



# E-CAP'04

## SCHEDULE (final)

Invited presentations

Full presentations

Short presentations

*Session I: Cognitive Science, Epistemology, and Metaphysics*

*Session II: Abduction, Creative Reasoning, Scientific Discovery*

*Session III: Internal and External Representations, Consciousness*

*Session IV: Ethics, Technology, and Teaching and Learning*

*Session V: Logic, Computational Models and Tools*

E-CAP'04 is sponsored by

**MIUR (Ministry of University, Italian Government)**

UNIVERSITY OF PAVIA  and Fondazione 

**Thursday 3 June 04**

### Morning

Location: Collegio Ghislieri, Aula

Goldoniana

8.00-8.55

Registration Sala del Camino

Location: Aula Goldoniana

8.55-9.05

**Welcome by Prof. ROBERTO SCHMID Rector of the University of Pavia**  
**Welcome by Prof. Gianni FRANCONI, Preside of the Facoltà di Lettere e Filosofia, Pavia**  
**Welcome by Prof. Mario VEGETTI, Director of the Department of Philosophy, Pavia**  
**Welcome by Prof. Susan STUART, Regional Director CAP Association**  
**Welcome by Prof. Andrea BELVEDERE Rector of Collegio Ghislieri**

9.05-9.15

9.15-9.20

9.20-9.25

9.25-9.30

9.30-10.30

Invited Lecture Location: Aula Goldoniana Chair: Lorenzo Magnani

**Deborah JOHNSON**  
Integrating Ethics and Technology

10.30-10.50

Coffee Break, Refettorio

Location: Aula Goldoniana

Session III

Chair: Deborah Johnson

Location: Aula Sandra Bruni

Session II

Chair: Giuseppe Longo

Location: Salone San Pio

Session V

Chair: Alison Pease

10.50-11.30

<p><b>Mariana Claudia Broens, Maria Eunice Quilici Gonzalez, Luis Felipe de Oliveira, Pim Hase-lager</b></p> <p>Embodied consciousness: A view from General System Theory</p>	<p><b>Rens Bod</b></p> <p>Exemplar-Based Explanation</p>	<p><b>Dave Billing, Tom Addis,</b></p> <p>Music to Our Ears: A Required Paradigm Shift for Computer Science</p>
<p><b>Antonio Chella, Salvatore Gaglio</b> Conceptual Spaces and Artificial Consciousness 11.30-11-50</p> <p><b>Jan Burian</b> Ethics of artificial consciousness</p>	<p><b>Jaakko Särelä, Jan-Hendrik Schleimer, Mikko Berg, and Timo Honkela</b></p> <p>Category Learning by Formation of Regions in Conceptual Spaces</p>	<p><b>Wieslaw Wójcik</b></p> <p>The scheme of development of mathematics according to Lakatos and its application to the Riemann's scientific activity</p>

11.30-12.10

Invited Lecture Location: Aula Goldoniana Chair:

**Lorenzo MAGNANI – Chair**  
Moral Mediators in a Technological World

12.10-13.10

### Afternoon

Location: Aula Goldoniana

Session V

Chair: L. Magnani

Location: Aula Sandra Bruni

Session I

Chair: Selmer Bringsjord

Location: Salone San Pio

Session III

Chair: Roberto Feltrero

14.30-15.10

<p><b>Asunción Álvarez</b> Coping with Meaning. Towards an</p>	<p><b>Marius Dumitru</b></p>	<p><b>A. Barua and M. Satpathy</b></p>
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	Evolutively Plausible Computational Semantics 14.30-14.50		
	<b>Rosaria Domenella, Alessio Plebe</b> Can vision be Computational?	Compositionality, the Language of Thought, and the Dynamic Map of Thought	Authentic Robots and Inauthentic Daseins
15.10-15.50	<b>Chiara Tabet</b> "It's a wonderful model". An investigation into the notion of an "algorithmic explanation" and its computational limits 15.10-15.30	<b>Gordana Dodig-Crnkovic</b>	<b>Viorel Guliciuc</b>
	<b>Patrick Allo</b> A Modal Perspective on Proof Dynamics	Philosophy of Information, a New Renaissance and the Discreet Charm of the Computational Paradigm	Is Internet changing our language (S) ? <u>Canceled</u>

Invited Lecture Location: Aula Goldoniana Chair: Mario Stefanelli

15.50-16.35	<b>Simon COLTON and Alison PEASE</b> Modelling Lakatos's Philosophy of Mathematics		
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16.35-16.50 Coffee Break, Refettorio

Location: Aula Goldoniana  
Session I  
Chair: Claudio PizziLocation: Aula Sandra Bruni  
Session IV  
Chair: Eliano PessaLocation: Salone San Pio  
Session II  
Chair: R. O. Elveton

16.50-17.10	<b>Eduard Barbu</b> An argument against computationalism <u>Canceled</u>	<b>Gordana Dodig-Crnkovic</b> On the Importance of Teaching Professional Ethics to Computer Science Students	<b>Alexander Riegler</b> Is a Closed-Loop Discovery System Feasible?
17.10-17.30	<b>Massimiliano Carrara, Marzia Soavi</b> Ontology for Information Systems. Artefacts as a Case Study	<b>Thomas M. Powers</b> Intentionality and Moral Agency in Computers (Session IV)	<b>Stefania Bandini, Alessandro Mosca, and Matteo Palmonari</b> Intelligent Alarm Correlation and Abductive Reasoning
17.30-17.50	<b>Colin T. Schmidt</b> A Relational Stance in the Philosophy of Artificial Intelligence	<b>T. Otselu Ogbhemhe and T. Imafidon Obaseki</b> Ifa divination and computer science: a case for African tradition	<b>Arturo Carsetti,</b> Rational Perception and Creative Processes in Cognitive Science

Invited Lectures Location: Aula Goldoniana Chair: Arturo Carsetti

17.50-18.50	<b>Giuseppe LONGO</b> Computer Imitation and Mathematical Understanding		
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19.10-20.00  
**Reception:**  
Dipartimento di Filosofia, Piazza Botta 6, phone 0382-506341/506279**Friday 4 June 04**  
**Morning**Location: Aula Goldoniana  
Session I  
Chair: Laura PanaLocation: Aula Sandra Bruni  
Session III  
Chair: Thomas PowersLocation: Salone San Pio  
Session IV  
Chair: Tarja Knuuttila

8.30-8.45	<b>Robert CAVALIER</b> Brief History of CAP		
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8.45-9.05	<b>Susan Stuart</b> Unifying Approaches to the Unity of Consciousness	<b>Ludovica Lumer, Luca De Carli, Davide Gadia, Daniele Marini</b> Revealing colours	<b>Roberto Feltrero</b>
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9.05-9.25	<b>A.M. Stepak</b> Rationalism versus Empiricism: A New Perspective	<b>Antônio Gomes, Ricardo Gudwinì, Charbel Niño El-Hani &amp; João Queiroz</b> Towards Meaning Processes in Computers from Peircean Semiotics	The role of computers in scientific research. A Cognitive Approach
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9.25-9.45	<b>Thessa Lindof</b>  From the Middle Age to Multimedia: How Ramon Llull's Ars Magna can be Revived on the Computer	<b>Gianluca Paronitti</b>  Mechanisms and Simulations	<b>Luciano Celi</b>  Behaviour, mental processes and theories: prisoners in the room of our beliefs (and our computations)
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Invited Lecture Location: Aula Goldoniana Chair: Lorenzo Magnani

9.45-10.45	<b>Roberto CORDESCHI and Guglielmo TAMBURRINI</b> Philosophy of Science and the Ethics of AI and Robotics		
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10.45-11.15 Coffee Break, Refettorio

Location: Aula Goldoniana  
Session II  
Chair: Susan Stuart

Location: Aula Sandra Bruni  
Session I  
Chair: Roberto Cordeschi

Location: Salone San Pio  
Session IV  
Chair: Guglielmo Tamburrini

11.15-11.55	<b>Angelo Loula, Ricardo Gudwin, João Queiroz</b>  From theoretical and empirical constraints to synthetic experiments on symbol-based communication <u>Cancelled</u>	<b>Jean Lassègue</b>  Computable and Non-computable Procedures in Turing's Theory of Mind	<b>Stefan Trausan-Matu</b>  Metaphor Processing in Text Understanding on the Web. A Hermeneutic Approach
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11.55-12.35	<b>Marcello Guarini, Pierre Boulos</b> Problems with Simplicity and Analogy in the Theory of Explanatory Coherence 11-55-12.15	<b>Peter Kühnlein</b>  Computer Science as a Subject Matter for Philosophy of Science	<b>F. Miguel Dionisio, M. Paula Gouveia, João Marcos</b> Defining and using deductive systems with Isabelle 11-55-12.15
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**Andrea Pozzali**  
Can tacit knowledge fit into a computer model of scientific cognitive processes? The case of biotechnology

**Stanislava Mildeová**  
The Interactive Learning Environments Made on a System Dynamics Basis

Invited Lecture Location: Aula Goldoniana Chair: Luciano Floridi

12.35-13.15	<b>Selmer BRINGSJORD, Kostas ARKOUDAS, Paul BELLO, Marc DESTEFANO, Bram VAN HEUVELN, Yingrui YANG</b> Introducing Chogic: A Primitive Part of the MARMML Machine Reasoning System		
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**Afternoon**

Location: Aula Goldoniana  
Session III  
Chair: Selmer Bringsjord

Location: Aula Sandra Bruni  
Session I  
Chair: Luciano Floridi

Location: Salone San Pio  
Session V  
Chair: Jean Lassègue

14.15-14.55	<b>R. O. Elveton</b>  What is Embodiment?	<b>Mathieu Magnaudet</b>  Computing or Dynamics: Does it Matter For a Theory of Mind	<b>Eliano Pessa, Graziano Terenzi</b>  Semiosis in cognitive systems: a neural approach to the problem of meaning
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14.55-15.35	<b>Alberto Faro and Daniela Giordano</b> The role of the internal and external representations in sustaining creative processes	<b>Mark Sprevak</b>  The frame problem and the treatment of prediction	<b>Branden Fitelson, Edward N. Zalta</b> Steps Towards a Computational Metaphysics
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15.35-16.15	<b>Alberto Gatti and Lorenzo Magnani</b>  On the Representational Role of the Environment and on the Cognitive Nature of Manipulations	<b>Edoardo Datteri and Guglielmo Tamburrini</b>  Biorobotic experiments in the scientific understanding of adaptive behaviours: epistemological and methodological issues	<b>William A. Cameron</b> Why cognition can't be computation 15.35-15.55  <b>Evgenii Vityaev, Irina Khomicheva</b> Goodman's Paradox Generalization
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16.15-16.45 Coffee Break, Refettorio

## Saturday 5 June 01 Morning

Location: Aula Goldoniana  
Session III  
Chair: Luciano Floridi

Location: Aula Sandra Bruni  
Session II Special Panel on Abductive Reasoning  
Chair: Thomas Addis

Location: Salone San Pio  
Session I  
Chair: Eliano Pessa

8.45-9.25	<b>Tarja Knuuttila and Timo Honkela</b> Decostructing the external/internal divide: The case of self-organising maps	<b>Giovanni Tuzet</b> Projectual Abduction	<b>Allard Tamminga</b> The Ins and Outs of Mental Properties
9.25-10.05	<b>Brigitte Cambon de Lavalette, Patrick Brézillon, Charles Tijus, Sébastien Poitrenaud, Christine Leproux, Alexandre Lacaste &amp; Marie Bazire</b> External and internal representations of road pictographic signs 9.25-9.45	<b>Lorenzo Magnani</b> Abduction and its distinctions 9.25-9-45	<b>Marvin Croy</b>
	<b>Priscila Farias, João Queiroz</b> Interactive diagrams for Charles Peirce's theory of signs <u>Canceled</u>	<b>Claudio Pizzi and Duccio Pianigiani</b> Serendypian and non-serendypian abduction	Evaluating Traditional, Hybrid, and Distance Approaches to Teaching Deductive Logic (Session V)

Invited Lectures Location: Aula Goldoniana Chair: Susan Stuart

10.05-11-00	<b>Luciano FLORIDI</b> Telepresence - Its Ethical and Epistemological Implications		
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11.00-11.30 Coffee Break, Refettorio

Location: Aula Goldoniana  
Session I  
Chair: Robert Stepak

Location: Aula Sandra Bruni  
Session II  
Chair: Alexander Riegler

Location: Salone San Pio  
Session  
Chair:

11.30-11.50	<b>Paul Schweizer</b> Connectionism Meets the Language of Thought <u>Canceled</u>	<b>Brendan Larvor</b> Why there cannot be a complete science of enquiry	
11.50-12.10	<b>Claudia Arrighi, Roberta Ferrario</b> The dynamic nature of meaning	<b>Stefano Franchi</b> Artificial Intelligence and Philosophy: the case of Simon's AI project	

## Afternoon

Location: Aula Goldoniana  
Session IV  
Chair: Robert Cavalier

Location: Aula Sandra Bruni  
Session I  
Chair: Simon Colton

Location: Salone San Pio  
Session V  
Chair: Roberto Cordeschi

14.15-14:55	<b>Joe Griffin</b> A Very Big Adventure: Using the internet to enable multi-institutional collaboration in teaching computer ethics	<b>Matthew J. Dovey</b> Applications of Anti-Realist Metaphysics to the digital world	<b>Mark Weinstein</b> Emerging Truth: A Metamathematical Model
		<b>Laura Pana</b> Intellectual Techniques, Information Technologies and Cultural Models for the Knowledge Society	<b>Ken Shiotani</b> Computation and Observation: metaphysical implications of executions
14.55-15.15	<b>Lawrence M. Hinman</b> The Case against PowerPoint in the Classroom <u>Canceled</u>	<b>Paolo Ceravolo, Ernesto Damiani</b> Knowledge Representation Progress in the Brief Web History 15.15-15-35	<b>Andrea Manfrinati, Paolo Cherubini, Pierdaniele Giarretta</b> Representation and computation in the understanding of conditionals 15.15-15.35
15.15-15.35			<b>Paola Cattabriga</b> A contradiction in Frege's <i>Grundgesetze</i>

Plenary Lecture Location Aula Goldoniana Chair: Lorenzo Magnani

15.35-16.35	<b>Robert CAVALIER</b> Instantiating Deliberative Democracy: Project PICOLA (Public Informed Citizens Online Assembly)		
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Closing Plenary Session and Discussion

16.35-17.30 R. Cavalier, D. Johnson, G. Longo, L. Magnani, S. Stuart