



# HOKKAIDO UNIVERSITY

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SOCREAL 2010  
Proceedings of the  
2nd International Workshop  
on  
Philosophy and Ethics of  
Social Reality

27–28 March 2010  
Hokkaido University  
Sapporo, JAPAN

Co-Chairs  
Johan van Benthem  
Tomoyuki Yamada

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## Preface

In the past two decades, a number of logics and game theoretical analyses have been proposed and combined 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 first SOCREAL Workshop was held in March 2007 under the auspices of GPAE (Graduate Program in Applied Ethics, Graduate School of Letters, Hokkaido University) sponsored by the Ministry of Education, Culture, Sports, Science and Technology (MEXT). Building upon the success of SOCREAL 2007, its second edition, SOCREAL 2010, was held in March 2010 under the auspices of CAEP (Center for Applied Ethics and Philosophy, Graduate School of Letters, Hokkaido University).

SOCREAL 2010 consisted of three keynote lectures by invited speakers and eight contributed talks presenting state-of-the-art results and followed by stimulated discussions, and a general discussion session on what role can be played by formal methods in studying social reality. It was a enormous success. The present volume contains extended abstracts, handouts, and/or slides of the keynote lectures and the contributed talks given in SOCREAL 2010. For the purpose of reference, we have given virtual page numbers to the pages of each contribution, but we refrained from printing the page numbers on the pages where the format of the page is not suitable for doing so. The page number of the first page of each contribution is given in the table of contents. In the cases where the authors have given us both their abstracts and slides, we let the abstracts precede the slides in this volume.

The contributed papers are selected out of about 30 submitted papers. We thank all the researchers who submitted their papers for their interest in SOCREAL 2010, and the members of program committee for their reviews. We also thank CAEP and Graduate School of Letters of Hokkaido University for their generous support. And lastly, we thank all the participants for their contribution to the success of SOCREAL 2010.

Johan van Benthem  
Tomoyuki Yamada

# SOCREAL 2010

2nd International Workshop on Philosophy and Ethics of Social Reality  
27–28 March 2010, Hokkaido University, Sapporo, JAPAN  
<http://www.hucc.hokudai.ac.jp/k15696/home/sr10/>

## The Program

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DAY 1: 27 March 2010

Room W409, Humanities and Social Sciences Classroom Building

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09:30 - 09:50 Registration

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09:50 - 10:00 Opening

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### Keynote Lecture 1

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10:00 - 11:00 Johan van Benthem  
(University of Amsterdam, Netherlands, Stanford University, USA)  
Joining Information and Evaluation: a dynamic logical perspective

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### Session 1: Obligations and Preferences

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11:15 - 12:00 Allard Tamminga (University of Groningen, Netherlands)  
Nash Equilibria in Multi-agent Deontic Logic

12:15 - 13:00 Satoru Suzuki (Komazawa University, Japan)  
Measurement-Theoretic Foundation of Threshold Utility  
Maximiser's Preference Logic

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13:00 - 15:00 Lunch Break

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### Session 2: Normative Systems

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15:00 - 15:45 Berislav Žarnić (University of Split, Croatia)  
A Logical Typology of Normative Systems

16:00 - 16:45 Yasuo Nakayama (Osaka University, Japan)  
Logical Framework for Normative Systems

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### Keynote Lecture 2

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17:00 - 18:00 Fenrong Liu (Tsinghua University, China)  
Understanding Deontics from a Preference Perspective

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DAY 2: 28 March 2010  
Room W409, Humanities and Social Sciences Classroom Building

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Session 3: Responsibility and Collective Agency

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- 10:00 - 10:45 Matthew Braham & Martin van Hees  
(University of Groningen, Netherlands)  
Responsibility in Games
- 11:00 - 11:45 Biswanath Swain  
(Indian Institute of Technology Kanpur, India)  
Is Intention sufficient to explicate Collective Agency?
- 12:00 - 12:45 Ryoji Fujimoto & Choi Chang-bong  
(Hokkaido University, Japan)  
Interpretation of Action and Sociality of Action
- 

12:45 - 14:45 Lunch Break

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Session 4: Argumentations and Speech Acts

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- 14:45 - 15:30 Miranda del Corral  
(Universidad Nacional de Educación a Distancia, Spain)  
Social Commitments: Expectations, Obligations and Entitlements
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- 15:45 - 16:30 General Discussion Chaired by Johan van Benthem
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Keynote Lecture 3

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- 16:45 - 17:45 Tomoyuki Yamada (Hokkaido University, Japan)  
Scorekeeping and Dynamic Logics of Speech Acts
- 
- 18:00 - 18:10 Closing
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#### WORKSHOP CO-CHAIRS

Johan van Benthem

(University of Amsterdam, The Netherlands, and Stanford University, USA)

Tomoyuki Yamada (Hokkaido University, Japan)

#### PROGRAM COMMITTEE

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