

Workshop Website Description

TITLE

Curriculum Design for Computer Engineering and Information Technology

ABSTRACT

Participants attending this conference workshop will learn about the development of computer engineering as well as information technology curricular reports. They will assist in the revision process to update the joint ACM and IEEE documents known as CE2004 and IT2008, respectively. The objective is to ensure that the new documents, CE2016 and IT2017, are forward-looking summaries of educational practices in their respective fields. Although the workshop will have an overarching purpose, participation will first focus on computer engineering and then on information technology.

WORKSHOP CONTENT

The workshop provides an overview of curricular development activities affecting computing and engineering. It will also include discussion surrounding the two areas on ways to generate modern futuristic curricula, principally in computer engineering and information technology. While preliminary investigations found that the documents CE2004 and IT2008 are basically sound, recommended revisions are necessary, given the significant advances in computer engineering and information technology that have occurred in recent years. Through audience participation, the workshop presents the work of the CE2016 and IT2017 steering committees, solicits suggestions for improvement, and share results with professional communities.

WORKSHOP AGENDA

The workshop consists of two ninety-minute segments. Since the two curricular projects are similar in form, the presentation will be in a blended fashion to allow participants to compare and contrast the two activities. During the first segment, discussion will focus on curricular overview and computer engineering; during the second segment, discussion will focus on information technology and overall recommendations from the workshop efforts.

Participant Background

This conference workshop is an effort to engage those interested in computer engineering or information technology curricular activities the opportunity to discuss and evaluate the current CE2016 and IT2017 drafts and to recommend changes for further revisions. Participants should have some background and interest in computing education. The intent is to foster strong interaction in an effort to refine the current bodies of knowledge and associated documents. Participants will become fully engaged in working on some elements of the body of knowledge and on other aspects of the draft documents. Participants have an opportunity to become reviewers of the evolving documents.

Presenter And Brief Bio

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Professor Emeritus John Impagliazzo has supported many educational computing activities that include eighteen books and contributions to model computing and engineering curricula. He was a principal co-author and editor of the *IEEE/ACM Computer Engineering Curriculum Report (CE2004)* and an active participant on the task force that produced the *ACM/IEEE Computing Curricula 2005 Report (CC2005)*. Currently, he is co-chair of the CE2016 steering committee, a member of the IT2017 executive committee, and Editor-in-Chief of *ACM Inroads*. Impagliazzo is a Life Fellow of IEEE, a Distinguished Educator of ACM, and a Fellow of CSAB. He is a member of the Board of Directors of the IEEE Foundation, the ACM Education Board, and the ACM Education Council.