



Call for Papers

Guatemala, Guatemala
March 14-17, 2021



EDUNINE 2021 (V IEEE World Conference on Engineering Education) will be held in a **hybrid format** in **Guatemala City, Guatemala**, the “*land of eternal spring*”, located in Central America, south-east of Mexico, from **March 14 to 17, 2021**, at the headquarters of the **Universidad Galileo**.

*EDUNINE is committed to hosting EDUNINE 2021 next year considering various formats for our in-person conference that was held entirely virtual in 2020. We will have a **hybrid conference with part in person** (if it is allowed by public health guidance) **and part virtual**. We are exploring potential approaches to enhance the **virtual participation**. In this way, we hope to provide an adaptable solution taking into account the diversity of circumstances that can affect our prospective authors and limit their participation in the event.*

The **theme** of this edition is the **Future of Engineering Education: Current Challenges and Opportunities**. Conferences on Education in Engineering, Computing and Technology are more relevant than ever for bridging communities and helping educators and policymakers to find creative and innovative solutions as a response to teaching and learning in the present crisis and in the longer-term future.

EDUNINE is the annual conference of the **IEEE Education Society** organized jointly with **COPEC** for **Region 9 (Latin America)**. This conference is part of the renowned list of regional conferences of this Society that are: **FIE, EDUCON, EDUNINE, and TALE**.

Prospective authors are invited to submit original papers in one of the Submission types: **Full Paper (6 pages)** or **Work-in-Progress Paper (4 pages)**.

Submissions are welcome on a variety of **suggested streams of topics**. We also encourage **contributions** that address the unprecedented disruption caused by **COVID-19** on all aspects of higher education.

All papers must be **written in English** which is the official language of the Conference in order to address a wider audience. The papers will be evaluated by peers based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability.

Accepted and presented papers will be submitted for inclusion in the **IEEE Xplore® digital library**. The **languages for the presentations** are **English** and also **Portuguese** and **Spanish**, corresponding to the most spoken languages in the Latin American region. There will be no poster sessions.

In addition to the **Paper Presentations**, we will offer **Workshops, Plenaries, Panels, and Special Sessions**.

For more information, please see the **conference website**: <https://www.edunine.eu/edunine2021/>
(Contact: edunine@edunine.eu)

✓ New Important Dates

Full/WIP Paper Submission:	November 23, 2020
Acceptance Notification:	December 21, 2020
Final Paper & Registration:	February 10, 2021
Conference:	March 14-17, 2021





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Streams of Topics

- **Moving to Quality & Equitable Engineering, Computing, & Technology (ETC) Distance Learning Solutions during & after COVID-19** (Lesson learned from the implementation of ETC Distance Education at the time of COVID-19):
 - ✓ Transitioning Engineering, Computing, and Technology Education from face-to-face to Distance Learning strategies, equity-focused best practices & experiences;
 - ✓ ETC Distance Education infrastructure, technology & resources for learning, access, inclusion and equity to minimize the educational disruption & digital divide;
 - ✓ Learning design activities, goals, & students' engagement in ETC Distance Education;
 - ✓ Teacher training & support in ETC Distance Education;
 - ✓ Rethinking learning assessment & outcomes, challenges in assessing, testing, & grading student's learning in ETC Distance Education;
 - ✓ Leveraging Programs of Learning Continuity in Humanitarian Emergencies, challenges, advantages, limitations & perspectives on ETC Distance Education;
- **Broadening Learning / Teaching in ETC Education:**
 - ✓ Effective learning activities, innovations, methodologies, & practice in ETC Education;
 - ✓ 21st. Century skills development & competencies in ETC Education (including global and regional competencies);
 - ✓ Student's learning experiences including inclusive learning, gender equality, and special education in ETC Education;
 - ✓ Adult, lifelong learning, & professional development in ETC;
 - ✓ Designing class activities to engage women in ETC Education;
 - ✓ Interdisciplinary, multidisciplinary, & transdisciplinary learning experiences in ETC Education;
 - ✓ Effective learning activities for multicultural inclusion and indigenous perspectives in ETC Education;
 - ✓ New experiences for language learning in ETC Education
 - ✓ Teaching research and innovation in ETC Courses;
 - ✓ Sustainability and ethics in ETC Education.
- **Innovative Learning Spaces in ETC Education:**
 - ✓ Technology blended learning in ETC Education;
 - ✓ Innovative, accessible & inclusive learning environments in ETC Education;
 - ✓ Open and flexible learning spaces in ETC Education;
 - ✓ Infrastructure & educational technologies/ICT applications/open educational resources/ courseware in ETC Education;
 - ✓ Online/E-learning/M-learning spaces in ETC Education;
 - ✓ MOOC (Massive Open Online Course) in ETC Education;
 - ✓ Smart classroom, virtual & remote labs, robotics in ETC Education;
 - ✓ Serious games, game-based learning, and gamification in ETC Education;
 - ✓ X-Reality and immersive learning environments in ETC Education;
 - ✓ Learning spaces for STEM Education in K-12 or Higher Education;
- **Improving Educational Organization Issues of ETC Education**
 - ✓ Curriculum design & development in ETC Education;
 - ✓ National & regional accreditation in ETC Education;
 - ✓ Quality processes at national, regional, & international level in ETC Education;
 - ✓ Assessment & evaluation in ETC Education;
 - ✓ STEM Education in K-12 & Higher Education to engage the young generation and parents in ETC Education;
 - ✓ Staff and teacher education, pedagogy, practice & praxis in ETC Education;
 - ✓ Facilitation / training programs, mentorship, & professional guidance in ETC Education;
 - ✓ Links between research and education in ETC;
 - ✓ Retention & learner-support strategies in ETC Education.