



Future Communications and AI in Radio, Fiber, Satellite and Radar Systems

BME VIK HVT mini-seminar

27-28 November 2025, Budapest, Hungary.

Planned agenda

1st day time hosts institution	Thursday, 27 th November 2025. 27 th Nov. 2025, 14:00 – 19:00 Dr. Attila Hilt (+36 20 936 9486) and Prof. Tibor Berceli BME, Budapest University of Technology and Economics (Budapesti Műszaki és Gazdaságtudományi Egyetem) VIK, Faculty of Electrical Engineering and Informatics (Villamosmérnöki és Informatikai Kar) HVT, Department of Broadband Infocommunications and Electromagnetic Theory (Szélessávú Hírközlés és Villamosságtan Tanszék)
venue	1111 Budapest, Egry József utca 18, Hungary building V1, room 502
2nd day institution	Friday, 28 November 2025. Nokia, Nokia Solutions and Networks Kft.
venue	Nokia Skypark, 1083 Budapest, Bókay János utca 36-42, Hungary
time: tba	Nokia Cloud Laboratory visit (due to security and fire emergency reasons preliminary registration is required at the hosts)
14:00-14:15	Meeting and welcome in V1 502
14:15-14:45	Design of Dense Fiber-Wireless System with Load Consideration
authors	Prof. Syamsuri Bin Yaakob, Mahfida Amjad Dipa University Putra Malaysia, Malaysia
presenter	Prof. Syamsuri Bin Yaakob, invited speaker
14:45-15:05	Preliminary results of water attenuation on microwave antennas
authors	Tran Tra My (BME VIK HVT), Dr. János Bitó (BME VIK HVT)
presenter	Tran Tra My



15:05-15:20	break
15:20-15:50	High-Capacity Fiber Link with Double Polarization
authors	Prof. Tibor Berceli (BME VIK HVT)
presenter	Prof. Tibor Berceli, invited speaker
15:50-16:20	BER Degradation-based Selectivity Scanning of Microwave and Millimeter-wave Digital Radio Receivers
authors	Attila Hilt (BME VIK HVT / Nokia), Andrea Farkasvölgyi (BME VIK HVT), László Csurgai Horváth (BME VIK HVT),
presenter	Dr. Attila Hilt
16:20-16:30	break
16:30-17:00	Development of Satellite Systems: Possibilities and Dangers
authors	Andrea Farkasvölgyi (BME VIK HVT), László Csurgai Horváth (BME VIK HVT), Attila Hilt (BME VIK HVT)
presenter	Andrea Farkasvölgyi, invited speaker
17:00-17:30	From RCS Scattering to Intelligence: AI-Based Target Classification in Future Radars
authors	Aysu Coşkun (BME VIK HVT), Dr. Sándor Bilicz (BME VIK HVT)
presenter	Aysu Coşkun, invited speaker
17:30-17:55	Phase-Equivalent Modeling of PCB-Integrated High Frequency Waveguides
authors	László Bányász (BME VIK HVT), Lajos Nagy (BME VIK HVT)
presenter	László Bányász
17:55-18:00	break, walking down to 2 nd floor
18:00-18:50	OMT laboratory visit (optional for the participants)
room	BME V1, 2 nd floor

Note: participation is free of charge on any days, but e-mail registration is required at: attila.hilt@nokia.com.