

ZiF WORKSHOP

**From Computational Creativity To Creativity Science**

Convenors: Prof. Dr. Emiliios Cambouropoulos (Thessaloniki, GRE)  
Prof. Dr. Kai-Uwe Kühnberger (Osnabrück, GER)  
Dr. Oliver Kutz (Bolzano, ITA)

19 – 22 September 2016

SUNDAY – 18 SEPTEMBER

19:30 Informal get-together at restaurant “Wirtshaus 1802 im Bültmannshof”

MONDAY – 19 SEPTEMBER

Welcome Address and Introduction

**S 1: Cognitive Aspects**

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|---------------|--|
| 09:00 – 09:40 | Mark Turner (Case Western Reserve University, Cleveland): New neuroscience as a guide for new computational creativity |
| 09:40 – 10:20 | Emmanuel Sander (Université Paris VIII): Creativity, Inter-category Sliding and Category Broadening                    |
| 10:20 – 10:45 | - <i>Coffee Break</i> -  |
| 10:45 – 10:55 | Kai-Uwe Kühnberger (Osnabrück University): Challenges for Making Cognitive Systems Creative                            |
| 10:55 – 11:15 | Vinod Goel (York University, Toronto): Whence Creativity?: Left Brain Right Brain?                                     |
| 11:15 – 12:30 | Breakout session   |
| 12:30 – 13:00 | Group Reports  |
| 13:00 – 14:00 | - <i>Lunch</i> -   |

**S 2: Formal/Conceptual**

14:00 – 14:40	Ursula Martin (University of Oxford): Creativity and the Future of Proof
14:40 – 15:20	Răzvan Diaconescu (Simion Stoilow Institute of Mathematics, Bucharest): 3/2-Institutions: An institution-theoretic perspective on theory blending
15:20 – 15:45	- <i>Coffee break</i> -
15:45 – 15:55	Marco Schorlemmer (Universitat Autònoma de Barcelona): A Uniform Model of Concept Invention
15:55 – 16:05	Enric Plaza (Universitat Autònoma de Barcelona): Blending and Analogy
16:05 – 16:15	Mihai Codescu (Libera Università di Bolzano): Ontology Alignment in DOL
16:15 – 17:30	Breakout Groups
17:30 – 18:00	Group reports
18:00 –	- <i>Dinner at ZiF</i> -

**TUESDAY – 20 SEPTEMBER****S 5: Practice I**

09:00 – 09:40	François Pachet (Sony CSL, Paris): Creating Music with AI: Highlights of Current Research
09:40 – 10:20	Guerino Mazzola (University of Minnesota, Minneapolis): The Creative Interplay of Gestures and Formulas in Music and Mathematics
10:45 – 10:55	Emilios Cambouropoulos (Aristotle University of Thessaloniki): Musical Creativity and Conceptual Blending: The CHAMELEON harmonisation assistant
10:55 – 11:05	Costas Tsougras (Aristotle University of Thessaloniki): Using and evaluating the CHAMELEON harmonisation assistant
11:05 – 11:15	David Meredith (Aalborg Universitet): Music Analysis and Data Compression
11:15 – 12:30	Breakout Groups
12:30 – 13:00	Group Reports
13:00 – 14:00	- Lunch -

**S 3: Ontologies**

14:00 – 14:40	Nicola Guarino (Italian Research Council - ISTC-CNR, Povo): How events emerge from scenes: an ontological account of the figure-ground distinction for events
14:40 – 15:20	Francesca Lisi (Università degli Studi di Bari Aldo Moro): Ontology reasoning for computational creativity
15:20 – 15:45	- <i>Coffee break</i> -
15:45 – 16:00	Oliver Kutz (Libera Università di Bolzano): Towards a Logic of Image Schemas (Part 1)
16:00 – 16:15	Fabian Neuhaus (Otto-von-Guericke-Universität Magdeburg): Towards a Logic of Image Schemas (Part 2)
16:15 – 17:30	Breakout Groups
17:30 – 18:00	Group reports
19:30 –	- <i>Dinner at restaurant "Brauhaus Joh. Albrecht", Hagenbruchstr. 8</i> -

**WEDNESDAY – 21 SEPTEMBER****S 4: Social/Evaluation**

09:00 – 09:40	Graeme Ritchie (University of Aberdeen): The Instrumentation of Creative Systems
09:40 – 10:20	Liane Gabora (University of British Columbia, Kelowna): Honing Theory: A Complex Systems Framework for Creativity
10:20 – 10:45	- <i>Coffee break</i> -
10:45 – 11:05	Alison Pease (University of Dundee): Social Creativity in Mathematics
11:05 – 11:15	Joe Corneli (Goldsmiths University of London): Embedded Evaluation
11:15 – 12:30	Breakout Groups
12:30 – 13:00	Group Reports
13:00 – 14:00	- <i>Lunch</i> -

**S 5: Social Practice II**

14:00 – 14:40	Tony Veale (University College Dublin): Shaken, Not (Just) Stirred: How Creative Framing Changes Everything
14:40 – 15:20	Philipp Cimiano (Universität Bielefeld): Concept and language learning as a creative process
15:20 – 15:45	- <i>Coffee break</i> -
15:45 – 16:05	Mihailo Antovic (University of Niš): Music, Conceptualization, and the Cognitive Science of Creativity
16:05 – 16:15	Senja Pollak (Jožef Stefan Institute, Ljubljana): Creative Assistant for Scientific Question Generation
16:15 – 17:30	Breakout Groups
17:30 – 18:00	Group reports

**THURSDAY – 22 SEPTEMBER****S 5: Practice III**

09:00 – 09:40	John Bateman (Universität Bremen): Creativity and discourse: addressing the blending 20/20 hindsight problem
09:40 – 10:20	Alan Smaill (University of Edinburgh): Mathematics as a creative enterprise
10:25 – 10:45	- <i>Coffee break</i> -
10:45 – 10:55	Danny Gomez Ramirez (Universität Osnabrück): A Cognitively-Inspired Reformulation of Meta-Mathematics
10:55 – 11:05	Mehul Bhatt (Universität Bremen): Visuo-Spatial Thinking: Notes from the viewpoint of commonsense, craft, creativity
11:05 – 11:15	Tarek R. Besold (Universität Bremen): Computational Creativity's Problem with Problem-Solving
11:15 – 12:30	Breakout Groups
12:30 – 13:00	Group Reports
13:00 – 14:00	- Lunch -
14:00 –	Wrap-up