Conference Report: IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2024)

Overview

The IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2024, held in Seoul, South Korea, brought together leading experts, researchers, and practitioners from various fields of signal processing. The conference served as a platform for presenting cutting-edge research, fostering collaboration, and discussing emerging trends and technologies. This year's event was particularly notable for its emphasis on advancements in machine learning, artificial intelligence, and their applications across different domains, including automotive radar systems.

Impressions

ICASSP 2024 was an exceptional experience, both professionally and personally. The conference venue in Seoul was well-organized, with state-of-the-art facilities that enhanced the overall experience. The event featured a rich array of plenary talks, technical programs, workshops, and poster presentations, each providing valuable insights and fostering stimulating discussions.

The "Signal Processing and Machine Learning Advances in Automotive Radars" workshop was particularly informative. Notably, the invited talk on "Radar Data Augmentation for Machine Learning" stood out for me, showcasing techniques to enhance radar data for training robust machine learning models.

The technical programs covered a broad spectrum of topics, from fundamental research in signal processing algorithms to practical applications in various industries. The quality and diversity of the presentations reflected the depth and breadth of ongoing research in this field. It was inspiring to see how innovative solutions are being developed to address complex problems.

Personal Contributions

I had the honor of presenting my paper, "Automated Labeling of Automotive Radar Azimuth Multipath," both in an oral presentation during the workshop "Signal Processing and Machine Learning Advances in Automotive Radars" and in a poster session. The oral presentation allowed me to share my research findings with a focused audience and engage in meaningful discussions with experts who provided invaluable feedback and suggestions for future work.

The workshop was a highlight, as it brought together researchers working on the latest advancements in automotive radar technology. The discussions emphasized the critical role of signal processing and machine learning in enhancing the performance and reliability of automotive radar systems. My presentation focused on the challenges of labeling radar data accurately and introduced an automated approach to improve labeling efficiency and accuracy. The feedback from the audience was positive.

The poster session provided a more informal setting where I could interact with attendees on a one-on-one basis. This format was particularly beneficial for in-depth technical discussions

and networking. Participants expressed interest in my work, leading to fruitful exchanges of ideas and potential future collaborations.

In conclusion, ICASSP 2024 was an inspiring and productive conference that provided numerous opportunities for learning, networking, and collaboration. I look forward to participating in future ICASSP conferences and continuing to contribute to this dynamic and evolving field.

Regards,

Stav Danino