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# Proceedings of the 10th Graz Brain-Computer Interface Conference 2026

Science or Application?

September 14-17, 2026  
Graz University of Technology, Austria

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Edited by  
Gernot R. Müller-Putz, Kyriaki Kostoglou, Markus E. Oberndorfer, Selina C. Wriessnegger

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## Impressum

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## Welcome Note

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### Science or Application?

This year's conference theme, "Science or Application?", reflects a central question in the brain-computer interface (BCI) field. BCI research increasingly spans fundamental neuroscience, methodological development, and translation into real-world and clinical applications. The 10th Graz Brain-Computer Interface Conference (GBCIC2026) invites the community to explore how scientific discovery and application can complement and strengthen each other.

GBCIC2026 provides a platform for scientific exchange among researchers from the international BCI community. Contributions cover a broad range of topics, from basic research and signal processing to neural interfaces, rehabilitation, adaptive neurotechnologies, and clinical translation. Accepted papers have undergone peer review and will be published openly by Verlag der TU Graz.

As an endorsed event of the BCI Society, GBCIC2026 offers a diverse program including Satellite Events, talks, poster sessions, and keynote lectures. We are very pleased to welcome Marie-Constance Corsi, Michael Tangermann, Stanisa Raspopovic, Kai J. Miller, and Gernot R. Müller-Putz as keynote speakers. Their talks reflect the breadth of the field, from fundamental principles and interpretable BCIs to clinical translation and adaptive neurotechnologies.

The year 2026 also marks 35 years of Graz BCI research, making this edition a special milestone for our community.

We wish all participants an exciting and stimulating Graz BCI Conference 2026!



Gernot R. Müller-Putz  
Conference Chair

## Editorial Board

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Prof. Dr. **Gernot Müller-Putz** is head of the Institute of Neural Engineering and its associated Laboratory of Brain-Computer Interfaces. He received his MSc in electrical and biomedical engineering in 2000, his PhD in electrical engineering in 2004 and his habilitation and “*venia docendi*” in medical informatics from Graz University of Technology in 2008. Since 2014 he is full professor for semantic data analysis. He has gained extensive experience in the field of biosignal analysis, brain-computer interface research, EEG-based neuroprosthesis control, communication with BCI in patients with disorders of consciousness, hybrid BCI systems, the human somatosensory system, and BCIs in assistive technology over the past 27 years. He has also managed several national projects (State of Styria) and international projects (Wings for Life, EU Projects) and recently coordinated the EU Horizon 2020 project MoreGrasp. Furthermore, he organized and hosted seven international Brain-Computer Interface Conferences over the last 25 years in Graz, the next one (10th GBCIC) in Sept. 2026. In 2014/15 he was Guest editor in chief of a special issue of the Proceedings of the IEEE “The Plurality of Human Brain-Computer Interfacing”. Since August 2019 he is Speciality Editor in Chief of Frontiers in Human Neuroscience: Brain-Computer Interfaces. He is Associate Editor of IEEE Reviews in Biomedical Engineering. He has authored more than 215+ peer reviewed publications and more than 210+ contributions to conferences which were cited more than 31700 times (h-index 83). In 2015, he was awarded with an ERC Consolidator Grant “Feel your Reach” from the European Research Council. In May 2017 he received the Ludwig-Guttman Award from the German Medical Spinal Cord Injury Association (DMGP). From 2018 he part of the Board of Directors of the International Brain-Computer Interface Society and served as Treasurer until June 2025. In May 2019 he received a research award from the State of Styria “Digitalisierung in der Wissenschaft”. He is founding member and scientific Co-Director of the NeurolS Society. Since 2024 he is board member of the Austrian Society for Biomedical Engineering. With October 2023 he was elected to be the Dean of the Faculty of Computer Science & Biomedical Engineering. In autumn 2025 he was elected Fellow of the International Academy of Medical and Biological Engineering.

**Selina Christin Wriessneger** is Associate professor and deputy head at the Institute of Neural Engineering (BCI-Lab), Graz University of Technology, Austria. From 2001 to 2005 she was PhD student at the Max-Planck-Institute for Human Cognitive and Brain Sciences Munich and received her PhD from the Ludwig-Maximilians University Munich, Germany. During that time, she spent one year in Rome as research assistant at IRCCS (Fondazione Santa Lucia), Laboratory for Human Psychophysiology. From 2005 to 2008 she was university assistant at the University of Graz, section neuropsychology. From 2009 until 2016 she was senior researcher at the Institute of Neural Engineering (BCI-Lab). In 2017 she was visiting professor at SISSA (Scuola Internazionale Superiore di Studi Avanzati), Trieste and in 2018 & 2019 she was guest professor in Padova. She received her *Venia docendi* in “Cognitive Neuroscience” from Graz University of Technology in March 2020. Her research interests are, neural correlates of covert actions, passive BCIs, VR-based neuroadaptive systems, affective computing, neuroscience of art and mental state detection.

**Kyriaki Kostoglou** received her diploma degree in Electrical and Computer Engineering from Aristotle University of Thessaloniki (AUTH), Greece and her M.Sc. degree in Computer Engineering from University of Cyprus (UCY), Cyprus. In 2017, she completed her Ph.D. studies and received her Ph.D. degree from the Department of Electrical and Computer Engineering, McGill University, Canada. The topic of her Ph.D. thesis was the identification of multiple-input time-varying systems and binary response systems for biomedical applications. She worked as a postdoc researcher in medical ultrasound imaging at the Institute of Signal Processing, Johannes Kepler University, Linz, Austria. Currently she is a postdoc at the Institute of Neural Engineering, Graz University of Technology, Graz, Austria. Her current research interests include system identification and signal processing for biomedical applications and brain computer interfaces.

**Markus Erwin Oberndorfer** is univ. assistant at the Institute of Neural Engineering, Graz University of Technology, Austria. Currently he is working towards his PhD degree in Biomedical Engineering.



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We are very grateful to all reviewers for their help, to make this conference a success!

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