IEEE Education Society

OUR FOCUS

The IEEE Education Society was founded in 1957 as the Professional Group on Education of the Institute of Radio Engineers. It is a worldwide society of thousands of professionals dedicated to ensuring high-quality education in science and engineering. Our members engage students each day, research and propose new theories in learning science, develop new learning technology, and innovate classroom practice. Recent examples of contributions from our community members include:

- the new IEEE Standard 1876 - a standard for networked smart learning objects for online laboratories that defines methods and techniques for offering laboratories as a service (LaaS) over the web,
- the new ABET Cybersecurity Engineering Program Criteria, which help to guarantee that any undergraduate cybersecurity engineering degree program meets accepted standards,
- and special issues of IEEE Transactions on Education (Vol. 61 Issue 4, 2018) and IEEE Latin American Learning Technology Magazine (manuscripts being accepted for publication in 2020), focused on learning science to help ensure success and equity in education for all students within the socio-culturally diverse student body.

We welcome your contributions to our community and hope you can benefit from the dialog the society helps to foster. If you are already working as an educator, or if you are a student considering a future as an educator then we encourage you to join us if you do not already belong to our Society. We hope you will consider us part of your professional network as you progress through your career.

Official Field of Interest

The official IEEE Field of Interest Statement for the Education Society is the theory and practice of education and educational technology involved in the effective delivery of domain knowledge of all fields within the scope of interest of IEEE.

Member Benefits

Membership in our society includes electronic-format copies of IEEE Transactions on Education and IEEE Latin American Learning Technology Magazine (IEEE-RITA). You can also elect a fee-based subscription option to the IEEE Transactions on Learning Technologies if you don't already have access through IEEE Xplore. Plus, we provide online learning opportunities as webinars, open educational resources, or MOOCs. You also can participate in face-to-face learning, networking, and presentation opportunities at member rates at chapter events and five premier international conferences. Learn more about IEEE EdSoc Member benefits on our website at ieee-edusociety.org/about/member-benefits

A Glimpse into Our Professional World

- **Pedagogy**: the theory and practice of education
- **Learning science**: multidisciplinary research into how humans learn
- **Learning engineering**: using the results of learning science to build products and experiences that help humans learn more effectively
- **Learning technologies**: tools that enable information delivery and assessment of students, including networks, applications, learning management systems, and computer-aided learning software
- **Learning management system**: large-scale software products that deliver curriculum, track student progress, assess students through testing, and deliver grades and feedback to students
- **Curriculum**: how material to be learned is organized and presented as modules across the timeline of student engagement in learning
- **Active learning**: integrating student-centered activities into learning experiences to engage and involve students with the material they are studying
- **Flipped classroom**: a technique that requires students to study material before class and then apply their knowledge immediately through problem solving in class
- **MOOC**: Massively Open Online Courses are web-hosted courses designed for the masses and delivered remotely to sometimes millions of people simultaneously
- **Project based learning**: a form of active learning where large projects form the basis of discovery, knowledge application, and solution