



ASOCIACIÓN TECNOLOGÍA,
APRENDIZAJE Y ENSEÑANZA
DE LA ELECTRÓNICA

XVII International Conference of Technology, Learning and Teaching of Electronics, TAE 2026

Santander, Spain, 1 – 3 July 2026

E.T.S. de Ingenieros Industriales y de Telecomunicación
Universidad de Cantabria



The TAE 2026 Conference invites the teaching, research and professional community to submit contributions on electronics education, understood as a cross-disciplinary field that drives innovation in multiple fields. Although rooted in Industrial Technologies and Information and Communication Technologies (ICT), electronics now plays an essential role in new emerging fields such as cybersecurity, biotechnology, robotics, health and intelligent systems. The congress is designed as a space to discuss, share and plan the future of electronics education and its implications in related areas.

TAE 2026 is a meeting point for teachers, researchers, professionals, institutional leaders and social agents committed to quality, transformative and inclusive technical education. It focuses on teaching, learning, assessment and curriculum design processes, with special attention to their connection with technological innovation, research, professional development, employability and the social challenges of technical education.

Thematic Areas

We encourage proposals that contribute to the debate and continuous improvement of electronics education, its implications in related areas, and its traditional and emerging applications, in the following areas:

Curriculum design, teaching and assessment

- Teaching programmes, teaching-learning methodologies, competency-based assessment.
- Design of study plans adapted to new professional profiles.
- Academic flexibility, career guidance and integration of training pathways.

Analysis of educational policies and institutional strategy

- Impact of educational and regulatory policies on technical studies.
- Institutional strategies for the modernisation and internationalisation of teaching.
- Evaluation of programmes and educational quality in the field of electronics.
- Regional, national, supranational and international calls for proposals.

Open, accessible and digital education

- Open online courses (MOOCs), microcredentials, digital badges, and gamification.
- Inclusivity and accessibility in digital learning environments.
- Blended learning, curriculum scaffolding, virtual platforms, and open content.
- International cooperation and free or low-cost online programmes.

Professional practice and industry integration

- External internships, dual training and applied projects in companies.
- University-industry collaboration models in real contexts.
- Incorporation of technological and innovation challenges into training.

Educational innovation and emerging technologies

- Artificial intelligence applications, secure learning systems, machine learning, and learning science in different educational contexts.
- Digital tools for electronic design and digital material production (CAD, CAE, 3D printing, etc.).
- Use of augmented reality, virtual reality, and digital twins in training environments.
- Remote laboratories, simulators, and interactive technical learning platforms.

Employability, new roles and connection with the environment

- Adapting training to the demands of the current and future labour market.
- Identifying and developing skills for emerging technology sectors.
- Analysis of the professional impact of graduates and the needs of the productive fabric.

Social perspective, inclusion and STEAM vocations

- Promoting STEAM vocations at all stages of education.
- Gender perspective, diversity and equity in technical training.
- Social impact of education in electronics and applied technologies.

Learning analysis and continuous improvement

- Models of learning analysis applied to electronics and related areas.
- The science of learning and its application to pedagogical redesign.
- Large-scale learning assessment, feedback, and student experience.

Important Dates

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| ✓ Abstract submission: | 19 december, 2025. |
| ✓ Notification of acceptance (abstracts): | 17 february, 2026. |
| ✓ Submission of full papers: | 3 march, 2026. |
| ✓ Notification of acceptance: | 7 april, 2026. |
| ✓ Submission of accepted papers: | 29 april, 2026. |



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Meeting of Doctoral, Master's and Undergraduate Students

The TAAE 2026 Conference will feature a Meeting Session for Doctoral, Master's and Undergraduate Students, where students will be able to present their work in progress (doctoral theses, Master's Theses or Final Degree Projects), share ideas and receive feedback. The aim is to create a space for dialogue, networking and research guidance, even for work not directly focused on teaching, provided that it is linked to technologies related to electronics or related areas and their application in training, industry or social impact.

Special Poster Session: Educational and Research Projects

TAAE 2026 will feature a Special Poster Session dedicated to the presentation of educational and research projects aimed at improving teaching, learning and assessment in the field of electronics and related technological disciplines. This session will offer a permanent exhibition throughout the conference, with posters accessible in the exhibition area to encourage their continuous dissemination among attendees. Both ongoing and completed educational research projects may be submitted, as well as innovative teaching or institutional initiatives, even if they are not formally part of R&D calls. Teaching groups, research teams, educational institutions and other entities that develop proposals with an impact on technical training, the integration of educational technologies, career guidance or pedagogical transformation in technical contexts are invited to participate.

Publications

Accepted papers will be published in:

- **Abstract book** with ISBN (in original version: Spanish, Portuguese or English).
- **Proceedings book** with ISBN (in original version: Spanish, Portuguese or English).
- In the **TAAE association's open digital repositories** (respecting the copyright associated with IEEE Xplore).
- Authors who so choose may submit their papers in English for publication in **IEEE Xplore**.
- A selection of the best articles will be proposed in an extended version for publication in the journals **IEEE Transactions on Learning Technologies**, **IEEE-RITA** and **Advances in Distributed Computing and Artificial Intelligence Journal (ADCAIJ)**.

Presentation formats

Oral presentations, demonstrations and posters in the official languages of the conference: Spanish, Portuguese and English. The conference will be held in a hybrid format. Although it will mainly take place in person, presentations will also be accepted for synchronous remote delivery. Guest lectures, working meetings, round tables for reflection and social activities for networking and networking will be organised.

Awards

The TAAE Association will award the following prizes: **Best Oral Presentation Award**, **Best Demonstrator Award**, **Best Poster Award**, **Best Doctoral Thesis/Final Year Project/Master's Thesis Award**, **Best Secondary Education and Vocational Training Award**, **Tomás Pollán 2026 Award**, **Professional Career 2026 Award**, **IEEE WIE 2026 Award**.



Information and contact details

<https://www.congresotaae.es>

secretarytaae@congresotaae.es

taae2026@unican.es

<https://www.asociaciontaae.org>

<https://www.facebook.com/AsociacionTAAE>