

THE 20TH BIENNIAL BALTIC ELECTRONICS CONFERENCE

OCTOBER 6–8, 2026, ESTONIA



TAL
TECH

THOMAS JOHANN
SEEBECK DEPARTMENT
OF ELECTRONICS

PRELIMINARY CALL FOR PAPERS

TECHNICALLY CO-SPONSORED BY
IEEE ESTONIA SECTION



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Cooperation between universities to promote doctoral studies (2021–2027.4.04.24-0003) is co-funded by the European Union

LOCATION AND DATES

- Tallinn, Estonia
- 5 October 2026: Pre-event doctoral school “DeepTech Commercialization”
- 6–8 October 2026: main conference

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WEBSITE AND CONTACT



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CELEBRATING 20 ANNIVERSARY OF INNOVATION IN ELECTRONICS AND EMBEDDED SYSTEMS

The Baltic Electronics Conference 2026 (BEC2026) marks its 20th edition, continuing a proud tradition as a leading event for electronics and embedded systems in the Baltics-Nordics. For nearly three decades, BEC has been the meeting point for academia, industry, and innovators, driving research and technology that shape the future.

WHY CHOOSE BEC2026?

- With 20 editions behind us, BEC offers a proven platform for scientific exchange and visibility in the electronics community
- Hosted in Estonia, one of the world's leading digital nations and a recognized IT innovation hub, BEC2026 connects you to top researchers and companies from the Baltic Sea region, Europe, and beyond
- Present your work across diverse domains: communication and cognitive systems, biomedical systems, cyber-physical and embedded systems, dependability and security, electronics devices and energy conversion technologies, instrumentation and signal processing
- Engage with researchers, industry, and startups, opening doors to collaborations and technology transfer
- Join conversations that matter, i.e. how electronics can enable sustainable, resilient, and intelligent systems for tomorrow
- Celebrate the 20th edition milestone with exclusive sessions and a vibrant social program
- BEC2026 is especially designed to empower PhD students and young professionals through free registrations, dedicated activities, mentoring sessions, and networking opportunities that accelerate careers and foster innovation

BEC2026 is more than a conference, it is a unique platform to showcase your research, influence future technologies, and be part of a 20-edition legacy of innovation!

KEYNOTES: Distinguished keynote speakers from academia and industry will share their insights on the latest developments and future trends in electronics and embedded systems. Details will be announced later.

TOPICS:

- **Communication and Cognitive Systems:** Includes but is not limited to: emerging technologies for 5G/6G, IoT, vehicular and aerial networks, network automation, RF and optical aspects, security and privacy, machine learning for wireless applications, and related implementation challenges. *Visit the conference website*
- **Embedded and Cyber-Physical Systems:** Includes but is not limited to: hardware and software design, integration, validation, secure and low-power architectures, multi-core and adaptive systems, real-time applications, and embedded AI/ML technologies. *Visit the conference website*
- **Power Electronics and Sustainable Energy Systems:** Includes but is not limited to: on power converters, control and modeling of electronic systems, renewable energy integration, smart grids, electric vehicles, advanced materials and devices, energy harvesting, and high-efficiency solutions. *Visit the conference website*
- **Sensing, Data Acquisition, and Intelligent Signal Processing:** Encompasses sensors, instrumentation, measurement systems, signal and image processing, remote sensing, navigation and positioning, radar and sonar, structural health and condition monitoring, and related hardware and software integration. *Visit the conference website*
- **Bioinstrumentation, Smart Materials, and Adaptive Automation:** Includes but is not limited to: adaptive automation for liquid handling and bioanalysis, machine learning for instrument control and image analysis, nanomaterials and smart surfaces for biosensing, printed electronics, portable platforms such as Lab-on-a-Chip and wearables, and electrode surface functionalization. *Visit the conference website*
- **Cybersecurity:** cybersecurity issues across all the other above topics. *Visit the conference website*

PRE-EVENT DOCTORAL SCHOOL ON “DEEPTech COMMERCIALIZATION”

- On 5 October 2026
- For PhD students and Young Professionals
- Defence tech, Medtech, xTech, Entrepreneurship

IMPORTANT DATES

Deadline for papers submission	May 25, 2026
Notifications	June 20, 2026
Final papers	August 31, 2026
Deadline for early bird registration	August 31, 2026
Deadline for regular registration	September 18, 2026
Conference dates	October (5), 6–8, 2026

PUBLICATION

- Accepted papers will be submitted for possible inclusion into IEEE Xplore
- Special issue(s): work in progress

CONFERENCE FEES

Early Bird Supervisor Discount (Estonian Universities)*	0.00 € (free)
Early Bird Student Ticket (Worldwide, incl. PhD)**	0.00 € (free)
Early Bird IEEE Member Ticket (Regular Participant)	350 €
Early Bird Non-IEEE Member Ticket (Regular Participant)	400 €
Extra Pages for Proceedings, per page (max 2 pages)	100 €
Additional guest on October 6 at Restaurant Noho ticket	100 €
Additional guest on October 7 at Lennusadam ticket	100 €

* This free ticket is available for supervisors from Estonian universities.

** This free ticket is available for all Master's and PhD students worldwide.

These offers are made possible through project funding supporting the event.

All registrations include participation in the full conference program (including special sessions), the welcome event on October 6 at Restaurant Noho, access to conference materials, and the social event on the evening of October 7 at Lennusadam – the Seaplane Harbour.

Accommodation at the Nordic Hotel Forum is included for participants from outside Tallinn who require it, (except October 5, 2026 “DeepTech Commercialization” Day in TalTech Student House (pre-day)).