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Preliminary Call for Papers

International Workshop on Frontiers of Information Technology

Islamabad, Pakistan – December 23 - 24, 2003

http://multimedia.ece.uic.edu/IT_workshop

Co-Sponsored by

National Science Foundation (USA)

and

Committee on Science and Technology for the Sustainable Development in the South (COMSATS)

In cooperation with

University of Illinois at Chicago **and** *Purdue University*

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Since the past decade information technology (IT) has been one of the key factors in propelling growth in all sectors of life including science, engineering, commerce, medicine, and defense. As suggested in the 1999 report by the US Presidential Information Technology Advisory Committee (PITAC), "IT will transform the way we live, learn, work, and play." Such a transformation is necessary to meet the technological and socio-economic challenges of the 21st century. Rapid advances in areas such as networking, communication, and computing, demand innovative storage, management, browsing, and communication techniques. Furthermore, education is changing with the advent of new interactive on-line learning technologies, online digital libraries and collaborative workspaces. In this regards design of innovative multidisciplinary curriculums and higher education infrastructures. The workshop will focus on identifying and articulating research and development challenges and agendas in IT in the next decade and beyond and fostering research collaborations among researchers in key IT areas. The theme area chosen for this workshop include the following:

- role of IT in large scale enterprise infrastructure,

- security and protection of IT infrastructure,

- network centric information and computing,

- IT based applications including digital government, e-commerce, e-learning and bioinformatics, and

- Higher education curriculum and research infrastructure for IT.

IT researchers/academicians/practitioners with an interest in any of the above broad IT research areas are invited to submit a technical paper outlining their view of the present status of research in topics related to these broad areas and what they consider to be the most important and promising future research agendas. We encourage magazine style submissions with less focus on deeper technical details and more emphasis on future research problems, their formulations, and issues that need further exploration. The target audience for the

workshop is both researchers and practitioners who are interested in taking part in forming the future IT research agendas and fostering global collaborations especially with researchers in the US and Pakistan.

Participants are invited to submit a full-length paper (no to exceed 20 pages, double spaced 12pt font, including figures and tables) by September 28, 2003. Submitted papers will be accepted for presentation at the workshop on the basis of their originality, relevance, and capacity for stimulating discussion.

For each theme area, multiple sessions will be organized. It is also intended that at the last day of the workshop participants in each workshop theme area will work towards reaching a consensus on the recommendation for appropriate further action (e.g., writing a joint paper, forming a task group, identifying funding opportunities, etc.). The workshop is intended to generate specific interest groups, and that participants will find a way to contribute to any research endeavor emerging as a result.

The workshop will also host keynote addresses at the beginning of each day and two panel discussion sessions will be organized to debate broader IT challenges and issues.

Important dates:

September 28, 2003: Paper submissions due.

November 2, 2003 - Notification of acceptance.

November 24, 2003 – Camera Ready papers due (Format guidelines will be provided at the workshop website: http://multimedia.ece.uic.edu/IT_workshop)

December 23 - 24, 2003 - Days of the workshop

Workshop Chair:

Ashfaq Khokhar, Univ. of Illinois at Chicago

Workshop Co-Program Chairs:

Arif Ghafoor, Purdue University

Junaid Zaidi, COMSAT Institute of Technology

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