

Full List of Publications

BOOKS

- F. K. Teklehaymanot, C. Schroth, and M. Muma. *Robust Bayesian Cluster Enumeration for Real Elliptically Symmetric Distributions*. Chapter of book entitled Elliptical Distributions in Signal Processing. Springer Nature Switzerland, 2024.
- A. M. Zoubir, V. Koivunen, E. Ollila, and M. Muma. *Robust Statistics for Signal Processing*. Cambridge University Press, 2018.

PATENTS

- R. Lizio, M. Muma, T. Schäck, S. L. Viñas, and A. M. Zoubir. “Methods to estimate the blood pressure and the arterial stiffness based on photoplethysmographic (PPG) signals”. US Patent App. 17/045,715. Aug. 2021.
- R. Lizio, M. Muma, T. Schäck, S. L. Viñas, and A. M. Zoubir. “Preparations containing anthocyanins for use in the influence of cardiovascular conditions”. US Patent App. 17/049,446. Nov. 2021.

JOURNAL ARTICLES

- T. Koka, J. Machkour, D. P. Palomar, and M. Muma. “Virtual Dummies: Enabling Scalable FDR-Controlled Variable Selection via Sequential Sampling of Null Features”. In: *Journal of Machine Learning Research (under review)* (2026).
- J. Machkour, M. Muma, and D. P. Palomar. “High-Dimensional False Discovery Rate Control for Dependent Variables”. In: *Signal Processing* 234 (2025), p. 109990.
- J. Machkour, M. Muma, and D. P. Palomar. “The Terminating-Random Experiments Selector: Fast High-Dimensional Variable Selection with False Discovery Rate Control”. In: *Signal Processing* 231 (2025), p. 109894.
- T. Koka, M. C. Tsakiris, M. Muma, and Benjamin Béjar Haro. “Shuffled Multi-Channel Sparse Signal Recovery”. In: *Signal Processing* 109579 (2024).
- C. A. Schroth, C. Eckrich, I. Kakouche, S. Fabian, O. von Stryk, A. M. Zoubir, and M. Muma. “Emergency Response Person Localization and Vital Signs Estimation Using Semi-Autonomous Robot Mounted SFCW Radar”. In: *IEEE Transactions on Biomedical Engineering* (2024), pp. 1–14.
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- A. Taştan, M. Muma, and A. M. Zoubir. “Fast and Robust Sparsity-Aware Block Diagonal Representation”. In: *IEEE Transactions on Signal Processing* 72 (2023), pp. 305–320.
- C. A. Schroth and M. Muma. “Real Elliptically Skewed Distributions and Their Application to Robust Cluster Analysis”. In: *IEEE Transactions on Signal Processing* 69.1 (June 2021), pp. 3947–3962.
- C. A. Schroth and M. Muma. “Robust M-Estimation Based Bayesian Cluster Enumeration for Real Elliptically Symmetric Distributions”. In: *IEEE Transactions on Signal Processing* 69 (Apr. 2021), pp. 3525–3540.
- A. Taştan, M. Muma, and A. M. Zoubir. “Sparsity-aware Robust Community Detection (SPARCODE)”. In: *Signal Processing* (2021), p. 108147.
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IN CONFERENCE PROCEEDINGS

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OPEN ACCESS DATASETS

Christian A. Schroth, Christian Eckrich, Stefan Fabian, Oskar von Stryk, Abdelhak M. Zoubir, and Michael Muma. *Multi-Person Localization and Vital Sign Estimation Radar Dataset*. IEEE Dataport, 2023.

CITATION METRICS¹

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