

# The 21<sup>st</sup> Scientific Conference for Information Systems and Computer Technology

## The Future of Computing and Information Systems Sciences' Education in Enhancing the Development and Growth of the Nation



Cairo: 7- 8 May 2014

### I. INTRODUCTION:

Computer science and Information systems are new indispensable to the solution of complex problems in every sector, from traditional science and emerging domains to such areas as national security, public health, education, and economic innovation. Advances in computing and connectivity make it possible to develop computational models and capture and analyzed unprecedentedly amount of experimental and observable data to address problems previously deemed intractable beyond imagination. Yet despite the great opportunities and needs, universities and government agencies as well as other organizations have not effectively recognized the significant of computer science and information systems education and training, in either their organizational structures or their research and educational planning. Their inadequacies comprise Egyptian scientific status, economic competitiveness and national security as a whole.

Therefore, universities and government agencies must make coordinated, fundamental, structural changes that affirm the integrated role of computer science and information systems future proper education in addressing the 21st century's most important problems, which are predominantly multidisciplinary, multi-agency, multi-sector, and collaborative.

To initiate the required transformation of the country, all government agencies and other organizations in partnership with academia and industry must also create and execute a multi-decade plan directing coordinated advances in future computer science and information systems education and their application in science, engineering, and other human and social sciences and domains.

Therefore, to fulfill the country's objectives, or country needs to organize and improve its higher education systems in relation to computer science and information systems education, hence, they have undergone profound change and significant progress. Comprehensive computer science and information systems education have been created and implemented in almost all government universities and private academies and institutes of higher education. As computing evolves, so does computer science and information systems education.

This puts continually pressure on computer science and information systems educators to review, revise, and rewrite the courses and curricula. Educators have been rising up to this challenge, creating new courses, introducing innovative ideas and practices into existing courses, regarding the major and carve out the minors. As it is important for every individual today, to have basic knowledge of computers, therefore, their educational curriculum in many disciplines become necessary in today.

I. Conference Objectives: The conference aims to achieve the following:

- Exchange ideas and opinions on the future of computing and information systems sciences education in enhancing the development and growth of Egypt in the 21st century,
- Explore the opportunities to enhance computing and information systems sciences education to suit the international advances and what is available in the advanced countries,

- Focusing computing and information systems sciences education on improving and restructuring the organization of the society to be centered around computing and information systems sciences optimizing and supporting the efficiency and effectiveness of their resources, services/productions, and competitiveness,

II. Conference Themes: The conference is to discuss and cover the following themes:

- Recent Trends in Global Higher Education Tracking the Academic Revolution in Teaching Computing Disciplines,
- The crucial role of Computing sciences in advancing the development of nations,
- Computer Science and Information Systems integrated in everyday life,
- Computational Science ensure Egypt's Growth and competitiveness,
- Computer Science, Information Systems, Information Technology, etc. current curricula,
- Quality, standards and Benchmarks for Accrediting Computing sciences,
- Eligibility procedures and accreditation criteria for computing science,
- Ensuring the effects of computing and information systems sciences on the social, cultural, educational and economic aspects of any nation,
- Exhibiting recent trends in the education of computing and information systems sciences on all educational and training programs' levels and stages,
- Explaining the centralization of computing and information systems sciences in the development of related educational programs, such as Educational Technology, Information Science, Bioinformatics, Artificial Intelligence, Virtual Realities, Cloud Computing, Green Computing,
- Etc.

IV. RESEARCH REPORTS AND PAPERS SUBMISSION:

The papers submissions for the 20th Scientific Conference are to be in the following categories:

- Full-length submissions: Interested experts and researchers may submit a full-length original and previously un-published conceptual or empirical research manuscript for review and de-

cision. Accepted papers will be published in the conference proceedings.

- Research-in-progress submissions: Interested individual researchers who are engaged in postgraduate studies or occupied in research projects for certain enterprises are urged to submit their research plans or projects in progress outcomes.

- Abstracts: All the above submitters of papers should provide and present abstracts of their papers of no more than 100 words indicating the key words to be utilized in the intended papers.

- Paper manuscript Guidelines:

- Manuscripts of full length and in-progress papers should not exceed 15 A4 pages, with a maximum of five figures / tables.

- Papers must be accompanied by a separate cover letter with every

author (s) names, address, phone and fax numbers, e-mail, full

affiliation, the track or theme to which it is submitted. All

correspondences will be sent to the first author unless otherwise

specified.

- Submitters must provide their e-mail address where the

acknowledgement will be forwarded.

- The paper manuscript must contain, in its first page, the paper title,

the author (names, an abstract and a list of keywords.

V. FORMAT FOR PROPOSAL AND FULL PAPER:

- Paper A4 size.

- Margins must be 1 inch.

- Font Face must be “times New Roman” for the Papers written in English, and must be “Simplified Arabic” for the Papers written in Arabic language.

- Font size must be 14 point (Except Paper Title is 18 point and bold).

- Text must be single-spaced.

- Subheadings must be 16 points and bold.

- Must include an ABSTRACT (80 – 150 words in length).

- Submission all proposals and papers must be submitted to the following e-mail address of the organizer of the conference.

- All submitted papers must be electronically in MS Word and submitted electronically.

- The submitted papers must be carefully checked for correct grammar, and spelling.

- Submitters should use the Conference President e-mail addresses

[melhadi@yalla.com],[esisact\_08@yahoo.com] and

[melhadi@sadatacademy.edu.eg].

- All submissions will undergo a double-blind peer review by at least three external scholars’ reviewers.

VI. Deadlines Dates For Abstracts and Reports:

- Abstract Submission Date: 15 March 2014.

- Final Report Submission Date 15 April 2014.

- Abstracts and final reports will be referred by a scientific Committee of this conference.

VII. CONFERENCE PARTICIPANTS and FEES:

All conference participants, including presenters and attendees must register for the conference, and are urged to pay the appropriate voluntary registration fee as follows:

- o Interested individuals 100 Egyptian pounds for each Egyptian participant and 300 US\$ for non-Egyptian citizens.

- o Faculty staff and trainers 50 Egyptian pounds for each person.

- o ESISACT and other Egyptian non-governmental organization members 50 Egyptian pounds for each.

- o University and higher institution students 50 Egyptian pounds each.

- o Presenters and submitters of research papers and presentation reports 300 Egyptian pounds for each paper or report for Egyptians, and 300 US \$ for foreigners.

- o Organizations, institutions, companies and banks membership for 3 persons 300 Egyptian pounds for each organization.

- o Organizations, institutions, companies and banks sponsoring the

Conference at least 2000 Egyptian pounds for each.