IEEE-EURASIP Summer School on Signal Processing

S3P-2026

FINAL REPORT

The 2026 edition of the International Summer School on Signal Processing was held in Venice, at the premises of Venice International University (San Servolo island), jointly organized by the Universities of Trento, Padova and Udine. The subtitle of the School this year was “From Signals to Foresight”, underscoring its emphasis on the evolving interplay between Signal Processing and Artificial Intelligence.

The school lasted 5 full days (Aug. 24-28, with arrival on Aug. 23) and covered several interconnected topics, aimed at exploring the complex relationships between multimedia signal processing and machine learnirng, examining how methods from each field can mutually benefit one another.

The total number of students attending the school was 38, including PhD students, post-docs, young researchers as well as some undergraduate students. The students came from various qualified Universities in Italy, Europe and South Corea.

The program of the school included talks from 9 highly qualified speakers:

Prof. **Anderson Rocha** (University of Campinas (Unicamp), Campinas, SP, Brazil – Course Title: "AI as a Guardian: From Proactive Health and Wellbeing to Digital Integrity"

Dr. **Ioannis Katsavounidis** (Video Infrastructure, Meta) – Course title: "Optimization of video streaming - from past to future"

Prof. **Laura Toni** (University College London (UCL), UK) – Course title: "Graph signal processing toward graph generative models"

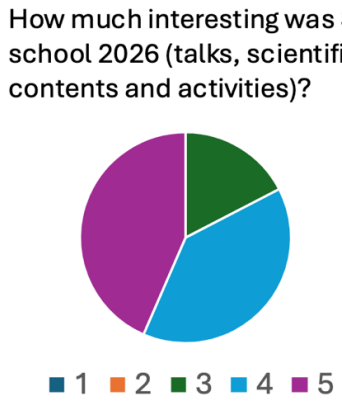
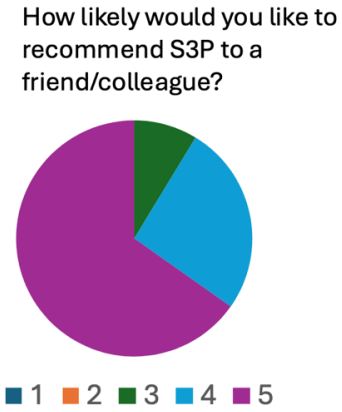
Prof. **Eckehard Steinbach** (Technische Universität, München, Germany) – Course Title: "Encoding Touch: Acquisition, Compression, and Delivery of Haptic Signals"

Prof. **Giulia Boato** (University of Trento, Italy) – Course Title: "Don't Guess, Escalate: Towards Explainable Uncertainty-Calibrated AI Forensic Agents"

Dr. **Vasileios Mezaris** (Information Technologies Institute ITI-CERTH, Greece) – Course title: "Foundation models for video understanding tasks"

Prof. **Mirco Ravanelli** (Concordia University, Université de Montréal, Canada) and Dr. Maurizio Omologo (former Amazon Inc.) – Course title: "Compact audio and speech representations"

Prof. **Gul Varol** (École des Ponts ParisTech ENPC, France) – "Course title: Generating 3D Human Motion with Language"

A special session was dedicated to the presentations by PhD Students, where they had the opportunity to share their work with the other attendees through some pitches and to discuss it teachers and experts. At the end of the program, students had also the possibility to check their understanding of the topics with a short auto-evaluation test.

A polling on the perceived quality of the school was presented to the attendees, with the following results (only charts referring to the scientific quality are reported here). The average MOS reported a value of 4,21/5.