CALL FOR PAPERS

ERATO Conference on Quantum Information Science 2003 (EQIS'03)

September 4-6, 2003, Kyoto, Japan

Sponsored by ERATO Quantum Computation and Information Project, JST

http://www.qci.jst.go.jp/eqis03/

Conference Chair:

Hiroshi Imai, ERATO/Univ. Tokyo Conference Vice-Chair:

Kazuo Iwama, ERATO/Kyoto Univ.

Keynote Speaker:

Yoshihisa Yamamoto, Stanford Univ.

Invited Speakers:

Andris Ambainis, Univ. Latvia
Charles H. Bennett, IBM
Vladimír Bužek, Slovak Academy Sci.
Kazuo Iwama, ERATO/Kyoto Univ.
Masanao Ozawa, Tohoku Univ.
Martin Plenio, Imperial College
Shigeki Takeuchi, Hokkaido Univ.
Jaw-Shen Tsai, NEC
Harald Weinfurther, München Univ.

Program Committee:

Jozef Gruska, Masaryk Univ., Chair Keiji Matsumoto, ERATO/NII, Vice-Chair Charles H. Bennett, IBM Thomas Beth, Univ. Karlsruhe Osamu Hirota, Tamagawa Univ. Nobuyuki Imoto, SOKEN Masahiro Kitagawa, Osaka Univ. Hoi-Kwong Lo, Univ. Toronto Masanao Ozawa, Tohoku Univ. Masahide Sasaki, CRL/CREST Peter W. Shor, AT & T Labs Reinhard F. Werner, TU Braunschweig

Organizing Committee:

Masahito Hayashi, ERATO, Chair Takeshi Koshiba, ERATO, Vice-Chair Michiyuki Amaike, ERATO Miho Inagaki, ERATO Chie Matsumoto, ERATO Keiji Matsumoto, ERATO/NII Minako Oyama, ERATO Takako Sakuragi, ERATO Shigeru Yamashita, NAIST The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, optics- and nano-technologies. EQIS'03 will be the thrid conference in a series and is to concentrate on theoretical and also experimental aspects of quantum information science. Program of EQIS'03 will consist of invited talks, short communications and posters. Contributions for short communications and posters will be solicited in the research areas related to quantum information science, including, but not limited to:

- design and analysis of quantum algorithms and circuits
- quantum games, and quantum cryptography
- quantum computational and communication complexity
- quantum computing and automata models
- quantum information theory, and quantum entanglement
- quantum fault-tolerant and decoherence-free computations
- quantum continuous variables computations
- quantum geometric and topological computations
- non-standard models of quantum computation
- quantum optics, NMR and solid state technologies
- fermionic, bosonic and anyonic computation

Paper submission: Contributions can be submitted only electronically from

http://www.qci.jst.go.jp/eqis03/

Submission deadline: for oral presentations and posters

July 15

Notification of acceptance and rejection:

August 1

Contact addresses: eqis@qci.jst.go.jp

Selected papers will be published in a special issue of International Journal of Quantum Information (IJQI). Restricted number of local supports for young active participants will be available.

EQIS'03 is accompanied by the following two workshops:

Submission deadline: for oral presentations

• Quantum Information Theory, Sept. 2-3, Niijima Kaikan, Kyoto

Chair: Charles H. Bennett (IBM)

July 15

July 15

http://www.gci.jst.go.jp/eqis03/git-eqis/

• Non-locality of Quantum Mechanics and Statistical Inference Sept. 8-9, Kyoto Sangyo Univ.

Chair: Akio Sakurai (Kyoto Sangyo Univ.)

Submission deadline: for oral presentations and posters

http://www.kyoto-su.ac.jp/ngsi/