



ECAP10

*VIII European Conference on
Computing and Philosophy*



General Editor: Klaus Mainzer

The interdisciplinary conference ECAP10 is devoted to the foundations and limits of man-machine interaction. Our thoughts and actions, our perception, imagination, and experience depend more and more on informational, computational, and robotic systems with increasing complexity and autonomy. What are their epistemic, ethical, and societal challenges for the future of mankind? ECAP10 will promote scholarly dialogues on all aspects of this computational & informational turn of society and the use of computers and robots in the service of philosophy.

ECAP10 is the eighth conference in the annual series. From Monday 4th to Wednesday 6th October, 2010 the European Conference on COMPUTING AND PHILOSOPHY (ECAP10) will be held at the TUM - Technische Universität München. ECAP is the European conference on Computing and Philosophy, the European affiliate of the International Association for Computing and Philosophy (IACAP).



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Table of Contents

Track I Philosophy of Computer Science	21
Specification and Artifact	24
Raymond Turner	
Formalizing correctness and interaction in typed programming languages	25
Giuseppe Primiero	
A Scientific Realist Perspective for Computer Science Inquiry	29
Janyl Jumadinova	
Deepak Khazanchi	
And the Winner is...	34
Andreas C. Pietz	
Software development: Out of the black box	38
Lindsay Smith	
Vito Veneziano	
Paul D. Wernick	
The Integration of Ontological Categories and Domain Concepts in Applied Ontology	44
Stefano Borgo	
Intepreters as computational mechanisms	52
Javier Oscar Blanco	
Renato Cherini	
Martin Diller	
Pío García	
<i>Computer science</i> must be naturalized... effectively!	56
Denis Chetwynd	
From Ability to Capability	66
ways to epistemology...	
John G. Geske	



How to Contain Inconsistency or, Why Wittgenstein only scratched the surface Hendrick Decker	70
Abstraction in Mathematics and Computer Science Uwe Riss	76
On Specification and other Formal Limitations of Formalized Ethical Concepts Rainhard Z. Bengesz	80
Towards Empirical and Scientific Theories of Computation Steven Meyer	81



Track II Philosophy of Information and Cognition	88
Levels of Cognitive Extension	92
Holger Lyre	
The Role of Causally Relevant Properties in an Informational Theory of Causality	95
Christoph Schulz	
Technical Agency - A minimal Theory of Mind	99
Gerhard Chr. Bukow	
There's Plenty of Boole at the Bottom! How to Overcome Information Entropy	103
Francesco Berto	
Jacopo Tagliabue	
Quantum Computational Complexity in a Quantum Complex Universe	110
Vincent Paul Russo	
REPRESENTATION AND INFORMATION	114
A TWO-LEVEL ANALYSIS	
Hilmi Demir	



Track III Robotics, AI, and Cognitive Systems	118
Infospheres between Nanosphere and Ideospheres	121
Jean Sallantin	
Evolution of Biped Locomotions Using Bees Algorithm, Based On Truncated Fourier Series	125
Ebrahim Yazdi	
Vahid Azizi	
Abolfazl T. Haghghat	
An investigation of the reliability of fault tolerant cognitive technical systems	129
Thierry Sop Njindam	
Kristin Paetzold	
Universal Machines and Partial Isomorphisms: Models of Intelligence in Turing's Imitation Game	134
Hans Joachim Greif	
Semiotics as Theoretical Underpinning for Language Acquisition in Developmental Robotics	139
Frank Förster	
Chrystopher L. Nehaniv	
David Hartley in the twenty first century	145
Detecting and categorizing patterns associatively	
Steve Olivecrona	
Dirk Derom	
From Ability to Capability	149
Eric Bourreau	
Birgita Dresp-Langley	
Alexandro Garrido	
Jean Sallantin	
Digested Information, a Non-Semantic Motivation for Agent-Agent Interaction	155
Christoph Salge	



Control Mechanisms in Information Systems	159
A Logical Approach to Machine Intelligence	
Aziz Fevzi Zambak	
Concept Detection	163
Tobias Kötter	
Michael R. Berthold	
On The Other Hand: The Surprising Challenge of Conceptual Metaphor for Embodied Cognition	169
Robin Zebrowski	
Uncanny Moral Behavior	173
Carson Reynolds	



Track IV Computational Neuroscience of Emotions and Consciousness	178
What does it mean to do neuroscientific research on emotions and consciousness and does it allow or even need a computational perspective?	181
Prof. Dr. Günther Palm	
A critical investigation of the foundations of informational structural realism	185
Thomas Christopher Dasch Florentin Neumann	
My Ipad as my best friend or the question: who, and if yes, where is Mary? – Computer and Individuality	190
Hannes Bräutigam	
Propositional Attitude Approaches in constructing Artificial Emotions in Androids	195
Wolfgang Gessner	
What Is It Like to Be a Human?	201
Consciousness, Free Will and Aesthetics from the Perspective of Information Integration Marcin J. Schroeder	



Track V Computational Approaches to Thoughts and Actions	208
How conscious the immune system can be?	211
Chiara Porcelluzzi Luca Albergante	
Toward a "Reading Spaces" Reification	216
Jean-Gabriel Ganascia	
The Extended Mind and the Digital Milieu	222
Yuk Hui	
Enacting a Cognitive Domain in the Interaction with Perceptual Supplementation	226
Alfonsina Scarinzi Olivier Gapenne	
Modeling Leibniz's Monade by using Multi Agent System	229
Fuki Ueno Yasuhiro Suzuki	
Philosophical consequences of free interaction between humans and robots.	236
Tillmann Pross	
A Model for Memory	240
Synergies in sparse matrices Klaus Prätor	
Simulating Science?	244
Computer Simulation versus Experiment Inga Bones	
Hello Dave. Shall we continue the game?	251
Questioning Man-Computer interactions Liesbeth De Mol	
What is a Formal Ontology?	256
Some Meta-Ontological Remarks Ludger Jansen	



A Social Epistemology for Epistemic Social Software
Judith Simon

261



Track VI From Information to Knowledge Society	266
The Networked Self in the Information Society	270
Philip Brey	
Virtualized, Personalized and Ubiquitous Learning in Post-Industrial Society	275
Andrei Kojukhov Ilya Levin	
Surviving The Singularity	281
Improving Psychological Adjustment in Anticipation of Change Raymond Reed Hardy	
Communication, control and freedom	285
For an archaeology of information technologies Teresa Numerico	
Simulation and Application	291
The Bilateral Relationship between Education and Artificial Intelligence Jiyou Jia	
E-Reading Philosophical Texts: On The Tension Between Dynamic Text Comprehension and the Irreversibility of Annotations on Paper	295
Jochen Huber Andreas Kaminski	
Societal Dimensions of HIS as a Trading Zone	300
Could the Informatization Really Benefit the New Medical Reform? WANG Chengwei LIN Nan	
How to Understand the Debate on Precautionary Principle in Risk-based Decision Making	305
LI Ping	
Political and educational emergences in a new techno-social weaving in Colombia	310
Rocío Rueda Ortiz	310



Track VII IT, Cultural Diversity, and Technoscience Studies	316
Informational precaution	320
Wolter Pieters	
The Metaphysical Character of Information	326
Heidegger and Baudrillard	
Andreas Beinsteiner	
Reconfiguring the User: Raising Concerns over User-Centered Innovation	332
Diego Compagna	
(A)Normality seen by an inhuman(e) eye	337
Alma Kolleck	
Andreas Traut	
Multilingualism and Cultural Diversity in IT and TC Field	342
A short theoretical and empirical discussion	
Afsar Sohleila Sattari	
Trusting our Distrust	344
Cecile K. M. Crutzen	



Track VIII Information Ethics and Roboethics	350
Information Ethics for Robotic Agents	354
Gordana Dodig-Crnkovic	
You, robot	358
Ontology, appearance, and the linguistic construction of robots and human-robot relations	
Mark Coeckelbergh	
Artificial Morality	360
Moral Desirability vs. Computational Feasibility	
Linda Johansson	
Henrik Carlsen	
Care Centered Value Sensitive Design	364
a framework for the design of robots in healthcare	
Aimee van Wynsberghe	
A Methodological Reflection on Converging Technologies	366
Or, Wherein the Empirical is in Information Ethics?	
Pak-Hang Wong	
SmartCCTV - Autonomous Moral Agent or Means to Ends?	371
Andreas Traut	
Alma Kolleck	
Robots, Trust and War	376
Thomas W. Simpson	
Just Tell Me That You Love Me	379
The ethics of social robotics	
John P. Sullins	
Empathy with Robots and its Ethical Consequences	384
Catrin Misselhorn	
Good and Grounded	388
Combining the empirical and axiological turn in computer ethics	
Johnny Hartz Søraker	



Should robots that interact with humans look like humans?	392
Robert Gawrylczyk	
Hybrid Anthropology	400
Non-human Actors and our Relations to them	
Markus Fath	
Techno-Security. The Case of the Body Scanner	406
Jutta Weber	
What Can the Internet Offer to Philosophy?	411
Peter Bujňák	
Uniqueness of Computer Ethics in the Analysis of Computer-Mediated Human Manipulation	414
Esin Ceren Ahiska	



Track IX Technological Singularity and Acceleration Studies	422
Mechanists of the Revolution: The Case of Edison and Bell	426
Anthony F. Beavers	
Brent Sigler	
Economic Implications of Software Minds	431
Steven Kaas	
Steve Rayhawk	
Anna Salamon	
Peter Salamon	
How intelligible is intelligence?	438
Implications for AI development trajectories	
Anna Welling Salamon	
Steve Rayhawk	
Janos Kramar	
From mostly harmless to civilization-threatening	443
pathways to dangerous artificial general intelligences	
Kaj Sotala	
Deriving a Safe Ethical Architecture for Intelligent Machines	451
Mark R. Waser	
Superintelligence does not imply benevolence	456
Joshua Fox	
Carl Shulman	
Implications of a software-limited singularity	463
Carl Shulman	
Anders Sandberg	
How the Singularity of Artificial Intelligence might be achieved, and why it does not matter	471
Joscha Bach	



Track X Crossroads	478
Do abductive machines exist? Proposal for a multi-level concept of abduction	482
Andreas Kaminski Sebastian Harrach (Pammer)	
The Cognitive Assistant	488
Alexey Lunacharsky	
Are calculations on computers arguments?	492
Claus Beisbart	
Simulating Time with Computers: implementation and experimentations	496
E. Kolonis Michael Nicolaidis	
Singularity: The Anthropocene Evolutionary Mechanism	502
Scott Mt. Yim	
Can Machines Have an Unconscious? Would They Have To?	506
Stefano Franchi	
How Do Philosophers Think Their Own Discipline? Reports from a Knowledge Elicitation Experiment	514
Michele Pasin	
Philosophy of the Internet about the nature of the Internet	518
László Ropolyi	
Finitism in a Formal System of Higher Order	522
Claus Akira Horodyski-Matsushigue	
Theatrum Scientiarum	527
An interdisciplinary effort to connect artistic and scientific manners Ina Zimmermann Dominik Zorn	
On Digital Beings	535
Carl-Johan Rosén	



Art & Science - Some Reflections	540
Gerhard Spilgies	
Not really a Foreword	3
Closing illustration	542
List of Authors in Alphabetic Order	544



You, robot

Ontology, appearance, and the linguistic construction of robots and human-robot relations

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Extended Abstract

Although most of us think of robots as 'mere machines', empirical research shows that we sometimes treat them as if they were more than objects. We respond to them with far more affection or even unease (Mori, 1970) than one would expect. Some robots become 'social robots' or artificial companions (Breazeal, 2003; Turkle, 2006; Dautenhahn, 2005, 2007). How can we make sense of this paradox from a philosophical point of view?

Traditional Western ontologies, with their strict subject-object distinctions, their belief in intrinsic properties, and their objectivist approach, are not very helpful for understanding what goes on here. What we need instead is a social-relational and phenomenological approach to ontological status, which shows how robots can appear to us as 'quasi-others' (Ihde, 1990) within quasi-social relations. The 'machine' appearance is only one possible interpretation: the robot can have different meanings and there is 'gestalt switching' between them.

Responding to work by Ihde, Searle, and Turkle (Ihde, 1990; Searle, 1980, 1995; Turkle, 1984, Turkle et al 2006), this paper argues that the relation between subject and (more-than-) object is mediated by language. It proposes a 'linguistic turn' in philosophy of robotics that changes the focus from what robots 'are' to how robots appear to us, and from questions about what the robot can say (philosophy of early AI, e.g. Turing, 1950) to what humans say (philosophy of contemporary social robotics).

It is shown that the words we use do not only represent robots and human-robot relations but also interpret them and even construct them. This view enables us to attend to shifts in talking about robots to talking to robots as interpretations and constructions of human-robot relations. In linguistic terms, we can observe shifts from the impersonal third-person pronoun "it" to the personal second-person "you" and sometimes even the first-person plural "we".



This makes sense of what goes on between humans and robots by revealing at least two different modes of relating to robots, which are both linguistically mediated: an 'objective' one and a 'quasi-social' one. Neither of these modes or repertoires has ontological priority.

Although more work is needed to explore its full scope and implications, this approach can contribute to a richer understanding of how we relate to robots and to other entities.

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