



SE22+: Innovations in Software Engineering Education *Special Track at FIE 2018*



In Fall, 1996, undergraduate students at Rochester Institute of Technology crossed a frontier in education: They entered what would be the first cohort of the first graduating class of the first accredited undergraduate Software Engineering program in the United States [1]. As a way of celebrating the 22nd anniversary of crossing of this frontier in education, [FIE](#) and the [STC for Education](#) are opening an SE22+ submission track at [FIE'18](#) for papers, workshops and panels that report and explore the current frontiers of Software Engineering education worldwide.

This SE22+ track seeks scholarship and innovative strategies for realizing SE Curricula: How are we realizing the curriculum? What are the drivers affecting student learning and the development of software engineering competencies? [2]

In particular, this SE22+ track seeks papers that present research and innovations in SE courses, programs and curricula:

- **SE core-topic courses**, e.g., those that develop Software Requirements Skills, Design Skills, Construction Skills, Testing Skills and Sustainment Skills [2]
- **SE cross-cutting courses**, e.g., those that develop Software Process and Lifecycle skills, Systems Engineering skills, Quality Skills, security skills, safety skills, configuration management skills, and human-computer interaction skills [2]
- **Project-based learning** in SE education
- **Nontechnical competencies** essential to the success of a SE professional
- **Diversity and Inclusion** in SE programs
- **SE Program delivery**, including staffing, retention and staff development
- **SE Competencies**, including ways of defining and utilizing professional competencies in SE education
- **Philosophy of Engineering & Computing** relating how SE relates to the broader traditions of engineering, computing and mathematics

Abstracts for this call should be submitted with the normal call for papers for FIE'18 available at <http://FIE2018.org>. For the convenience of the program committee, please include the phrase "SE+20" in the abstract title.

For information or questions, please contact Steve Frezza, frezza001@gannon.edu

- [1] Vallino, James, "Rochester Institute of Technology Bachelor of Science in Software Engineering CSEE&T Hall of Fame Nomination," in Proceedings of the 30th Conference on Software Engineering Education and Training, Savannah, GA, November 7-9, 2017., pp. 3-4.
- [2] IEEE Computer Society, "Software engineering competency model (SWECOM) version 1.0," 2014. [Online]. Available: <http://www.computer.org/portal/web/pab/SWECOM>