for Agonistic Relations*

Nobuo Suzuki (Tohoku University) *The Formation Conditions of New Social Networks: An Empirical Study with Disaster Victim of Earthquake at North-East Japan*

9:00 am-10:20 am Session 1-B (Room 113): Social Status/Inequality (Moderator: Hiroshi Ishida)

Guillermina Jasso (New York University) and Bernd Wegener (Humboldt University) *Establishing the Exact Relation between Inequality and Tax Progressivity*

Namie Nagamatsu (Kwansei Gakuin University) *Increasing Inter-Industry Wage Differentials in Japan: Focus on Differences Between Occupations*

Jeffrey Smith (Duke University) *Measuring Social Change as Categorical Change*

10:20 am-10:40 am Break

10:40 am-12:00 pm Session 2-A (Room 111): Social Network Analysis II (Moderator: Katherine Faust)

Masayuki Kanai (Senshu University) *Are Hotels in Destination Competitive or Cooperative?: An Empirical Application of Social Network Analysis*

Christopher Steven Marcum (RAND Corporation) and Raffaele Vardavas (RAND Corporation) *Network Selection for Inductive Reasoning Models of Influenza Vaccination Decisions*

Yusuke Inagaki (Tohoku University) *The Power of Kizuna: Social Capital and Recovery in the Great East Japan Earthquake*

Emma S. Spiro (University of California, Irvine), Britta Johnson (University of Colorado, Colorado Springs), Jeannette Sutton (University of Colorado, Colorado Springs), and Carter T. Butts (University of California, Irvine) *Diffusion of Innovation Among Government Organizations: Asymmetric Effects of Organizational Lineage on Social Media Adoption*

10:40 am-12:00 pm Session 2-B (Room 113): Public Goods (Moderator: Jun Kobayashi)

Nynke van Miltenburg (ICS, Utrecht University), Davide Barrera (University of Turin /ICS, Utrecht University), Vincent Buskens (ICS, Utrecht University/ Erasmus University Rotterdam), Werner Raub (ICS, Utrecht University) *Implementing Sanctions in the Public Good Game: The Effect of Individual and Collective Decision Rules*

Yusuke Kanazawa (Rikkyo University) *Does Prisoner's Dilemma Game Reflect the Reality of Commons?: A Quantitative Analysis of Japanese Commons (Iriai) in 1972*

Danielle Lewis (University of South Carolina), Michael Hahn (University of South Carolina), Sheldon Sumpter (University of South Carolina), and David Willer (University of South Carolina and Kansas University) *How Actors with Differing Social Values Exchange: Predictions and Results for the 4-Line Networks*

Takahisa Suzuki (Graduate University for Advanced Studies) and Tetsuro Kobayashi (National Institute of Informatics) *How the Relationship between Tolerance of Reputation-Making Norms and the Selectivity in Social Exchange Affects Global Cooperation Level?*

12:00 pm-1:00 pm Lunch Break

1:00 pm -2:20 pm Session 3-A (Room 111): Social Network Analysis III (Moderator: Carter Butts)

Sean Fitzhugh (University of California, Irvine), Carter Butts (University of California,

Irvine), Minas Gjoka (University of California, Irvine), Maciej Kurant (University of California, Irvine), and Athina Markopoulou (University of California, Irvine) *Methods for Enumerating Members of Subpopulations within a Network*

Zack W Almquist (University of California, Irvine), Emma S Spiro (University of California, Irvine), and Carter T Butts (University of California, Irvine) *Dynamic Network Logistic Regression with Missing Data, with an Application to a Dynamic US Governmental Emergency Management-related Friend/Follower Network on Twitter*

Katherine Faust (University of California, Irvine) *Detecting, Characterizing, and Validating Structural Signatures in Social Networks*

James F. Hollander (Texas Instruments Inc. (ret.)) *Generating Multimodal Social Network Array from Affiliation and Category Matrices, and Activity Metric for It*

1:00 pm -2:20 pm Session 3-B (Room 113): Segregation/Deprivation (Moderator: Namie Nagamatsu)

Yutaka Nakai (Shibaura Institute of Technology) *Dominance of Exclusion Group with Irrational Collective Attack: Formal Logic Common to Juvenile Delinquency and Bullying*

Atsushi Ishida (Osaka University of Economics) *Modernization and Paradoxes of Relative Deprivation*

Sarker Shahidul (Tohoku University) *Parents' Class Background and Hypergamy in Marriage Market of Bangladesh: Does Dowry Push Girls out of School?*

Kazuo Yamaguchi (University of Chicago) *Japanese Firms are Creating Negative Stereotypes of Female Employees: Self-fulfilling Prophecy and Its Counter Measures*

2:20 pm-2:40 pm Break

2:40 pm-4:00 pm Session 4-A (Room 111): Social Capital (Moderator: John Skvoretz)

Hiroko Osaki (Tokyo Institute of Technology) *Multi-Level Effects of the Qualitative Aspect of Social Capital on Self-Rated Health*

Yukari Furusato (Tohoku University) and Yoshimichi Sato (Tohoku University) *A Paradoxical Relationship between Bonding Social Capital and Subjective Well-Being*

Naoki Sudo (Gakushuin University) *Types of Generalized Trust*

Ryuhei Tsuji (Shinshu University) *Effects of General Trust and General Tolerance on Voting Behavior and Political Interests*

2:40 pm-4:00 pm Session 4-B (Room 113): Social Dynamics (Moderator: Guillermina Jasso)

Rich Colbaugh (Sandia National Laboratories) and Kristin Glass (Sandia National Laboratories) *Predictability of Human Behavior*

Michael Restivo (SUNY Stony Brook) and Arnout van de Rijt (SUNY Stony Brook) *Limits to Cumulative Advantage: Experimental Evidence from Wikipedia*

Yosuke Kira (Tohoku University) *Why Communication Promotes Cooperation in Social Dilemmas*

Lorien Jasny (University of California, Davis) *Conversation Dynamics and Belief Change: Adaptive Rangeland Management by Diverse Stakeholder Groups*

4:00 pm-4:20 pm Break

4:20pm-5:40 pm Session 5-A (Room 111): Foundations of Mathematical Sociology (Moderator: David Willer)

Geoff Tootell (San Jose State University) *A Change of Mind*

Marc Idelson (Peking University HSBC Business School) *The House that Math Built: A Call for a Grounded Body of Math*

Scott Feld (Purdue University) *An Often Neglected Condition For Demonstrating Cause and Effect: No Selection on Outcomes*

David L. Sallach (Argonne National Laboratory/University of Chicago) *Soft Contention: Toward a Categorical Formulation*

4:20pm-5:40 pm Session 5-B (Room 113): Conflict Resolutions/Cooperation/Compliance (Moderator: Yuriko Saito)

Robert Mamada (University of Hawaii) *The Institutions of Bargaining and Resolution of Conflicts in Japanese Manga (Comic) Magazine: Nash Bargaining Solution and Logit Equilibrium*

Hideki Fujiyama (Dokkyo University) *Information Structure and Coordination in Organization*

Charlie Gomez (Stanford University) and Paolo Parigi (Stanford University) *Reweaving the Global Web: Mitigating Tensions between Regionalism and World Polity in the Intergovernmental Organization Network from 1965 to 2005*

Daisuke Mori (Kumamoto University) *When Do States Obey International Court of Justice?: Using Fuzzy-Set QCA to Study States' Compliance*

5:40 pm-5:50 pm Closing Remarks (Room 111): Hiroshi Ishida (President of Japanese Association for Mathematical Sociology)