CS202X: Reshaping Computer Science Curricula of Next Decade

csed.hosting.acm.org

Mission
Build upon the last international model curriculum (CS2013), to provide worldwide curricular guidelines for undergraduate programs in computer science for the next decade.

History
ACM and IEEE-Computer Society have a long history of sponsoring efforts to establish international curricular guidelines for undergraduate programs in computing on roughly a ten-year cycle, starting with the publication of Curriculum 68 over 50 years ago. The last complete Computer Science curricular volume was released in 2013 (CS2013).

Deliverables
Computing Curricula Series, including
• the CS202X curriculum report
• a companion volume of richly-researched individually-bylined articles on the state of the practice of Computer Science education

Organization
Steering committee (SC): 19 members from Africa (1), Asia (2), Europe (1), North America (14), and South America (1).
Subcommittees: 18 knowledge areas (KA), each is appointed a subcommittee to produce drafts of this area.
• Chair: each subcommittee is chaired by one SC member, who leads the drafts of this area, and coordinates with other KAs;
• Subject matter experts: each subcommittee has multiple subject matter experts from academia and industry, including at least two SC members, to work together with the chair to produce the drafts;
• Contributors: other experts from the community who provide reviews and feedback to the drafts

List of CS2013 Knowledge Areas
• Algorithms and Complexity (AL)
• Architecture and Organization (AR)
• Computational Science (CN)
• Discrete Structure (DS)
• Graphics and Visualization (GV)
• Human-Computer Interaction (HCI)
• Information Assurance and Security (IAS)
• Information Management (IM)
• Intelligent System (IS)
• Networking and Communication (NC)
• Operating Systems (OS)
• Platform-Based Development (PBD)
• Parallel and Distributed Computing (PD)
• Programming Languages (PL)
• Software Development Fundamentals (SDF)
• Software Engineering (SE)
• System Fundamentals (SF)
• Social Issues and Professional Practice (SP)

Call for Contribution
If you are interested in serving as a subject matter expert or contributor, please contact us.

Contact Us:

Stay tuned with CS202X.

Qiao Xiang, Professor, Xiamen University, CS202X SC member, Subcommittee member of SF (chair), NC, OS, AR, PD, IM. qiaoxiang@xmu.edu.cn