

Ondřej Straka

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Short biography

Ondřej Straka is an Associate Professor at the University of West Bohemia in Pilsen, Czech Republic and head of Identification and Decision-Making Research Group within the European Centre of Excellence NTIS – New Technologies for the Information Society, where he focuses on nonlinear state estimation, information fusion, stochastic systems, fault detection, and system identification.

Dr. Straka has published over 150 journal and conference papers. He has participated in a number of fundamental research projects and several applied research projects (e.g., GNSS-based safe train localization, attitude, and heading reference system, GNSS spoofing, radar tracking). He was involved in developing several software frameworks for nonlinear state estimation. In 2024, he was awarded Jean-Pierre Le Cadre Award (Second Place Winner) at the 27th International Conference on Information Fusion.

He has been a member of the Technical Program Committee of the FUSION Conferences since 2010. He served as a special session co-chair for the FUSION 2016 conference and program co-chair for the FUSION 2023 conference. He co-organized a successful series of special sessions on Advanced Nonlinear Filtering at the FUSION conference. He also co-organized the tutorial on the Estimation of Noise Parameters in State Space Models during the past seven FUSION conferences. Besides the FUSION conferences, he has served the scientific community as the General Co-Chair of the IEEE conference Multisensor Fusion and Integration MFI 2024. Since 2023, he has been associate editor of IEEE Transactions on Aerospace and Electronic Systems. He is a member of the Scientific Council, Faculty of Electrical Engineering, Czech Technical University.

Position statement

The success of any community lies in solid traditions while embracing new directions. The ISIF community effectively brings together individuals from academia, industry, and government, with a focus on fields such as electrical and computer engineering, mathematics, and physics, among others. As a member of the ISIF board, I would concentrate on

- Enhancing the community's recognition among other communities and industries by improving the technical excellence of ISIF activities.
- Supporting the organization of the FUSION conferences, the ISIF tradition, to keep them as the most significant event for the community.
- Striving to enhance the prestige and recognition of the ISIF journals.
- Promoting our members' research on information fusion through a research spotlight series on the society's website or social media.
- Attracting researchers and developers from different communities, as well as from industry and government sectors through exploring new application areas for the excellent theory developed within our community.
- Continuing to build ISIF reserves and make strategic investments to achieve these goals.

As an ISIF board member, I would be dedicated to advancing the ISIF mission, supporting our members, and fostering growth within our professional community.