

Call For Papers

Special Session: **Talking about Teaching 2019 (TaT'19)**

Title

Talking about Teaching 2019

Acronym

TaT'19

Overview

Smart industries, smart homes, and smart societies bring new challenges to our teaching and learning practices. Solving the engineering problems of tomorrow will require blending new knowledge with established concepts, new skills with proven abilities, and new tools with existing processes. Therefore, the Special Track of the International Society for Engineering Pedagogy (IGIP), Talking about Teaching (TaT'xx), within the annual ICL Conference, provides an opportunity for the engineering education community to debate and share ideas, approaches, developments, and experiences.

The organizers of TaT'19 also invite IGIP working group members to present the results of their activities collaboratively as part of the Special Track.

Topics in TaT'19 are diverse and focused on the improvement of engineering education practices. These might include engineering education resources, the use of technologies for teaching, recognizing diversity and supporting inclusion, professional development for engineering educators, the role of engineering education in STEM learning, and engineering leadership in society.

Topics

Virtual Universities

- Distance education (e-learning and b-learning)
- Sharing resources and OER
- The Role of Technologies in EE
- Increasing multicultural components in EE
- Outreach to the pre-university population
- Learning in MOOCs

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“The Impact of the 4th Industrial Revolution on Engineering Education”

Intercontinental Bangkok, Thailand, 25–28 September 2019

Research in EE

- Development of higher order thinking skills
- Motivational design of engineering courses
- Student mentoring and tutoring
- Scholarship of teaching and learning (SOTL)
- Assessment of learning outcomes
- Evidence-based practices
- K-12 education
- Teachers’ professional development
- International recognition of engineering educators
- Educating T-shaped engineers

Emergent Technologies in EE

- Adaptive learning systems
- Use of haptic information
- Remote and virtual labs
- Virtual and augmented reality
- Learning management systems
- Learning analytics
- Developing tools for children with special needs

University & Industry

- Lifelong learning
- University & industry programs and experiences
- Learning outcomes & employability
- Labor challenges for the future engineers

Program Committee

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