

Call for Papers

Third International Quantum Interaction Symposium (QI-2009)

March 25 - 27, 2009

German Research Center for Artificial Intelligence (DFKI)
Saarbruecken, Germany

Conference web site: <http://www.dfki.de/~klusch/qi2009>

Aims & Scope: Quantum modeling (QM) based on quantum mechanics is being applied to domains such as artificial intelligence, human language, cognition, information retrieval, biology, political science, economics, organizations, and social interaction. After highly successful meetings at Stanford (2007) and Oxford (2008), the Third International Quantum Interaction Symposium (QI-2009) will bring together researchers interested in advancing and applying the methods and structures of QM to these and other domains outside of quantum physics:

- Advancement of theory and experimentation for applying quantum mechanics to nonquantum domains
- Use of quantum algorithms to address, or to more efficiently solve, problems in nonquantum domains (including contrasts between classical vs. quantum methods)
- Practical applications to quantum domains, such as implementation of AI, or Information Retrieval (IR) techniques, on one or multiple networked quantum computers

The symposium will present research dealing with the use of concepts taken from the general body of research in QM on the physical, epistemological, mathematical or philosophical levels applied to modeling and understanding of phenomena and solving problems in following areas:

- Quantum computing and communication (QCC)
- Language or Linguistics
- AI (Logic, planning, agents and multi-agent systems)
- Cognition, Brain (memory, cognitive processes, neural networks, consciousness)
- Information Processing and Retrieval
- Biological or Complex Systems
- Decision Theory (political, psychological, cultural, organizational, social sciences)
- Finance and Economics (decision-making, mergers, corporate cultures)
- Others

Submission: Potential participants are invited to submit either a FULL paper (up to EIGHT pages), or a POSITION paper (up to FOUR pages). Each submission will be judged by at least two referees on technical merit and its potential to provoke active discussions.

Accepted full and position papers are allowed getting extended up to 12, respectively, 8 pages for their carefully revised and camera-ready version.

The proceedings will be published by Springer Verlag as a volume of the Lecture Notes in Computer Science (LNCS) series. For preparation of (camera-ready) papers to be submitted to the workshop please follow the instructions for authors available at the Springer LNCS Web page. All papers must be written in English. Submission of papers is in PDF format only.

Please submit your paper online at <http://www.easychair.org/conferences/?conf=qi2009>

Important Dates:

Paper Submission: **October 27, 2008, 5pm Berlin (hard) ** Extended Submission Deadline ****
November 26, 2008: Notification on acceptance/rejection.
January 12, 2009: Camera-ready copies and author registration deadline.

Program Co-Chairs:

Peter Bruza (Queensland University of Technology, Australia)
Matthias Klusch (DFKI Saarbruecken, Germany)
William Lawless (Paine College, USA)
Keith van Rijsbergen (University of Glasgow, UK)
Donald Sofge (Naval Research Laboratory, USA)

Program Committee (to be completed):

Diederik Aerts (Free University Brussels, Belgium)
Sven Aerts (Free University Brussels, Belgium)
Salvador Venegas-Andraca (Tecnologico de Monterrey, Mexico)
Belal E Baaquie (National University of Singapore, Singapore)
Peter Bruza (Queensland University of Technology, Australia)
Jerome Busemeyer (Indiana University, USA)
Dagmar Bruss (University of Düsseldorf, Germany)
Stephen Clark (Oxford University, UK)
Bob Coecke (Oxford University, UK)
Charles Fox (Oxford University, UK)
Riccardo Franco (Institute for Scientific Interchange, Italy)
Liane Gabora (University of British Columbia, Canada)
Emmanuel Haven (University of Leicester, UK)
Kirsty Kitto (Queensland University of Technology, Australia)
Andre Khrennikov (Växjö University, Sweden)
Matthias Klusch (DFKI Saarbruecken, Germany)
Pierefrancesco La Mura (Leipzig Graduate School of Management, Germany)
Marco Lanzagorta (ITT Corporation, USA)
William Lawless (Paine College, USA)
Michael Leyton (Rutgers University, USA)
Massimo Melucci (University of Padua, Italy)
Dusko Pavlovic (Kestrel Institute, USA and Oxford University, UK)
Paavo Pylkkänen (University of Helsinki, Finland)
Keith van Rijsbergen (University of Glasgow, UK)
Donald Sofge (Naval Research Laboratory, USA)
Giusseppe Vitiello (University of Salerno, Italy)
Dominic Widdows (Google, USA)
John Woods (University of British Columbia, Canada)

Local Organizing Team:

Lea Schaefer, Patrick Kapahnke, Matthias Klusch (DFKI, Germany)

Steering Committee:

Peter Bruza (Queensland University of Technology, Australia)
William Lawless (Paine College, USA)
Keith van Rijsbergen (University of Glasgow, UK)
Donald Sofge (Naval Research Laboratory, USA)