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**SAMI 2026**

IEEE 24<sup>th</sup> World Symposium on Applied Machine Intelligence and Informatics

## PLENARY TALK

### Title

**Empowering Autonomous Systems with Multi-Modal Semantic Communication and Computing**

### Speaker

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### Short CV

Zdeněk Bečvář is Full Professor at the Department of Telecommunication Engineering, Czech Technical University in Prague, and he leads 6Gmobile research lab at the same university. He received M.Sc. and Ph.D. in Telecommunication Engineering from CTU in 2005 and 2010, respectively. From 2006 to 2007, he joined the Sitronics R&D center in Prague as a PhD student focusing on speech quality in VoIP. Furthermore, he was involved in research activities of the Vodafone R&D center at CTU in 2009. He was on internships at Budapest Politechnic, Hungary (2007), CEA-Leti, France (2013), and EURECOM, France (2016, 2019, 2023). From 2013 to 2017, he was a representative of CTU in ETSI and 3GPP standardization organizations. He published more than 100 conference and journal papers and he is (co-)inventor of four US patents. He is recipient of best paper award at European Wireless 2017 and of bronze medal at ACM Mobicom App contest 2015. He received the Exemplary reviewer award and the Best Editor award from IEEE Wireless Communications Letters in 2020 and 2024, respectively.

### Keywords

- Explain SemCom and computing
- Introduce challenges related to multiple modalities
- Outline selected practical use-cases (e.g., autonomous vehicles, collaborative robotics,...)
- Show solutions and some results



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