Conference Report

The EUSIPCO conference is an important IEEE signal processing society event. This conference contains tutorials and special sessions which invites the international community to present the state-of-the-art developments in the field, along with plenary talks by leading researchers, as well as posters and oral sessions with presentations by the participants.

Well-known experts in the field participated the conference and presented their works on a variety of important and interesting topics, starting with tutorials on graph signal processing, integrated sensing and deep learning techniques, followed by plenaries and special sessions on AI for engineering, model based learning, graph signal processing for communications and radars which are the core technology for smart transportation and mobility.

At the conference I had the opportunity to get acquainted to other international research groups that deal with the field of automotive radars. I was exposed to new works and ideas by other groups that may lead to future collaborations and joint research. Specifically, the work on "Misspecification under the Narrowband Assumption: A Cramer–Rao Bound Perspective" By S. Semper from Ilmenau, Germany, and the work on "A Sequential Partial Relaxation-Based Technique for Automotive MIMO Radar Imaging" By Minh Trinh-Hoang from Rohde-Schwarz.

These works are directly related to our research topics in automotive radars, and a collaboration with these research groups can yield significant progress in this domain.

My research on automotive radars operation under frequency-selective and range dependent channel conditions "Misspecified Cramér-Rao Bound for Terahertz Automotive Radar Range Estimation" was successfully presented to other researchers who showed interest in the subject. I got great feedbacks and insights about the work, and ideas for further research and development.

In conclusion, the conference was innovative and interesting. During the conference I was exposed to new ideas and got to know new research groups. I've successfully presented my research to others, and form future collaborations in the research community.

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