Please list here the related documents such as the Final Report or further readings to be published for registered users on the portal.

• S. Gracla, A. Schröder, M. Röper, C. Bockelmann, D. Wübben, A. Dekorsy: Learning Model-Free Robust Precoding for Cooperative Multibeam Satellite Communications, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023), 04.-10.06.2023, Rhodes Island, Greece, doi: 10.1109/ICASSPW59220.2023.10193092

• A. Dekorsy, D. Wübben, M. Röper, H. Bischl, M. Taddiken, C. Baumgärtner, U. Sedlmayr, K. Schilling, T. Petermann, G. Schreiber, F. Curreli: AI for Satellite 5G Communications (AIComS), EuCNC & 6G Summit (2023), 06.-09.09.2023, Gothenburg, Sweden

• M.R. Elmeligy, T. Düe, M. Vakilifard, D. Wübben, A. Dekorsy: RAN Functional Split Options for Integrated Terrestrial and Non-Terrestrial 6G Networks, 11th International Japan-Africa Conference on Electronics, Communications and Computations (JAC-ECC 2023), 18.-20.12.2023, Alexandria, Egypt, doi: 10.1109/JAC-ECC61002.2023.10479650

• M. Taddiken, F. Prautzsch, T. Düe, M. Vakilifard, C. Baumgärtner, A. Dekorsy, J. Rust: Architectural Design of a High-Performance ML-Based Processing Platform for 5G NTN, Data Systems in Aerospace (DASIA), 28.-30.05.2024, Opatija, Croatia

• A. Schröder, S. Gracla, M. Röper, D. Wübben, C. Bockelmann, A. Dekorsy: Flexible Robust Beamforming for Multibeam Satellite Downlink using Reinforcement Learning, IEEE International Conference on Communications (ICC 2024), 09.-13.06.2024, Denver, USA, doi: 10.1109/ICC51166.2024.10622707

• M. Röper, B. Matthiesen, D. Wübben, P. Popovski, A. Dekorsy: Position Based Transceiver Design for Multiple Satellite to VSAT Downlink, IEEE Open Journal of the Communications Society (OJ-COMS), 45590, Vol. 5, pp. 7022 - 7040, doi: 10.1109/OJCOMS.2024.3486601

• T. Düe, M. Vakilifard, C. Bockelmann, D. Wübben, A. Dekorsy: An Open Source Channel Emulator for Non-Terrestrial Networks, Advanced Satellite Multimedia Systems Conference/Signal Processing for Space Communications Workshop (ASMS/SPSC 2025), 26.-28.02.2025, Sitges, Spain

• M. Vakilifard, T. Düe, M. Rihan, M. Röper, D. Wübben, C. Bockelmann, A. Dekorsy: Throughput Requirements for RAN Functional Splits in 3D Networks, International ITG Conference on Systems, Communications and Coding (SCC 2025), 10.03.2025-13.03.2025, Karlsruhe, Germany

• T. Petermann, E. Jäger, L. Elsner, D. Pearson, G. Dietl, K. Schilling: A Distributed Hardware-in-the-Loop Testbed forAttitude Control of Small Communication Satellites, IEEE Space Hardware and Radio Conference (SHaRC 2025), 19.-22.01.2025, San Juan, Puerto Rico, doi:10.1109/SHaRC63955.2025.10908960

• A. Hegde, M. Roth, H. Bischl: Routing in Low Earth Orbit Satellite Networks: Constrained DQN Based Approach, IEEE Wireless Communications and Networking Conference (WCNC 2025), 24.-27.03.2025, Milan, Itlay

• M.M.H. Roth, T. Jerkovits, A. Hegde, T. Delamotte, A. Knopp: Deep Reinforcement Learning for Adaptive Traffic Engineering in Satellite Constellation Networks, 12th Advanced Satellite Multimedia Systems Conference (ASMS 2025), 26.-28.02.2025, Sitges, Spain, doi: 10.1109/ASMS/SPSC64465.2025.10946057

• M.M.H. Roth, A. Hegde, T. Delamotte, A. Knopp: Shaping Rewards, Shaping Routes: On Multi-Agent Deep Q-Networks for Routing in Satellite Constellation Networks, The First Joint European Space Agency / IAA Conference on AI in and for Space (SPAICE 2024), ESA European Centre for Space Applications and Telecommunications (ECSAT), Oct 2024, Harwell, UK