QUANTUM INFORMATION AND COMPUTATION WEB-CORNER

(http://www.rinton.com/journals/qic/qic-webcorner.html)

Welcome to the second edition of Quantum Information & Computation's web-corner. On a regular basis, this corner of the journal will offer a selection of web sites and up-dates on quantum information and computation. We have had a good response since the first edition two months ago, and we urge you to continue sending us updates on your web pages. If you encounter an interesting page, a dead link or if you wish to advertise a conference, monograph or group which has a web page, please contact the web-corner at Pieter.Kok@jpl.nasa.gov. This web-corner is also online. If you have visited us be-fore, please note that the address has changed to http://www.rinton.com/journals/qic/qic-webcorner.html.

The corner is divided into four parts: monographs and lecture notes, shorter expo-sitions, groups and conferences. The online version will accumulate all those web sites mentioned in the journal version.

- **Monographs, Lecture Notes and Tutorials**
  This section lists sites which present self-contained texts on quantum information and computation or related areas, for example lecture notes or books.

    - http://www.cs.huji.ac.il/ doria/qcomp.huji2001.html
      Quantum computation lecture notes by D. Aharonov, including homework and links.

- **Expositions and other Relevant Web Sites**
  Many sites offer descriptions of aspects of quantum information, but do not quite fit in the previous section. We include this special section for all those orphan pages which are often beautiful, informative and funny.

    - http://crypto.cs.mcgill.ca/QuCalc/
      Here you can find the Mathematica package "QuCalc". Includes operations like measures, superoperators, POVMs, etc.

- **Research Groups, Consortia and Companies**
  Perhaps this is the most important section of all: how to find those groups which work on the same problem as you do. It is important that this part is as complete as possible, and regularly updated. For this we need your help. If you do not find your group here, please contact the editor.

    - http://www.cpsc.ucalgary.ca/Research/quantum/
      University of Calgary, Canada, Quantum Computing Research Group.

    - http://www.gap-optique.unige.ch/Quantum.asp
      University of Geneva, Switzerland, Quantum Optica Group. This site contains lists of group members, publications, press releases and more.

    - http://www.bldrdoc.gov/timefreq/ion/
      NIST trapped ion experiments on quantum information processing, atomic clocks, and liquid and solid plasmas.

○ http://www.ele.kth.se/QEO/
Royal Institute of Technology, Stockholm, Sweden, Laboratory of Quantum Electronics and Quantum Optics. Includes contact information, staff members and publications.

- **Conferences**
This section contains a list of conferences related to quantum information and computation. The web site also contains links to past conferences, as this might be useful for future reference.

  ○ http://qubit.chem.utoronto.ca/qc-conferences.html
  Daniel Lidar's extensive list of conferences on quantum computation worldwide.

  ○ http://qdqc.is.kochi-u.ac.jp/iwqdqc/
  The first international workshop on quantum dots for quantum computing and classical size effect circuits, Kochi, Japan.
  January 26-28, 2002.

  ○ http://www.research.ibm.com/quantuminfo/qip2002
  Fifth Workshop on Quantum Information Processing IBM Yorktown Heights, New York.
  January 14-17, 2002.

  ○ http://www.quiprocone.org/Torino/index.htm
  European Commision QIPC Workshop, Torino, Italy.
  October 28-31, 2001.

Please continue to send feedback, suggestions and updates to:
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http://www.informatics.bangor.ac.uk/~pieter/