



8TH IEEE SUMMER SCHOOL ON ANTENNAS, PROPAGATION, AND RFID APPLICATIONS BUCHAREST, SEPTEMBER 8-9, 2026

Faculty of Electronics, Telecommunications and Information Technology, POLITEHNICA Bucharest

PROGRAM

Tuesday, September 8, 08:30 – 09:00	REGISTRATION	Hall A101 - entrance
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Tuesday, September 8, 09:00 – 09:30	GRAND OPENING CEREMONY	Hall A101
8TH IEEE SUMMER SCHOOL ON ANTENNAS, PROPAGATION, AND RFID APPLICATIONS		
Welcome messages:	Mihnea Udrea <i>Dean, Faculty of Electronics, Telecommunications and Information Technology, POLITEHNICA Bucharest</i> Răzvan D. Tamaș <i>President, Romanian Association on Antennas and Propagation; Founder, IEEE Romania Section AP-S/CRFID Joint Chapter</i> Grigore Stamatescu <i>Chair, IEEE Romania Section</i> Teodor Palade <i>Chair, IEEE Romania Section - AP-S/CRFID Joint Chapter, Technical University of Cluj-Napoca</i> Răzvan Mihai <i>Orange România</i> Răzvan Crăciunescu <i>General Chair; Vice-Dean, Faculty of Electronics, Telecommunications and Information Technology, POLITEHNICA Bucharest</i> Andrei Anghel <i>General Chair, POLITEHNICA Bucharest; Chair, IEEE GRSS Romania Chapter; Chair, IEEE AESS/VTS Romania Joint Chapter</i>	

Tuesday, September 8, 09:30 – 10:50	LECTURES	Hall A101
09:30 – 10:10	Antennas: fundamentals of radiation and characteristics	Prof. Răzvan D. Tamaș Constanța Maritime University; President & Founder, Romanian Association on Antennas and Propagation
10:10 – 10:50	Linear Antenna Arrays	Assoc. Prof. Remus Cacoveanu POLITEHNICA Bucharest, Romania

Tuesday, September 8, 10:50 – 11:10	COFFEE BREAK	Hall A101
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Tuesday, September 8, 11:10 – 13:10	LECTURES	Hall A101
11:10 – 11:50	Direction Finding for Automotive Imaging Radar: Technologies, Algorithms, and Applications in Autonomous Driving	Dr. Filip Roșu NXP Semiconductors, Romania
11:50 – 12:30	Spaceborne transmitter/stationary receiver bistatic SAR imaging	Prof. Andrei Anghel POLITEHNICA Bucharest, Romania
12:30 – 13:10	Introduction to Polarimetric SAR	Dr. Mădălina Ciucă POLITEHNICA Bucharest, Romania

Tuesday, September 8, 13:10 – 14:10	LUNCH	Outside Hall A101
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Tuesday, September 8, 14:10 – 15:10	TRAVEL TO ORANGE ROMANIA (ORO, Tandem Building)	–
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Tuesday, September 8, 15:10 – 17:30	LECTURES	Orange Romania (ORO), Tandem Building
15:10 – 16:30	Introduction to 5G Telecom Networks	Orange România Radio Engineer (Core / Transmission)
16:30 – 17:00	4G/5G Radio Coverage Planning Using Specific Tools	Orange România Radio Planning & Optimization Engineer
17:00 – 17:30	Proactive Performance Analysis of Mobile Communication Services Using AI	Orange România Data & AI Engineer

Note: this session takes place on-site at Orange Romania's Tandem Building (ORO), rather than at POLITEHNICA Bucharest; timings are approximate and may be adjusted by the host.

Wednesday, September 9, 09:00 – 10:20	LECTURES	Hall A101
09:00 – 09:40	Mathematics of interference: From Sine Waves to Beam Synthesis	Dr. Teodor Petrița Politehnica University of Timișoara, Romania
09:40 – 10:20	Enhancement of 5G Systems using Massive MIMO and Beamforming Technologies	Asist. Univ. Drd. Ing. Cristina M. Andraș Politehnica University of Timișoara, Romania

Wednesday, September 9, 10:20 – 10:40	COFFEE BREAK	Hall A101
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Wednesday, September 9, 10:40 – 12:00	LECTURES	Hall A101
10:40 – 11:20	Introduction to ISAC Technology with Industrial and Defense Applications	Orange România R&D / Innovation Engineer
11:20 – 12:00	Advanced RF Power Amplification and Combining Techniques for Modern Communications	Prof. Florin Alexa Politehnica University of Timișoara, Romania

Wednesday, September 9, 12:00 – 13:00	LUNCH	Outside Hall A101
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Wednesday, September 9, 13:00 – 14:20	LECTURES	Hall A101
13:00 – 13:40	Microstrip technology design and electromagnetic near-field characterization of metasurfaces by infrared thermography	Prof. Ladislau Matekovits Politecnico di Torino, Italy / Politehnica Timișoara, Romania Prof. Simona Miclăuș "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
13:40 – 14:20	Trends in Science and Technology - Innovation Development Objectives	Senior Researcher Ștefan Cantaragiu Member of the Academy of Romanian Scientists

Wednesday, September 9, 14:20 – 14:30	BREAK	Hall A101
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Wednesday, September 9, 14:30 – 15:30	HANDS-ON SESSIONS		Rooms B02 / A312 / A313
14:30 – 15:30	Group 1 – Introduction to Radar Systems	Radu Otopoleanu & Ana Damian	Room B02
	Group 2 – 5G Passive Radar	Theodor Fratu-Halunga	Room A312
	Group 3 – Development of IoT Systems for High-Altitude Atmospheric Sounding	Alexandru Tapu	Room A313

Wednesday, September 9, 15:30 – 16:30	HANDS-ON SESSIONS		Rooms B02 / A312 / A313
15:30 – 16:30	Group 1 – 5G Passive Radar	Theodor Fratu-Halunga	Room A312
	Group 2 – Development of IoT Systems for High-Altitude Atmospheric Sounding	Alexandru Tapu	Room A313
	Group 3 – Introduction to Radar Systems	Radu Otopoleanu & Ana Damian	Room B02

Wednesday, September 9, 16:30 – 17:30	HANDS-ON SESSIONS		Rooms B02 / A312 / A313
16:30 – 17:30	Group 1 – Development of IoT Systems for High-Altitude Atmospheric Sounding	Alexandru Tapu	Room A313
	Group 2 – Introduction to Radar Systems	Radu Otopoleanu & Ana Damian	Room B02
	Group 3 – 5G Passive Radar	Theodor Fratu-Halunga	Room A312

Note: hands-on labs take place only on Wednesday, in three parallel tracks (Introduction to Radar Systems, 5G Passive Radar, and Development of IoT Systems for High-Altitude Atmospheric Sounding), each limited to a maximum of 12-14 students at a time. Groups 1, 2 and 3 rotate across the three 1-hour time slots so that each group attends all three labs. The list of students in each group is given at the end of this document.

Wednesday, September 9, 17:45	CLOSING CEREMONY	Hall A101
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Note: this programme (dates, order, and room assignments) is subject to change; the final version will be published closer to the event.

Hands-on Session Groups

Group 1 (14)	Group 2 (13)	Group 3 (13)
Adelina Maria Bahacencu <i>Constanța Maritime University</i>	Ana-Maria Ciorchină <i>Politehnica University Timișoara</i>	Otilia Tanasa <i>"Nicolae Bălcescu" Land Forces Academy</i>
Daria Maria Dobre <i>Constanța Maritime University</i>	Teodor Gabriel Stoichițoiu <i>Politehnica University Timișoara</i>	Marian Toma <i>"Nicolae Bălcescu" Land Forces Academy</i>
Sinem Osman <i>Constanța Maritime University</i>	Andi Tăurescu <i>Politehnica University Timișoara</i>	Constantin Dovleac <i>"Nicolae Bălcescu" Land Forces Academy</i>
Mihai Octavian Ambrose <i>Constanța Maritime University</i>	Alexandru Mihai Samson <i>Politehnica University Timișoara</i>	Daniel Florin Ion <i>"Nicolae Bălcescu" Land Forces Academy</i>
Teodor Odică <i>Constanța Maritime University</i>	Lucian Țurăi <i>Politehnica University Timișoara</i>	Anelisse Sofia Stănescu <i>POLITEHNICA Bucharest</i>
Alex Ștefan Maxim <i>Constanța Maritime University</i>	Alexandru Virici <i>Politehnica University Timișoara</i>	Georgiana Ana Gioroc <i>POLITEHNICA Bucharest</i>
Sebastian Ureche <i>Constanța Maritime University</i>	Adelin Marian Dovlete <i>Politehnica University Timișoara</i>	Mihaela Adriana Taranu <i>POLITEHNICA Bucharest</i>
Cătălin Ioan Checherita <i>Constanța Maritime University</i>	Daniel Adrian Petrescu <i>POLITEHNICA Bucharest</i>	Andreea Maria Galea <i>POLITEHNICA Bucharest</i>
Bogdan Mihai Schneider <i>POLITEHNICA Bucharest</i>	Radu Tudor Pîrvu <i>POLITEHNICA Bucharest</i>	Sergiu Ion <i>POLITEHNICA Bucharest</i>
Iulian Nicolae Petriia <i>POLITEHNICA Bucharest</i>	Larisa Andreea Prodan <i>POLITEHNICA Bucharest</i>	Mihnea Ionuț Bujgoi <i>POLITEHNICA Bucharest</i>
Nicolae Sebastian Gramescu <i>POLITEHNICA Bucharest</i>	Victor Dorca <i>POLITEHNICA Bucharest</i>	David Daniel Simionescu <i>POLITEHNICA Bucharest</i>
Denis Constantin Băran <i>POLITEHNICA Bucharest</i>	Andrei Codruț Alba <i>POLITEHNICA Bucharest</i>	Dragoș Rotundu <i>POLITEHNICA Bucharest</i>
Luca Dumitrescu <i>POLITEHNICA Bucharest</i>	Alicea Maria Ciobotea <i>POLITEHNICA Bucharest</i>	Marius Radu Oprea <i>POLITEHNICA Bucharest</i>
Dorothea Pațachia Sultănoiu <i>POLITEHNICA Bucharest</i>		