EUSIPCO 2025, the European Signal Processing Conference, brought together researchers, engineers, and practitioners from Europe and the entire world to explore the latest advancements in these fields. Held in the Saracen Sands Hotel, Isola Delle Femmine, Sicily, Italy, the conference featured a diverse range of sessions covering topics such as audio and speech processing, signal processing theory and methods, machine learning for signal processing, and applications in areas such as automotive radar, integrated sensing and communications, and autonomous driving in general. Attendees had the opportunity to engage in lively discussions, present their cutting-edge research, and collaborate on innovative solutions to pressing challenges in signal processing and related domains. In addition, ICASSP 2024 provided a stimulation platform for knowledge exchange and networking among experts in the academy and industry.

The conference consisted of workshops, tutorials, lecture sessions and poster sessions, and programs. The full program schedule can be found here. On Monday, September 8th, I attended the Best Student Paper Competition. In this workshop, I was exposed to many new works and ideas by other research groups. However, one particular work that stood out in this session was “Measure Transform SOBI” by Sapir Shem-Tov, Dr. Igal Bilik, and Prof. Kobi Todros. This work has won the second-best paper in the competition. On Tuesday, September 9th I attended poster sessions: SPMuS-P2: Radar signal processing and applications, SPCN-P1: Estimation and detection, and TMTSP-P2: Detection and estimation methods. These sessions revealed many interesting topics. Some works that I was inspired by were "A Waveform Model for Bistatic Radar With Arbitrary Long Coherent Processing Interval" by Tomas McKelvey and Patrik Dammert from Chalmers University of Technology, Gothenburg, Sweden, and “Adaptive Frequency-Domain Block Correlators For Range Processing in Digital Automotive Radars” by Hanqing Wu, Prof. Geert Leus, and Ashish Pandharipande from NXP Semiconductors, Netherlands, and Delft University of Technology, Netherlands. On Wednesday, September 10th, I participated in the 3MT thesis competition for Ph.D. students, were I presented my research in under three minutes using only one single static slide. This experience was very learning and challenging, and eventually I’ve won third place. On Thursday, September 11th I attended SS17: Advanced signal processing for distributed coherent and non-coherent antennas arrays and its application, and SPCN-P2: Multi-Antenna Systems. A specific work that impressed me were “Channel Estimation for RIS via Tensor ESPRIT in DFT Beamspace” by P.A.U.L Göttlich, Damir Rakhimov, and Martin Haardt. On Friday, September 12th, I’ve attended the workshop WS-3: Signal Processing for Autonomous Systems (SPAS).

I presented my work on tangential velocity estimation ("Tangential Velocity Estimation Using Separated Non-Coherent Automotive Radar Array") in a lecture session SS24: Radar Sensing for Autonomous Vehicles, on Friday, September 12th. Afterwards, I was invited to present my work in the student session in WS-3: Signal Processing for Autonomous Systems (SPAS). I’ve encountered many students and researchers from various fields of signal processing, and I have learned a lot from this experience.

In conclusion, EUSIPCO 2025 was a very inspiring learning experience. I met many researchers in the field of automotive radar and many different fields of research. I've successfully presented my work via lecture and learned a lot from the presentation.

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