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Proceedings of  
SOCREAL 2019

5th International Workshop  
On Philosophy and Logic of Social Reality  
15-17 November 2019  
Hokkaido University, Sapporo, Japan

(Ed. ) Tomoyuki Yamada

## About SOCREAL 2019

Since the last years of the 20th century, a number of attempts have been made in order to model various aspects of social interaction among agents including individual agents, organizations, and individuals representing organizations. The aim of SOCREAL Workshop is to bring together researchers working on diverse aspects of such interaction in logic, philosophy, ethics, computer science, cognitive science and related fields in order to share issues, ideas, techniques, and results.

The earlier editions of SOCREAL Workshop was held in March 2007, March 2010, October 2013, and October 2016. Building upon the success of these editions, its fifth edition was held from 15 November till 17 November 2019 under the auspices of Philosophy and Ethics Laboratory at Faculty of Humanities and Human Sciences, Hokkaido University, CAEP (Center for Applied Ethics and Philosophy) at Faculty of Humanities and Human Sciences, Hokkaido University, and LOG-UCI (An interdisciplinary study of the logical dynamics of the interaction between utterances and social contexts), a research project funded by JSPS (JSPS KAKENHI Grant Number JP 17H02258).

SOCREAL 2019 consisted of keynote lectures by invited speakers and presentations of submitted papers. Researchers from various fields, including logic, philosophy, ethics, computer science, cognitive science had been invited to submit an extended abstract (up to two thousand words) by 30 August 2019. We had received 16 abstracts and each of them had been peer-reviewed by the program committee of the workshop. Here you will find abstracts or presentation slides of 8 accepted papers and 4 keynote lectures.

## Committees

### PROGRAM COMMITTEE

Thomas Ågotnes (University of Bergen, Norway, and Southwest University, China)

Johan van Benthem (University of Amsterdam, The Netherlands, and Stanford University, USA)

Jose Carmo (Universidade da Madeira, Portugal)

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Taiki Takahashi (Hokkaido University, Japan)

Allard Tamminga (Rijksuniversiteit Groningen, The Netherlands)

Tomoyuki Yamada (Hokkaido University, Japan)

### LOCAL ORGANIZING COMMITTEE

Nobuo Kurata (Hokkaido University)

Katsuhiko Sano (Hokkaido University, Japan)

Tomoyuki Yamada (Hokkaido University, Japan)

## The Program & The Table of Contents

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DAY 1: 15 November 2019

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14:30 – 14:35 [Opening] W308

Tomoyuki Yamada, Hokkaido University, Japan

[Session 1] Quantified Modal Logic and Social Ontology, W308

Chairs: Tomoyuki Yamada & Katsuhiko Sano

14:40 – 16:00 [Keynote Lecture 1]

Jeremy Seligman, University of Auckland, New Zealand,

“What is and what might have been” ----- 1

16:00–16:20 [Break]

16:20 – 17:00 [Contributed Lecture 1]

Takahiro Sawasaki, Hokkaido University, Japan

“A Sequent Calculus for K-restricted Common Sense Modal Predicate Logic” -- 2

17:05 – 17:45 [Contributed Lecture 2]

David Strohmaier, University of Cambridge, UK

“There Are no Empty Groups” ----- 6

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DAY 2: 16 November 2019

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## [Session 2] Social Reality &amp; Communication, W409

Chairs: Barteld Kooi &amp; Sujata Ghosh

10:00 – 11:20 [Keynote Lecture 2]

Tomoyuki Yamada, Hokkaido University, Japan

“Count-as Conditionals in Channel Theory” ----- 9

11:20–11:40 [Break]

11:40 – 12:20 [Contributed Lecture 3]

Maryam Ebrahimi Dinani, Institut Jean Nicod, France

“Constitutive Rules of Social Practices: Definitional or Essential?” ----- 18

12:25 – 13:05 [Contributed Lecture 4]

Maria Isabel Narváez Mora, Universitat de Girona, Spain

“A Classification of Discursive References to Settle What is Modified by Talking and Why it is So” ----- 21

13:05 – 14:40 [Lunch Break]

## [Session 3] Knowledge, Morality &amp; Decision, W409

Chairs: Tomoyuki Yamada &amp; Katsuhiko Sano

14:40 – 16:00 [Keynote Lecture 3]

Thomas Ågotnes (University of Bergen, Norway, and Southwest University, China)

“The Dynamics of Group Knowledge and Belief” ----- 25

16:00–16:20 [Break]

16:20 – 17:00 [Contributed Lecture 5]

Satoru Suzuki, Komazawa University, Japan

“A Measurement-Theoretic Modification of Harvey’s Aggregation Theorem” ---- 54

17:05 – 17:45 [Contributed Lecture 6]

Sujata Ghosh, Indian Statistical Institute, India

“Single-Peakedness of Preferences via Deliberation: A Formal Study” ----- 66

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DAY 3: 17 November 2019

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[Session 4] Logics of Knowledge, W409  
 Chairs: Jeremy Seligman & Thomas Ågotnes

10:00 – 11:20 [Keynote Lecture 4]

Barteld Kooi, University of Groningen, The Netherlands

“Dynamic Term-Modal Logic Revisited” ----- 72

11:20–11:40 [Break]

11:40 – 12:20 [Contributed Lecture 7]

Youan Su & Katsuhiko Sano, Hokkaido University, Japan

“Cut-free and Analytic Sequent Calculus of First-Order Intuitionistic Epistemic Logic” ----- 73

12:25 – 13:05 [Contributed Lecture 8]

Ryo Murai & Katsuhiko Sano, Hokkaido University, Japan

“Sequent Calculi for Multi-Agent Epistemic Logics for Distributed Knowledge” – 76

13:05 – 13:10 [Closing] W409

Katsuhiko Sano, Hokkaido University, Japan