

Publications / Paper

Titel	Jahr	Was	Wer	Partner	Veranstalter/ Veröffentlicher	Link	WG
Average Case Error Estimates of the Strong Lucas (Prime Number) Test	2024	Paper	Semira Einsele et al	FU Berlin / ETH	Springer Designs, Codes and Cryptography (CDC) vol. 92, pages 1341–1378, Januar 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Energy-Efficient power allocation in Cell-Free massive MIMO via graph neural networks	2024	Paper	R. Raghunath, B. Peng, and E. A. Jorswieck		2024 IEEE International Conference on Machine Learning for Communication and Networking (ICMLCN), Stockholm, Sweden, May 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Autonomous Capacity Adjustment with Dynamic Margin Allocation for Optical Enterprise Links	2024	Paper	M. Balanici, B. Shariati, P. Safari, G. Bergk and J. K. Fischer		OFC, San Diego, CA, USA, 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Live Demonstration of Autonomous Link-Capacity Adjustment in Optical Metro-Aggregation Networks	2024	Paper	M. Balanici, P. Safari, B. Shariati, A. Jafari, J. K. Fischer and R. Freund		OFC, San Diego, CA, USA, 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
On the Requirements on Reflective Intelligent Surfaces in THz NLOS Backhaul Links	2024	Paper	T. Kürner, B. K. Jung, C. Herold		Proc. URSI GASS 2023, Sapporo, Japan, 19–26 August 2023. 10.46620/URSIGASS.2023.2288.FKNW9115. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
A Concept for the Efficient Integration of Reconfigurable Intelligent Surfaces into a Ray Tracing Framework	2024	Paper	C. Herold and T. Kürner		2023 48th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Montreal, QC, Canada, 2023, pp. 1-2, doi: 10.1109/IRMMW-THz57677.2023.10299214. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Channel Measurements in an Industrial Environment for Access Point-to-Sensor Communication at 300 GHz	2024	Paper	C. Reinhardt, V. Elesina, J. Eckhardt, T. Doeker, L. Ribeiro, T. Kürner		Proc. GeMIC 24, Duisburg, March 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Lessons Learned from a Decade of THz Channel Sounding	2024	Paper	J. M. Eckhardt and T. Doeker		IEEE Communications Magazine, vol. 62, no. 2, pp. 24-30, February 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K. doi: 10.1109/MCOM.001.2200586. Selected as a Special Track der ICC 24 in Denver to be presented a one of the best ComMag publications in the last two years.		
Little or No Equalization is Needed in Energy-Efficient Sub-THz Mobile Access	2024	Paper	Lorenzo Miretti, Thomas Kühne, Alper Schultze, Wilhelm Keusgen, Giuseppe Caire, Michael Peter, Slawomir Stanczak, Taro Eichler		IEEE Communications Magazine, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K. DOI: 10.1109/MCOM.001.2200464, open access, February 2024		
SensingWall: Ultra-low Cost WiFi Wireless Sensing	2024	Paper	Anatolij Zubov, Muhammad Elhwawshy, Sascha Rösler, Lorenz Pusch, Adam WoliszandFalko Dressler		Proceedings of 43rd IEEE Conference on Computer Communications (INFOCOM 2024), Demo Session, Vancouver, Canada, May 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
PLIFI : Analog Amplify and Forward Relaying in Cascaded PLC-LiFi Networks	2024	Paper	Anatolij Zubov, Agon Memedi and Falko Dressler		Proceedings of IEEE Wireless Communications and Networking Conference (WCNC 2024), Dubai, United Arab Emirates, April 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Guest Editorial Open RAN: A New Paradigm for Open, Virtualized, Programmable, and Intelligent Cellular Networks	2024	Paper	Michele Polese, Mischa Dohler, Falko Dressler, Melike Erol-Kantarci, Rittwik Jana, Raymond Knopp and Tommaso Melodia		IEEE Journal on Selected Areas in Communications, vol. 42 (2), pp. 241–244. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Empowering the 6G Cellular Architecture with Open RAN	2024	Paper	Michele Polese, Mischa Dohler, Falko Dressler, Melike Erol-Kantarci, Rittwik Jana, Raymond Knopp and Tommaso Melodia		IEEE Journal on Selected Areas in Communications, vol. 42 (2), pp. 245–262, February 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Energy-efficient D-Band Power Amplifier Linearization Adopting Back-Gate Feedforward Technique in 22nm FD-SOI	2024	Paper	Helia Ordouei; Friedel Gerfers		2024 IEEE Topical Conference on RF/Microwave Power Amplifiers for Radio and Wireless Applications (PAWR) - IEEE. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1109/ESSCIRC59616.2023.10268797	
AprèsSQI: Extra Fast Verification for SQI Sign Using Extension-Field Signing	2024	Paper	M. Corte-Real Santos, J. K. Eriksen, M. Meyer, and K. Reijnders		EUROCRYPT 2024 (Early-career Best Paper Award). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Optimizations and Practicality of High-Security CSIDH	2024	Paper	F. Campos, J. Chavez-Saab, J. Chi-Dominguez, M. Meyer, K. Reijnders, F. Rodriguez-Henriquez, P. Schwabe, and T. Wiggers		IACR Communications in Cryptology, 1(1), 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Hash your Keys before Signing: BUFF Security of the Additional NIST PQC Signatures	2024	Paper	T. Aulbach, S. DüzlÜ, M. Meyer, P. Struck, and M. Weishäupl		PQCrypto 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K7		
Efficient Post-Quantum Secure Deterministic Threshold Wallets from Isogenies	2024	Paper	P. Das, A. Erwig, M. Meyer, and P. Struck		ACM AsiaCCS 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
A Framework for Transmission Design for Active RIS-Aided Communication With Partial CSI	2024	Paper	G. Zhou et al.		IEEE Transactions on Wireless Communications, vol. 23, no. 1, pp. 305-320, Jan. 2024, doi: 10.1109/TWC.2023.3277514. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Noncoherent Orthogonal Time Frequency Space Modulation	2024	Paper	C. Xu et al.		IEEE Transactions on Wireless Communications, doi: 10.1109/TWC.2024.3368406. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Security Testing The O-RAN Near-Real Time RIC & A1 Interface	2024	Paper	Kashyap Thimmaraju, Abaf Shaik, Sunniva Flueck, Pere Joan Fullana, Christian Werling, and Jean-Pierre Serfat		17th ACM Conference on Security and Privacy in Wireless and Mobile Networks. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Simultaneous Computation and Communication over MAC	2024	Paper	M.Frey, I. Bjelakovic, M. Gastpar, J. Zhu		Proceedings of 2024 IEEE International Symposium on Information Theory (ISIT 2024), Athens, Greece. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
UL-DL Duality for Cell-Free Massive MIMO With Per-AP Power and Information Constraints	2024	Paper	Lorenzo Miretti, Renato L. G. Cavalcante, Emil Björnson, Slawomir Stanczak		IEEE Transactions on Signal Processing, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K. DOI: 10.1109/TSP.2024.3376809, open access, March 2024		
Fast decoding of lifted interleaved linearized Reed-Solomon codes for multishot network coding	2024	Paper	Hannes Bartz and Sven Puchinger		Design, Codes and Cryptography Journal in April 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Neuromorphic reservoir for nonlinear optical signal equalization	2024	Paper	Guillermo von Hünefeld, Binoy Chacko, Gregor Ronniger, Mahdi Kaveh, Isaac Sackey, Mahtab Aghaeipour, Peter Bienstman, Colja Schubert, Ronald Freund		Proc. in Physics and Simulation of Optoelectronic Devices XXXII (eds. Osiński, M., Arakawa, Y. & Witzigmann, B.) 35 (SPIE, San Francisco, United States, 2024). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		

An Investigation of the Compressed Sensing Phase in Unsourced Multiple Access	2024	Paper	F. Clazzer, F. Amri and M. Grec	Proc. of IEEE WCNC 2024 Workshops. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Toward Securing the 6G Transition: A Comprehensive Empirical Method to Analyze Threats in O-RAN Environments	2024	Paper	F. Klement, W. Liu, S. Katzenbeisser	In IEEE Journal on Selected Areas in Communications, Volume: 42, Issue: 2, February 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/JSCC.2023.3339172
One Standard to Rule Them All? Assessing the Disruptive Potential of Jamming Attacks on Matter Networks	2024	Paper	F. Klement, E. Vorderwülbecke, S. Katzenbeisser	In 2023 IEEE International Workshop on Information Forensics and Security (WIFS), Nürnberg, Germany. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/WIFS58808.2023.10374874
Age of Information for V2X: Irregular Repetition Slotted ALOHA and Semi-Persistent Scheduling	2024	Paper	Maria Bezmenov, Andrea Munari, Zoran Utkovski, Slawomir Stanczak	Denver, CO, USA, IEEE ICC, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, June 2024	
Comparison of Sub-THz Radio Channel Characteristics at 158 GHz and 300 GHz in a Shopping Mall Scenario	2024	Paper	Alper Schultze, Mathis Schmieder, Ramez Askar, Michael Peter, Wilhelm Keusgen, Taro Eichler	Glasgow, United Kingdom, 2024 18th European Conference on Antennas and Propagation (EuCAP). This work was supported by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K. The measurement campaign was carried out as part of the Fraunhofer lighthouse project 6G SENTINEL, 10501599, open access, March 2024	doi:10.23919/EuCAP60739.2024
Maximizing Throughput with Routing Interference Avoidance in RIS-Assisted Relay Mesh Networks.	2024	Paper	Phung, C.V.; Drummond, A.; Jukan, A.	47th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), Opatija, 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
On the Adaptive THz System for Mobile VR Users in Smart Factories	2024	Paper	Phung, C.V.; Ennaceur, Z.; Drummond, A.; Jukan, A.	47th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), Opatija, 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Enabling 6G Campus Networks Intelligent Control with Digital Twin: A case study.	2024	Paper	Ennaceur, Z.; Bensalem, M.; Phung, C.V.; Drummond, A.; Jukan, A.	Third International Workshop on Autonomous Network Management Systems (ANMS), Québec, 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
On Gradient-like Explanation under a Black-box Setting: When Black-box Explanations Become as Good as White-box	2024	Paper	Y. Cai and G. Wunder	International Conference on Machine Learning (ICML'24), Wien, Austria, July 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
From Worst to Average Case to Incremental Search Bounds of the Strong Lucas Test, Number-Theoretic Methods	2024	Paper	S. Einsele and G. Wunder	Cryptology (NUTMIC'24), Szczecin, Poland, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Quantifying Multipartite Entanglement in Causal Models for Secure Communication	2024	Paper	S. Wang and G. Wunder	IEEE International Symposium on Information Theory (ISIT'24), Athens, Greece, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Signal separation in radio spectrum using self-attention mechanism	2024	Paper	Fadli Damara, Zoran Utkovski, Slawomir Stanczak	South Korea, International Conference on Acoustics, Speech, and Signal Processing 2024 (ICASSP'24). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, April 2024	
Fixed points of nonnegative neural networks	2024	Paper	T. Piotrowski, R. L. G. Cavalcante, and M. Gabor	Journal of Machine Learning Research (JMLR), 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	[preprint: at https://arxiv.org/abs/2106.16239]
Positive concave deep equilibrium models	2024	Paper	M. Gabor, T. Piotrowski, and R. L. G. Cavalcante	Proc. International Conference on Machine Learning (ICML), July 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	[preprint: https://arxiv.org/abs/2402.04029]
Inverse Feasibility in Over-the-Air Federated Learning	2024	Paper	T. Piotrowski, R. Ismayilov, M. Frey, and R. L. G. Cavalcante	IEEE Sig. Proc. Letters, 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	[preprint: https://arxiv.org/abs/2211.14115]
PoC Implementation of Neuromorphic Wireless Cognition: Gesture Recognition for Robotic Control	2024	Paper	Yuzhen Ke, Mehdi Heshmati, Zoran Utkovski, Johannes Dommel, Slawomir Stanczak	Stockholm, Schweden, IEEE International Conference on Machine Learning for Communication and Networking, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, May 2024	
Second Order Rate Regions of Gaussian Broadcast Channels Under Heterogeneous Blocklength Constraints	2024	Paper	P.-H. Lin, S.-C. Lin, P.-W. Chen, M. A. Mross and E. A. Jorswieck	IEEE Transactions on Communications, vol. 72, no. 2, pp. 801-814, Feb. 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/TCOMM.2023.3329219
Gaussian Broadcast Channels With Heterogeneous Finite Blocklength Constraints: Inner and Outer Bounds	2024	Paper	M. A. Mross, P.-H. Lin and E. A. Jorswieck	IEEE Transactions on Communications, vol. 72, no. 5, pp. 2731-2745, May 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/TCOMM.2024.3354203
Worst-Case Per-User Error Bound for Asynchronous Unsourced Multiple Access	2024	Paper	J.-S. Wu, P.-H. Lin, M. A. Mross, and E. A. Jorswieck	IEEE ISIT 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Towards Bridging the Gap between Near and Far-Field Characterizations of the Wireless Channel	2024	Paper	Navneet Agrawal, Ehsan Tohidi, Renato L. G. Cavalcante, Slawomir Stanczak	Denver, CO, USA, IEEE International Conference on Communications (ICC): Wireless Communications Symposium, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, June 2024	https://arxiv.org/abs/2402.16755
Monitoring IoT Sources over Random Access Channels: Age of Incorrect Information and Missed Detection Probability	2024	Paper	A. Munari	Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Age of Information for Frame Asynchronous Coded Slotted ALOHA	2024	Paper	H. Asgari, A. Munari, G. Liva	Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Age of Information for Remote Sensing with Uncoordinated Finite-Horizon Access	2024	Paper	P. Hegde, L. Badia, A. Munari	ICT Express, March 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Harsanyi's Equilibrium Selection for Distributed Sources Minimizing Age of Information	2024	Paper	E. Dokanovic, A. Munari, L. Badia	Proc. IEEE MedComNet, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Distributed Access by Multiple Sources for Age of Information Minimization over a Finite Horizon	2024	Paper	E. Dokanovic, A. Munari, L. Badia	Proc. IEEE MetroAutomotive, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Reinforcement Learning for Age of Information Aware Transmission Policies in Slotted ALOHA Channels	2024	Paper	C. Cavaliagli, L. Badia, A. Munari	Proc. IEEE ISWCS, July 2024 (invited paper). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Secret Key Generation in Multi-Mode Fiber Channels: Channel Measurements and Achievable Rates	2024	Paper	P.-H. Lin, P. Nowitzki, E. Jorswieck, D. Pöhle	IEEE ICC 2024* has received the IEEE ICC 2024 Best Paper Award (Denver). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	

Security Testing The O-RAN Near-Real Time RIC & A1 Interface	2024	Paper	Kashyap Thimmaraju, Altaf Shaik, Sunniva Flück, Pere Joan Fullana Mora, Christian Werling, and Jean-Pierre Seifert		In Proceedings of the 17th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec '24). Association for Computing Machinery, New York, NY, USA, 277–287. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1145/3648333.3656118	
Channel Measurements at 300 GHz for Low Terahertz Links in a Data Center	2024	Paper	J. M. Eckhardt, T. Doeker and T. Kürner		<i>IEEE Open Journal of Antennas and Propagation</i> , vol. 5, no. 3, pp. 759-777, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/OJAP.2024.3391798	
Small-Scale Propagation Characterization at 300 GHz in an industrial Environment	2024	Paper	L. Ribeiro, T. Kürner		Proc. ISWC'24, July 2024, Rio de Janeiro, Brazil. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
A Concept For An Agile And Flexible Spectrum Management For THz Communications	2024	Paper	T. Kürner		Proc. IRMMW-THz 24, Perth/Australia, September 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
An Intelligent Digital Twin Model for Attack Detection in Zero-Touch 6G networks	2024	Paper	B. Bolat-Akça, E. Bozkaya-Aras, B. Canberk, B. Buchanan, and S. Schmid		Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Short-Length Code Designs for Integrated Sensing and Communications using Deep Learning	2024	Paper	M. Kim, T. Jahani-Nezhad, S. Li, R. F. Schaefer, and G. Caire		Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Dynamic Fronthaul Load Optimization for Uplink Scalable Cell-Free User-Centric Massive MIMO	2024	Paper	Z. Li, M. F. Götsch, S. Li, M. Chen, and G. Caire		Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Energy-efficient Irregular Repetition Slotted ALOHA for IoT Satellite Systems	2024	Paper	E. Recayte, T. Devaja, and D. Vukobratović		Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Compressed Sensing Inspired User Acquisition for Downlink Integrated Sensing and Communication Transmissions	2024	Paper	Y. Song, M. F. Pedraza, S. Li, S. Li, H. Yu, and G. Caire		Proc. IEEE ICC, June 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Joint Fronthaul Load Balancing and Computation Resource Allocation in Cell-Free User-Centric Massive MIMO Networks	2024	Paper	Zhiyang Li, Fabian Gottsch, Siyao Li, Ming Chen, Giuseppe Caire		<i>IEEE Transactions on Wireless Communications</i> . The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Unlocking the Potential of Local CSI in Cell-Free Networks with Channel Aging and Fronthaul Delays	2024	Paper	Lorenzo Miretti, Slawomir Stanczak		Denver, CO, USA, IEEE International Conference on Communications, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, June 2024	arXiv:2404.1276v1	
D-Band Active Antenna Array with Lens Enabling Quasi-Optical and Analogue Beam Reconfiguration for 6G Applications	2024	Paper	Campo, M. Arias and Bruni, S. and Wischmann, W. and Lauer, A. and Friedrich, A. and Wlekinski, M. and Oikonomopoulos, C. and Litschke, O. and Krishnegowda, K. and Herold, C. and Moroni, N. and Keusgen, W.	IMST, IHP and TUB	2024 18th European Conference on Antennas and Propagation (EuCAP), Glasgow, United Kingdom, 2024, pp. 1-4. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.23919/EuCAP60739.2024.10501233	
Measurements of the Time-Variant Indoor Radio Channel in the D-Band at 160 GHz for Communication and Sensing	2024	Paper	W. Keusgen, T. Eichler	TUB and R&S	4th URSI AT-RASC, Gran Canaria, 19 – 24 May 2024. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Probing the time-evolution of the sub-THz radio channel at 160 GHz for communication and sensing	2024	Paper	W. Keusgen, T. Eichler	TUB and R&S	2024 IEEE 99th Vehicular Technology Conference: VTC2024-Spring, Singapore, June 24 – 27. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Optimized Detection with Analog Beamforming for Monostatic Integrated Sensing and Communication	2024	Paper	Rodrigo Hernangómez, Jochen Fink, Renato L. G. Cavalcante, Zoran Utkovski, Slawomir Stanczak		Denver, Colorado, USA, 2024 IEEE International Conference on Communications (ICC), The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, June 2024	https://arxiv.org/abs/2404.08455	
Distributed Fixed-Point Algorithms for Dynamic Convex Optimization over Decentralized and Unbalanced Wireless Networks	2024	Paper	Navneet Agrawal, Renato L. G. Cavalcante, Slawomir Stanczak		Dresden, Germany, 27th International Workshop on Smart Antennas (WSA 2024), The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, March 2024	https://doi.org/https://doi.org/10.1109/WSA61681.2024.10511748	
Neuromorphic Wireless Device-Edge Co-Inference via the Directed Information Bottleneck	2024	Paper	Yuzhen Ke, Zoran Utkovski, Mehdi Heshmati, Osvaldo Simeone, Johannes Dommé, Slawomir Stanczak		Virginia, USA, International Conference on Neuromorphic Systems (ICONS) 2024, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, July 2024	https://arxiv.org/abs/2404.01804	
Metropolitan Optical Networks: A Survey on Single-Layer Architectures	2023	Paper	Léia S. de Sousa, André C. Drummond		<i>Optical Switching and Networking</i> , 2022. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Towards Hybrid Electronic-Mechanical Beamforming for IEEE 802.11ad	2023	Paper	Anatolij Zubow, Agon Memedi and Falko Dressler		Proceedings of 18th IEEE/IFIP Conference on Wireless On demand Network Systems and Services (WONS 2023), Madonna di Campiglio, Italy, January 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Efficient Beam Search for Initial Access Using Collaborative Filtering	2023	Paper	George Yammine, Georgios Kontes, Norbert Franke, Axel Plinge, Christopher Mutschler		IEEE Wireless Communications and Networking Conference (WCNC 2023). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.48550/arXiv.2209.06669	
Angle-Resolved THz Channel Measurements at 300 GHz in a Shopping Mall Scenario	2023	Paper	Alper Schultze, Ramez Askar, Michael Peter, Taro Eichler	HHI/TUB/Rohde & Schwarz	EuCAP, März 2023, Italien. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		

Overhead Reduction in UAV-Assisted Federated Learning with Fast-Varying Environment	2023	Paper	Sida Dai, Setareh Maghsudi, Lars Thiele, Slawomir Stanczak	HHI	International ITG 26th Workshop on Smart Antennas and 13th Conference on Systems, Communications, and Coding. Feb, 2023, Braunschweig. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK02		
Federated Learning with Integrated Over-the-Air Computation and Sensing in IRS-assisted Network	2023	Paper	Paul Zheng, Yao Zhu, Mohamed Bouchaala, Yulin Hu, Slawomir Stanczak, and Anke Schmeink		International ITG 26th Workshop on Smart Antennas and 13th Conference on Systems, Communications, and Coding. Feb, 2023, Braunschweig. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK02		
UL-DL duality for cell-free networks under per-AP power and information constraints	2023	Paper	Miretti, Lorenzo and Cavalcante, Renato L. G., and Björnson, Emil		International ITG 26th Workshop on Smart Antennas and 13th Conference on Systems, Communications, and Coding. Feb, 2023, Braunschweig. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK02		
Near-Optimal LOS and Orientation Aware Intelligent Reflecting Surface Placement	2023	Paper	Ehsan Tohidi, Sven Haesloop, Lars Thiele, Slawomir Stanczak	TUB/HHI	International ITG 26th Workshop on Smart Antennas and 13th Conference on Systems, Communications, and Coding. Feb, 2023, Braunschweig. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK02		
Characterization of the weak Pareto boundary of resource allocation problems in wireless networks -- Implications to cell-less systems	2023	Paper	Renato L. G. Cavalcante, Lorenzo Miretti, Slawomir Stanczak	TUB/HHI	International ITG 26th Workshop on Smart Antennas and 13th Conference on Systems, Communications, and Coding. Feb, 2023, Braunschweig. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK02		
A Four-Channel Bidirectional D-Band Phased-Array Transceiver for 200 Gb/s 6G Wireless Communications in a 130-nm BiCMOS Technology	2023	Paper	A. Karakuzulu, W. A. Ahmad, D. Kissinger and A. Malignaggi	IHP	IEEE Journal of Solid-State Circuits, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/JSSC.2023.3232848	
Design, Implementation and Demonstration of Waveguide Components for OTA Power-Combining in W-Band	2023	Paper	Mehrnoosh Mazhar Sarmadi, Mathis Schmieder, Michael Peter, Dirk Schwantuschke and Wilhelm Keusgen		EuCAP, März 2023, Italien. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
FDD Massive MIMO Channel Training: Optimal Rate-Distortion Bounds and the Spectral Efficiency of "one-shot" Schemes	2023	Paper	Mahdi Barzegar Khalilisarai, Yi Song, Tianyu Yang, Giuseppe Caire		IEEE Transactions on Wireless Communications. Jan 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://ieeexplore.ieee.org/document/10032236	
Dynamic Distributed Convex Optimization "Over-the-Air" in Decentralized Wireless Networks	2023	Paper	Navneet Agrawal, Renato L.G. Cavalcante, Slawomir Stanczak	TUB/HHI	ICASSP, Juni 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
"Neurally Augmented State Space Model for Simultaneous Communication and Tracking with Low Complexity Receivers"	2023	Paper	Fernando Pedraza, Giuseppe Caire		ICASSP, Juni 2023, Rhodes Island, Greece. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Maximum Zero-Outage Secrecy Capacity of Fading Wiretap Channels with Finite Alphabets	2023	Paper	X. Xu, K.-L. Besser, P.-H. Lin, and E. A. Jorswieck		Proc. 57th Annual Conference on Information Sciences and Systems (CISS), Baltimore, MD, USA, March 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		5
State Estimation Entropy for Two-State Markov Sources in Slotted ALOHA Random Access Channels	2023	Paper	G. Cocco, A. Munari and G. Liva		Proc. IEEE Information Theory Workshop (ITW), Saint Malo, France, April, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		AG4
Rate-Adaptive Protograph Mackay-Neal Codes	2023	Paper	A. Zahr, B. Matuz and G. Liva		Proc. IEEE Information Theory Workshop (ITW), Saint Malo, France, April, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		AG1
Error Detection Strategies for CRC-Concatenated Polar Codes under Successive Cancellation List Decoding	2023	Paper	A. Sauter, B. Matuz and G. Liva		Proc. 57th Annual Conference on Information Sciences and Systems (CISS), Baltimore, MD, USA, March 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		AG4
Arbitrarily Varying Wiretap Channels With Non-Causal Side Information at the Jammer	2023	Paper	Carsten Rudolf Janda; Moritz Wiese; Eduard Axel Jorswieck; Holger Boche		IEEE Xplore. IEEE Transactions on Information Theory. April 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/ITIT.2023.3245722	
Deep-Unfolded Adaptive Projected Subgradient Method for MIMO Detection	2023	Paper	Jochen Fink, Renato L.G. Cavalcante, Zoran Utkovski, Slawomir Stanczak	HHI	IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
"Interpolation-Based Decoding of Folded Variants of Linearized and Skew Reed-Solomon Codes"	2023	Paper	F. Hörmann and H. Bartz		Designs, Codes and Cryptography, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	arXiv:2303.15195	

Superiorized Adaptive Projected Subgradient Method with Application to MIMO Detection	2023	Paper	Jochen Fink, Renato L.G. Cavalcante, Sławomir Stanczak	HHI	IEEE Transactions on Signal Processing, March 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://ieeexplore.ieee.org/document/10088474	
Edge Caching: On the Performance of Placement and Delivery Coding Schemes	2023	Paper	E. Recayte		IEEE Transactions on Communications. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Undersampling and SNR Degradation in Practical Direct RF Sampling Systems	2023	Paper	Dennis Otterland, Andreas Benzin, Friedel Gerfers, Giuseppe Caire		2023 European Conference on Networks and Communications & 6G Summit, Gothenburg Sweden, June 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Outdoor Transmission Trials in the W-Band for 6G Mobile Access Scenarios	2023	Paper	Mehrnoosh Mazhar Sarmadi, Ramez Askar, Mathis Schmieder, Michael Peter and Wilhelm Keusgen	HHI	IEEE VTC June 2023, Florence, Italy. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
On the Limits of HARQ Prediction for Short Deterministic Codes with Error Detection in Memoryless Channels	2023	Paper	Barış Göktepe, Cornelius Hellige, Tatiana Rykova, Thomas Schierl and Sławomir Stanczak	HHI	2023 IEEE International Symposium on Information Theory (ISIT), Juni 2023 in Taipei, Taiwan. he authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Approaching Global Optimum of Energy Efficiency in Interference Networks via Machine Learning	2023	Paper	Bile Peng, Karl-Ludwig Besser, Ramprasad Raghunath and Eduard A. Jorswieck		IEEE Transactions on Wireless Communications. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Comparison of Passive Photonic Reservoir Computing Architectures for Signal Equalization of Future Generation Intra-DCN and Mobile Fronthaul Systems	2023	Paper	Sebastian Kühn, Lars E. Kruse and Stephan Pachnicke		2023 International Conference on Transparent Optical Networks, Bucharest, Romania, 2-6 June 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Adaptive Blind MPSK Constellation Recovery and Equalization for Cognitive Radio Applications	2023	Paper	Liset Martínez Marrero, Jorge Torres Gómez, Falko Dressler and Maria Julia Fernández-Getino Garcia		IEEE Transactions on Vehicular Technology (TVT), vol. 71 (11), pp. 11988–12000, November 2022. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Towards Hybrid Electronic-Mechanical Beamforming for IEEE 802.11ad	2023	Paper	Anatolij Zubov, Agon Memedi and Falko Dressler		Proceedings of 18th IEEE/IFIP Conference on Wireless On demand Network Systems and Services (WONS 2023), Madonna di Campiglio, Italy, January 2023, pp. 88–91. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Sum Rate Maximization of Uplink Active RIS and UAV-assisted THz Mobile Communications	2023	Paper	Sara Farrag, Engy A. Maher, Ahmed El-Mahdy and Falko Dressler		Proceedings of IEEE International Conference on the Design of Reliable Communication Networks (DRCN 2023), Vilanova i la Geltrú, Spain, April 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Towards Optimal Path Allocation for Unreliable Reconfigurable Intelligent Surfaces	2023	Paper	M. Bensalem, A. Engelmann, and A. Jukan		2023 19th International Conference on the Design of Reliable Communication Networks (DRCN), Vilanova, Spain 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Optimum Network Slicing for Ultra-reliable Low Latency Communication (URLLC) Services in Campus Networks	2023	Paper	I. Zacarias, F. Carpio, A. C. Drummond, and A. Jukan		2023 19th International Conference on the Design of Reliable Communication Networks (DRCN), Vilanova, Spain, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Uniform Analysis of Multipath Components from Various Scenarios with Time-Domain Channel Sounding at 300 GHz	2023	Paper	J. M. Eckhardt, A. Schultze, R. Askar, T. Doeker, M. Peter, W. Keusgen, T. Kürner	HHI/TUB/TUBS	IEEE Open Journal of Antennas and Propagation, vol. 4, pp. 446-460, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/OJAP.2023.3263597	
Extracted Multipath Components from Time-Domain Channel Sounding at 300 GHz in Various Scenarios	2023	Paper	Eckhardt, J.M., Schultze, A., Askar, R., Doeker, T., Peter, M., Keusgen, W., Kürner		IEEE Open Journal of Antennas and Propagation, vol. 4, pp. 446-460, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.24355/ubh.084-202201191318-0	
Inter-carrier Interference at Terahertz Frequencies for IEEE Std 802.15.3d Multiband Transmissions	2023	Paper	J. M. Eckhardt, C. Herold and T. Kürner		WISA & SCC 2023; 26th International ITG Workshop on Smart Antennas and 13th Conference on Systems, Communications, and Coding, Braunschweig, Germany, 2023, pp. 1-6. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Capacity analysis for time-variant MIMO channel measurements at low THz frequencies	2023	Paper	J. M. Eckhardt, C. E. Reinhardt, T. Doeker, E. A. Jorswieck, and T. Kürner	TUBS_IK/TUBS-MS	2023 17th European Conference on Antennas and Propagation (EuCAP), Florence, Italy, 2023, pp. 1-5. he authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K		
Performance Assessment of Joint Optical-Digital Nonlinearity Mitigation Schemes in Long-Haul Systems	2023	Paper	Vegeshanti Dilva, Isaac Sackey, Gregor Ronniger, Guillermo von Hünefeld, Binoy Chacko, Colja Schubert, and Ronald Freund	HHI-PN	IEEE Photonic Technology Letters (PTL), 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi:10.1109/PTL.2023.3268826	

Second-Order Performance of Early Decoding with Shell Codes in Gaussian Broadcast Channels	2023	Paper	M. Mross, P.-H. Lin, and E. A. Jorswieck		2023 IEEE International Symposium on Information Theory (ISIT), Taipei, Taiwan, June 25-30, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Human-Centered Traffic Management Supporting Smart Cities and the Metaverse	2023	Paper	Dinesh Cyril Selvaraj, Falko Dressler and Carla Fabiana Chiasserini		Proceedings of IEEE International Conference on Metaverse Computing, Networking and Applications (MetaCom 2023), Kyoto, Japan, June 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
TSOA: Two-State Offloading Algorithm from Users to Co-Located Vehicular Microclouds	2023	Paper	Bo-Jun Qiu, Jyh-Cheng Chen and Falko Dressler		Proceedings of 24th IEEE International Conference on High Performance Switching and Routing (HSPR 2023), Albuquerque, NM, June 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
D-Band RIS as a Reflect Array: Characterization and Hardware Impairments Study	2023	Paper	Ehsan Tohidli, Robert Stöcker, Julia-Marie Köszegi, and Slawomir Stanczak		BalkanCom, June 5-8, 2023 in Istanbul, Türkiye. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Active RIS vs. Passive RIS: Which Will Prevail in 6G?	2023	Paper	Zhang, Zijian and Dai, Linglong and Chen, Xibi and Liu, Changhao and Yang, Fan and Schober, Robert and Poor, H. Vincent		IEEE Transactions on Communications, vol. 71, pp. 1707-1725, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi=10.1109/TCOMM.2022.3231893
Two-Timescale Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With Imperfect CSI	2023	Paper	K. Zhi et al.		IEEE Transactions on Information Theory, vol. 69, no. 5, pp. 3001-3033, May 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/TIT.2022.3227538
RIS-Assisted Device Activity Detection with Statistical Channel State Information	2023	Paper	F. Laue, V. Jamali and R. Schober		IEEE Transactions on Wireless Communications, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/TWC.2023.3271365
Rate-Splitting for Intelligent Reflecting Surface-Aided Multiuser VR Streaming	2023	Paper	R. Huang, V. W. S. Wong and R. Schober		IEEE Journal on Selected Areas in Communications, vol. 41, no. 5, pp. 1516-1535, May 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/JSAC.2023.3240710
Downlink Massive MU-MIMO With Successively-Regularized Zero Forcing Precoding	2023	Paper	A. Krishnamoorthy and R. Schober		IEEE Wireless Communications Letters, vol. 12, no. 1, pp. 114-118, Jan. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/LWC.2022.3218597
Change Your Car's Filters: Efficient Concurrent and Multi-Stage Firewall for OBD-II Network Traffic	2023	Paper	F. Klement, H. C. Pöhls and S. Katzenbeisser		In 2022 IEEE 27th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), IEEE, Nov., 2022. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	DOI: 10.1109/CAMAD55695.2022.9966902
Man-in-the-OBD: A modular, protocol agnostic firewall for automotive dongles to enhance privacy and security	2023	Paper	F. Klement, H. C. Pöhls and S. Katzenbeisser		In Attacks and Defenses for the Internet-of-Things: 5th International Workshop, ADIoT 2022, Copenhagen, Denmark, September 30, 2022, ACM, Sep., 2022. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	DOI: 10.48550/arXiv.2210.08281
Uniform Analysis of Multipath Components From Various Scenarios With Time-Domain Channel Sounding at 300GHz	2023	Paper	Alper Schultze, Johannes M. Eckhardt, Ramez Askar, Tobias Doeker, Michael Peter, Wilhelm Keusgen, Thomas Kürner		IEEE Open Journal of Antennas and Propagation, Apr. 2023. This work was supported in part by the Federal Ministry of Education and Research of Germany in the Program of "Souverän. Digital. Vernetzt." Joint Project 6G-RIC under Project 16KISK020K and Project 16KISK031, and in part by the Open Access Publication Funds of Technische Universität Braunschweig.	doi: 10.1109/OJAP.2023.3263592
A 6G RAN-Core Control Plane Convergence Framework.	2023	Paper	Corici, M., Eichhorn, F., Trout, E., Schreiner, F., & Magedanz, T.		In 2023 26th Conference on Innovation in Clouds, Internet and Networks and Workshops (ICIN) (pp. 95-99). IEEE. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Non-orthogonal multiple access assisted by reconfigurable intelligent surface using unsupervised machine learning	2023	Paper	F. Siegmund-Pöschmann, B. Peng and E. A. Jorswieck		In EUSIPCO, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Robust Online Multiuser Detection: A Hybrid Model-Data Driven Approach	2023	Paper	Daniyal Amir Awan , Renato L. G. Cavalcante, Masahiro Yukawa, Slawomir Stanczak		IEEE Transactions on Signal Processing , The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K. 5th June 2023	DOI: 10.1109/TSP.2023.3282698
Breaking the quadratic barrier: Quantum cryptanalysis of Milenage, telecommunications' cryptographic backbone	2023	Paper	Vincent Ulltsch, Technische Universität Berlin and Jean-Pierre Seifert	TUB	POCrypto 2023, 14th International Conference on Post-Quantum Cryptography . The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Online Kernel-Based Quantile Regression Using Huberized Pinball Loss	2023	Paper	T. Ichinose, M. Yukawa, R. L. G. Cavalcante		EUSIPCO 2023 from 4-8th September in Helsinki, Finland. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Estimation of Doubly-Dispersive Channels in Linearly Precoded Multicarrier Systems Using Smoothness Regularization	2023	Paper	Andreas Pfadler , Tom Oliver Stollmann , Peter Jung , Slawomir Stanczak		IEEE Transactions on Wireless Communications, June 2023 . The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1109/TWC.2023.3287948

Coded Distributed Image Classification	2023	Paper	Jiepeng Tang, Navneet Agrawal, Slawomir Stanczak, Jingge Zhu		Rome, Italy, IEEE INTERNATIONAL WORKSHOP ON MACHINE LEARNING FOR SIGNAL PROCESSING, Sept 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Spectral and Energy Efficiency Maximization of MISO STAR-RIS-Assisted URLLC Systems	2023	Paper	M. Soleymani, I. Santamaria and E. A. Jorswieck		IEEE Access, vol. 11, pp. 70833-70852, 2023, doi: 10.1109/ACCESS.2023.3294092. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
SNR Maximization in Beyond Diagonal RIS-Assisted Single and Multiple Antenna Links	2023	Paper	I. Santamaria, M. Soleymani, E. Jorswieck and J. Gutiérrez	IHP, Bilbao and Paderborn	SNR Maximization in Beyond Diagonal RIS-Assisted Single and Multiple Antenna Links," in IEEE Signal Processing Letters, vol. 30, pp. 923-926, 2023, doi: 10.1109/LSP.2023.3296902. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Non-Convex Optimization of Energy Efficient Power Control in Interference Networks via Machine Learning	2023	Paper	B. Peng, K.-L. Besser, R. Raghunath and E. A. Jorswieck		Globecom 2023 Selected Areas in Communications: Machine Learning for Communications. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
RISNet: a Scalable Approach for Reconfigurable Intelligent Surface Optimization with Partial CSI	2023	Paper	B. Peng, K.-L. Besser, R. Raghunath V. Jamali and E. A. Jorswieck		Globecom 2023 Selected Areas in Communications: Machine Learning for Communications. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Sparse Spatial Lane Change Increases SDM Network Efficiency	2023	Paper	I. Brasileiro, A. C. Drummond, and A. Jukan		49th European Conference on Optical Communications (ECOC), Glasgow, Scotland, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Performance Analysis of Crosstalk-Aware Sparse Core-Switching Optical Networks	2023	Paper	I. Brasileiro, A. C. Drummond, and A. Jukan		IEEE Global Communications Conference: Optical Networks and Systems (Globecom), Kuala Lumpur, Malaysia, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Differentially Private Synthetic Data Generation via Lipschitz-Regularised Variational Autoencoders	2023	Paper	Benedikt Groß, Gerhard Wunder	FUB	9th IEEE Int. Conf. on Privacy Computing and Data Security, August 2023. The paper is supported by the German Science Foundation (DFG) under grants 598/7-1, 598/7-2, 598/8-1, 598/8-2 and the 6G research cluster (6g-ric.de) supported by the German Ministry of Education and Research (BMBWF). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://arxiv.org/abs/2304.11336
One-Shot Messaging at Any Load Through Random Sub-Channeling in OFDM	2023	Journal Paper	Gerhard Wunder, Axel Flieth, Benedikt Groß	FUB	IEEE Tran. on Information Theory, June 2023 (Early Access). The paper is supported by the German Science Foundation (DFG) under grants 598/7-1, 598/7-2, 598/8-1, 598/8-2 and the 6G research cluster (6g-ric.de) supported by the German Ministry of Education and Research (BMBWF). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://arxiv.org/abs/2209.11056
The Dynamic Behavior of Frameless ALOHA: Drift Analysis, Throughput, and Age of Information	2023	Paper	A. Munari, F. Lazaro, G. Durisi, G. Liva		IEEE Transactions on Communications, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
On the Performance of Correlation-Based Packet Detection Techniques	2023	Paper	E. Recayte, A. Munari		Elsevier Physical Communications, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
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Timely and Efficient Information Delivery in Real-Time Industrial IoT Networks	2023	Paper	H. Farag, D. Vukobratovic, A. Munari, C. Stefanovic		Proc. IEEE PIMRC, Toronto (Canada), 5-8 Sep. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
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State Estimation Entropy for Two-State Markov Sources in Slotted ALOHA Random Access Channels	2023	Paper	G. Cocco, A. Munari, G. Liva		Proc. IEEE ITW, Saint Malo (France), 23-28 Apr. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
AoI-Aware Resource Allocation for Platoon-Based C-V2X Networks via Multi-Agent Multi-Task Reinforcement Learning	2023	Paper	M. Parvini, M. R. Javan, N. Mokari, B. Abbasi and E. A. Jorswieck		IEEE Transactions on Vehicular Technology, vol. 72, no. 8, pp. 9880-9896, Aug. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/TVT.2023.3259688. Online: https://ieeexplore.ieee.org/document/10077432
Resource Allocation for UAV-Assisted Industrial IoT User with Finite Blocklength	2023	Paper	Atefeh Rezaei, Ata Khalili and Falko Dressler		Proceedings of 98th IEEE Vehicular Technology Conference (VTC 2023-Fall), Hong Kong, China, October 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Matryoshka: Single RF Chain Multi-user Transmission through WiFi-in-WiFi Signal Emulation using COTS Hardware	2023	Paper	Piotr Gawlowicz, Anatolij Zubov and Falko Dressler		Proceedings of 29th ACM International Conference on Mobile Computing and Networking (MobiCom 2023), 17th ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WINTeCh 2023), Madrid, Spain, October 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
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TCOA: Triple-Check Offloading Algorithm for Roadside Units and Vehicular Microclouds in 5G Networks and Beyond	2023	Paper	Bo-Jun Qiu, Cheng-Ying Hsieh, Jyh-Cheng Chen and Falko Dressler		IEEE Access, vol. 11, pp. 84985-85001, August 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Loop Aborts Strike Back: Defeating Fault Countermeasures in Lattice Signatures with ILP	2023	Paper	V. Ullitsch, S. Marzougui, M. Tibouchi, A. Bagia and J. Seifert		Conference on Cryptographic Hardware and Embedded Systems (CHES 2023), Sep. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	

A super-polynomial quantum advantage for combinatorial optimization problems	2023	Paper	N. Pimay, V. Ulitzsch, F. Wilde, J. Eisert and J. Seifert		GI Quantum Computing Workshop 2023, Sep.2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
ASanity: On Bug Shadowing by Early ASan Exits	2023	Paper	V. Ulitzsch, D. Scholz and D. Maier		17th IEEE Workshop on Offensive Technologies (WOOT '23), Mai2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
On the Feasibility of Single-Trace Attacks on the Gaussian Sampler using a CDT	2023	Paper	S. Marzougui, I. Kabin, J. Krämer, T. Aulbach and J. Seifert		Constructive Side-Channel Analysis and Secure Design (COSADE 2023), Apr.2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Good Gottesman-Kitaev-Prekirk Codes from the NTRU Cryptosystem	2023	Paper	J. Conrad, J. Eisert and J. Seifert		Bulletin of the American Physical Society, March. 2023. APS. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Trade Reliability for Security: Leakage-Failure Probability Minimization for Machine-Type Communications in URLLC	2023	Paper	Y. Zhu, X. Yuan, Y. Hu, R. F. Schaefer, and A. Schmeink		IEEE Journal on Selected Areas in Communications, vol. 41, no. 7, pp. 2123–2137, Jul. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/JSA.2023.3280960.
Fairness-Aware Resource Allocation in Multi-Source WPCN in the Finite Blocklength Regime	2023	Paper	N. Guo, X. Yuan, Y. Hu, and A. Schmeink		IEEE Access, vol. 11, pp. 32348–32364, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/ACCESS.2023.3262931.
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Reliability-Oriented Resource Allocation for Wireless Powered Short Packet Communications with Multiple WPT Sources	2023	Paper	N. Guo, X. Yuan, Y. Hu, and A. Schmeink		IEEE Trans. Wireless Commun., pp. 1–1, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/TWC.2023.3267779.
Optimal User Grouping and Analytical Joint Resource Allocation Design	2023	Paper	X. Yuan, Y. Zhu, Y. Hu, B. Ai, and A. Schmeink		IEEE Trans. Wireless Commun. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Joint Transmit Power and Trajectory Design for UAV-Enabled Covert Communication	2023	Paper	P. Wu, X. Yuan, Y. Hu, H. Chen, and A. Schmeink		2023 IEEE Wireless Communications and Networking Conference (WCNC), Glasgow, United Kingdom: IEEE, Mar. 2023, pp. 1–6. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/WCNC55385.2023.10119048.
How to Trade Reliability for Security in Machine-type Communications: Leakage-Failure Probability Minimization	2023	Paper	Y. Zhu, X. Yuan, Y. Hu, R. F. Schaefer, and A. Schmeink		ICC 2023 - IEEE International Conference on Communications, Rome, Italy. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Semantic Reliability Maximization: A Cooperative Perspective in Integrated Sensing, Communication and Computation Networks	2023	Paper	Y. Zhu, X. Yuan, Y. Hu, and A. Schmeink		2023 IEEE Global Communications Conference (GLOBECOM). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Demonstration of a Real-Time 100G Ethernet Space Division Multiplexing PON Using a Weakly Coupled Multicore Fiber	2023	Paper	Sarah Cwalina, Sepideh Mohammadi Kouhni, Kai Habel, Volker Jungnickel, Ronald Freund		Ghent, Belgium, 11th International workshop on FIBER OPTICS in ACCESS NETWORKS, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, open access, October 2023	
From Empirical Measurements to Augmented Data Rates: A Machine Learning Approach for MCS Adaptation in Sidelink Communication	2023	Paper	Asif Abdullah Rokoni, Daniel Schäufele, Martin Kasparick, Slawomir Stanczak	HHI	Hongkong, VTC-Fall 2023, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, September 2023	
Prototyping Reconfigurable RRAM-Based AI Accelerators Using the RISC-V Ecosystem and Digital Twins	2023	Paper	Fritscher, M. et al.	IHP	In: Bienz, A., Weiland, M., Baboulin, M., Kruse, C. (eds) High Performance Computing, ISC High Performance 2023. Lecture Notes in Computer Science, vol 13999. Springer, Cham. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1007/978-3-031-40843-4_37
Challenges for designing an FPGA-based data link layer processor dedicated to sub-THz communication	2023	Paper	Yiyun Jian, Lukasz Lopacinski, Klaus Tittelbach-Helmrich, Matthias Scheide, Karthik KrishneGowda, Eckhard Grass	IHP	Workshop on Microwave Theory and Technology in Wireless Communications 2023 - IEEE MTTW Conference 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
A Four-Channel Bidirectional D-Band Phased-Array Transceiver for 200 Gb/s 6G Wireless Communications in a 130-nm BiCMOS Technology	2023	Paper	A.Karakuzulu, W. A. Ahmad, D. Kissingner and A. Malignaggi	IHP	IEEE Journal of Solid-State Circuits, vol. 58, no. 5, pp. 1310-1322, May 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/JSSC.2023.3232948.
A Broadband D-Band Power Detector System in SiGe 130 nm BiCMOS Technology	2023	Paper	C. Herold, T. Mausolf, C. Carta and A. Malignaggi	IHP	2023 18th European Microwave Integrated Circuits Conference (EuMIC), Berlin, Germany, 2023, pp. 145-148. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.23919/EuMIC58042.2023.10288992.
Ultra-High Data-Rate Wireless Access & Sensing Demonstrators in D-Band	2023	Paper	K. Krishnegowda, M. Scheide, C. Herold, M. Appel, L. Lopacinski, A. Malignaggi, C. Carta, E. Grass	IHP	Proc. European Conference on Networks and Communications & 6G Summit (EUCNC 2023), (2023). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Bit Error Rate Performance of Real-Valued Spreading Sequences in DSSS-CSK Based Wireless Communications	2023	Paper	L. Lopacinski, N. Maletic, A. Hasani, M. Nauman, J. Gutiérrez Teran, E. Grass	IHP	Proc. IEEE Workshop on Microwave Theory and Technology in Wireless Communications (MTTW 2023), 67 (2023). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Amplitude- and Phase-Modulated PSSS for Wide Bandwidth Mixed Analog-Digital Baseband Processors in THz Communication	2023	Paper	L. Lopacinski, N. Maletic, R. Kraemer, A. Hasani, J. Gutiérrez Teran, M. Krstic, E. Grass	IHP	Proc. 97th IEEE Vehicular Technology Conference (VTC 2023), (2023). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Broadband Hetero-Integration of InP Chiplets on SiGe BiCMOS for mm-Wave MMICs up to 325GHz	2023	Paper	M. Rausch et al.	IHP/FBH	2023 IEEE/MTT-S International Microwave Symposium - IMS 2023, San Diego, CA, USA, 2023, pp. 466-469. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	doi: 10.1109/IMS37964.2023.10188164
Heterointegration of mm-Wave InP-HBT Power Amplifier Chiplets on SiGe BiCMOS Chip	2023	Paper	H. Yacoub et al	IHP/FBH	2023 18th European Microwave Integrated Circuits Conference (EuMIC), Berlin, Germany, 2023, pp. 169-172. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Mimicking Diffie Hellman Key Exchange over a Full Duplex Wireless Channel via Bisperse Blind Deconvolution	2023	Paper	G. Wunder, A. Flinth, D. Becker, B. Gross	FU Berlin/ Umea University Sweden	IEEE 6th International Conference on Advanced Communication Technologies and Networking (CommNet'23), Casablanca, Morocco, December 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Guest Editorial Open RAN: A New Paradigm for Open, Virtualized, Programmable, and Intelligent Cellular Networks	2023	Paper	Michele Polese, Mischa Dohler, Falko Dressler, Melike Erol-Kantarci, Rittwik Jana, Raymond Knopp and Tommaso Melodia		IEEE Journal on Selected Areas in Communications, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Performance of Large Intelligent Surfaces in Multiuser Millimeter Wave MIMO-NOMA Systems	2023	Paper	Nouran Arafat, Engy A. Maher, Ahmed El-Mahdy and Falko Dressler		IEEE Access, December 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	

Side Effects of IRS: On the Need for Coordination in 6G Multi-Operator IRS-assisted Networks	2023	Paper	Joana Angjo, Anatolij Zubow and Falko Dressler	Proceedings of IEEE Global Communications Conference (GLOBECOM 2023), 4th Workshop on Emerging Topics in 6G Communications (6GComm), Kuala Lumpur, Malaysia, December 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Energy-Aware Resource Allocation and Trajectory Design for UAV-Enabled ISAC	2023	Paper	Ata Khalili, Atefeh Rezaei, Dongfang Xu and Robert Schober	Proceedings of IEEE Global Communications Conference (GLOBECOM 2023), Kuala Lumpur, Malaysia, December 2023, pp. 4200–4205. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Empowering the 6G Cellular Architecture with Open RAN	2023	Paper	Michele Polese, Mischa Dohler, Falko Dressler, Melike Erol-Kantarci, Rittwik Jana, Raymond Knopp and Tommaso Melodia	IEEE Journal on Selected Areas in Communications, November 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Low-Complexity Linear and Non-Linear Digital Self-Interference Cancellation	2023	Paper	Muhammad Nabeel, Akram Chbib, Muhammad Sohaib Amjad, Falko Dressler and Jürgen Peissig	Proceedings of IEEE Conference on Standards for Communications and Networking (CSCN 2023), Munich, Germany, November 2023, pp. 189–194. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
One-Class Support Vector Machine for WiFi-based Device-free Indoor Presence Detection	2023	Paper	Anatolij Zubow, Kim Felix Petto and Falko Dressler	Proceedings of European Wireless (EW 2023), Rome, Italy, October 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Resource Allocation for UAV-Assisted Industrial IoT User with Finite Blocklength	2023	Paper	Atefeh Rezaei, Ata Khalili and Falko Dressler	Proceedings of 98th IEEE Vehicular Technology Conference (VTC 2023-Fall), Hong Kong, China, October 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Matryoshka: Single RF Chain Multi-user Transmission through WiFi-in-WiFi Signal Emulation using COTS Hardware	2023	Paper	Piotr Gawlowicz, Anatolij Zubow and Falko Dressler	Proceedings of 29th ACM International Conference on Mobile Computing and Networking (MobiCom 2023), 17th ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WINTECH 2023), Madrid, Spain, October 2023, pp. 96–103. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Coexistence Challenges in IRS-assisted Multi-Operator Networks	2023	Paper	Joana Angjo	Proceedings of International Conference on Networked Systems (NetSys 2023), Poster Session, Potsdam, Germany, September 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Joint Active Precoding for RIS-aided Cell-free MIMO Networks	2023	Paper	Ghadir Dogim, Engy A. Maher, Ahmed El-Mahdy and Falko Dressler	Proceedings of 12th IFIP/IEEE International Conference on Performance Evaluation and Modeling in Wired and Wireless Networks (PEMWN 2023), Berlin, Germany, September 2023, pp. 1–6. Second Best Paper. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Focusing on Information Context for ITS using a Spatial Age of Information Model	2023	Paper	Julian Heinovski, Jorge Torres Gómez and Falko Dressler	Elsevier Computer Communications, vol. 209, pp. 203–216, September 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
TCOA: Triple-Check Offloading Algorithm for Roadside Units and Vehicular Microclouds in 5G Networks and Beyond	2023	Paper	Bo-Jun Qiu, Cheng-Ying Hsieh, Jyh-Cheng Chen and Falko Dressler	IEEE Access, vol. 11, pp. 84985–85001, August 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Cache Placement Optimization for Layered Video Content	2023	Paper	E. Recayte	IEEE Globecom 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Per-Replica Power Diversity in Grant-Free Multiple Access: Design and Performance Evaluation	2023	Paper	E. Recayte, F. Clazzer	IEEE Globecom 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Move Away from Me! User Repulsion Under Proximity-Induced Interference in OWC Systems	2023	Paper	O. Kundacina, M. Petkovic, A. Munari, D. Vukobratovic, L. Badia	Proc. IEEE European Wireless, Rome (Italy), 2–4 Oct. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Impact of Transmission Delays over Age of Information under Finite Horizon Scheduling	2023	Paper	A. Zancanaro, G. Csisotto, A. Munari, L. Badia	Proc. IEEE CAMAD, Edinburgh (Scotland), 6–8 Nov. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Remote Monitoring of Markov Sources over Random Access Channels: False Alarm and Detection Probability	2023	Paper	A. Munari, G. Cocco, G. Liva	Proc. IEEE Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA (US), 29 Oct. – 1 Nov. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
The Dynamic Behavior of Frameless ALOHA: Drift Analysis, Throughput, and Age of Information	2023	Paper	A. Munari, F. Lazaro, G. Durisi, G. Liva	IEEE Transactions on Communications, Vol. 71, No. 12, pp. 6914–6927, Dec. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Remote Monitoring of Two-State Markov Sources via Random Access Channels: an Information Freshness vs. State Estimation Entropy Perspective	2023	Paper	G. Cocco, A. Munari, G. Liva	IEEE Journal on Selected Areas in Information Theory, Vol. 4, pp. 651–666, Dec. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Uncertainty-based Fingerprinting Model Selection for Radio Localization	2023	Paper	M. Stahlike, T. Feigl, S. Kram, B. M. Eskofier and C. Mutschler	2023 13th International Conference on Indoor Positioning and Indoor Navigation (IPIN), Nuremberg, Germany, 2023, pp. 1–6. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Multipath Delay Estimation in Complex Environments using Transformer	2023	Paper	J. Ott, M. Stahlike, S. Kram, T. Feigl and C. Mutschler	2023 13th International Conference on Indoor Positioning and Indoor Navigation (IPIN), Nuremberg, Germany, 2023, pp. 1–6. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Semantic Communication for Edge Intelligence: Theoretical Foundations and Implications on Protocols	2023	Paper	Zoran Utkovski, Andrea Munari, Giuseppe Caire, Johannes Dommel, Pin-Hsun Lin, Max Franke, André C. Drummond, Sławomir Stanczak	IEEE Internet of Things Magazine, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, DOI: https://doi.org/10.1109/IOTM.001.2300167 , open access, December 2023
Ultra-Reliable Low-Latency Communications: Foundations, Enablers, System Design, and Evolution Towards 6G	2023	Paper (monograph)	N. H. Mahmood, I. Atzeni, E. Jorswieck and O. L. A. López	Foundations and Trends in Communications and Information Theory, Vol. 20: No. 5–6, pp. 512–747. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Learning-Based Secret Key Generation in Relay Channels Under Adversarial Attacks	2023	Paper	M. Letafati, H. Behroozi, B. Hossein Khalaj, E. Jorswieck	IEEE Open Journal of Vehicular Technology, vol. 4, pp. 749 – 764, Sept. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Spectral and Energy Efficiency Maximization of MISO STAR-RIS-assisted URLLC Systems	2023	Paper	M. Soleymani, I. Santamaria, E. Jorswieck	IEEE Access, vol. 11, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K
Approaching Global Optimum of Energy Efficiency in Cellular Networks via Machine Learning	2023	Paper	B. Peng, K.-L. Besser, R. Raghunath, E. Jorswieck	IEEE Transactions on Wireless Communications, vol. 22, no. 12, pp. 9313 – 9326, Dec. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K

Preallocation-based Combinatorial Auction for Efficient Fair Channel Assignments in Multi-Connectivity Networks	2023	Paper	D. Csercsik and E. Jorswieck	IEEE Transactions on Wireless Communications, vol. 22, no. 11, pp. 8407-8422, Nov. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
NOMA-Based Improper Signaling for Multicell MISO RIS-Assisted Broadcast Channels	2023	Paper	M. Soleymani, I. Santamaria, E. Jorswieck and S. Rezvani	IEEE Transactions on Signal Processing, vol. 71, pp. 963-978, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
AI-based Robust Resource Allocation in End-to-End Network Slicing under Demand and CSI Uncertainties	2023	Paper	A. Gharegholi, A. Nouruzi, N. Mokari, P. Azmi, M. R. Javan, E. Jorswieck	IEEE Trans. on Network and Service Management, vol. 20, no. 3, pp. 3630-3651, Sept. 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Data Sharing in Virtual Edge Computing using Coded Caching	2023	Paper	Gurjashan Singh Pannu, Seyhan Ucar, Takamasa Higuchi, Onur Altintas and Falko Dresler	Proceedings of 14th IEEE Vehicular Networking Conference (VNC 2023), Istanbul, Turkey, April 2023, pp. 104-111. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
A Digital Pre-Distortion Technique Canceling Code- and Voltage-Dependent Output Impedance Errors in Current-Steering DACs	2023	Paper	Helia Ordoeui, Clirim Alija, Patrick Kurth, Friedel Gerfers	2023 IEEE International Symposium on Circuits and Systems (ISCAS). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1109/ISCAS46773.2023.10181739
A 0.4 pJ/bit NRZ Voltage Mode VCSEL Driver for up to 224 Gbit/s SWDM Links	2023	Paper	Urs Hecht, Helia Ordoeui, Nikolay Ledentsov, Philipp Scholz, Patrick Kurth, Jlyia E. Titkov, Nikolay N. Ledentsov, Friedel Gerfers	2023 Optical Fiber Communications Conference and Exhibition (OFC). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1364/OFC.2023.M1E.4
The Fastest CMOS Single-Channel 5-bit Flash ADC Operating at 18.5 GS/s in 22 nm FD-SOI	2023	Paper	Nima Lotfi, Philipp Scholz, Friedel Gerfers	2023 18th European Microwave Integrated Circuits Conference (EuMIC). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.23919/EuMIC58042.2023.10280098
Private and Secure Over-the-Air Multi-Party Communication	2023	Paper	Jan Jonas Brune, Matthias Frey, Felix Klement, Igor Bjelakovic, Stefan Katzenbeisser, Sławomir Stanczak	Pacific Grove, CA, USA, 2023 57th Asilomar Conference on Signals, Systems, and Computers, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, DOI: 10.1109/IEEECONF59524.2023.10477045, open access, October 2023	
Learning Privacy-Preserving Channel Charts	2023	Paper	Patrick Agostini, Zoran Utkovski, Igor Bjelakovic, Sławomir Stanczak	Pacific Grove, CA, USA, 2023 57th Asilomar Conference on Signals, Systems, and Computers, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, DOI: 10.1109/IEEECONF59524.2023.10476839, open access, October 2023	
Channel Charting for Beam Management in Sub-THz Systems	2023	Paper	Patrick Agostini, Zoran Utkovski, Sławomir Stanczak	Pacific Grove, CA, USA, 2023 57th Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, DOI: 10.1109/IEEECONF59524.2023.10476798, open access, October 2023	
BISPARCs for Unsourced Random Access in Massive MIMO	2023	Paper	Patrick Agostini, Zoran Utkovski, Sławomir Stanczak	Pacific Grove, CA, USA, 2023 57th Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, DOI: 10.1109/IEEECONF59524.2023.10477087, open access, October 2023	
Fast Decoding of Lifted Interleaved Linearized Reed-Solomon Codes for Multishot Network Coding	2023	Paper	Hannes Bartz, Sven Puchinger	Designs, Codes and Cryptography. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K 2023	
Impact of Channel Models on Performance Characterization of RIS-Assisted Wireless Systems	2023	Paper	V. Jamali, W. Ghanem, R. Schober and H. V. Poor	2023 17th European Conference on Antennas and Propagation (EuCAP), Florence, Italy, 2023, pp. 1-5, doi: 10.23919/EuCAP57121.2023.10133758. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
NOMA-Based Coexistence of Near-Field and Far-Field Massive MIMO Communications	2023	Paper	Z. Ding, R. Schober and H. V. Poor	IEEE Wireless Communications Letters, vol. 12, no. 8, pp. 1429-1433, Aug. 2023, doi: 10.1109/LWC.2023.3277469. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
NOMA-Assisted Grant-Free Transmission: How to Design Pre-Configured SNR Levels?	2023	Paper	Z. Ding, R. Schober and H. V. Poor	IEEE Wireless Communications Letters, vol. 13, no. 2, pp. 412-416, Feb. 2024, doi: 10.1109/LWC.2023.3330785. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
HoloFed: Environment-Adaptive Positioning via Multi-Band Reconfigurable Holographic Surfaces and Federated Learning	2023	Paper	J. Hu, Z. Chen, T. Zheng, R. Schober and J. Luo	In <i>IEEE Journal on Selected Areas in Communications</i> , vol. 41, no. 12, pp. 3736-3751, Dec. 2023, doi: 10.1109/JSAC.2023.3322788. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Unveiling the Importance of NOMA for Reducing Aol	2023	Paper	Z. Ding, R. Schober and H. V. Poor	ICC 2023 - IEEE International Conference on Communications, Rome, Italy, 2023, pp. 2233-2238, doi: 10.1109/ICC45041.2023.10279047. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Codebook-Based User Tracking in IRS-Assisted mmWave Communication Networks	2023	Paper	M. Garkisch, V. Jamali and R. Schober	ICASSP 2023 - 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Rhodes Island, Greece, 2023, pp. 1-5, doi: 10.1109/ICASSP49357. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Accelerating Distributed Optimization via Over-the-Air Computing	2023	Paper	N. A. Mitsiou, P. S. Bouzinis, P. D. Diamantoulakis, R. Schober and G. K. Karagiannidis	IEEE Transactions on Communications, vol. 71, no. 9, pp. 5585-5579, Sept. 2023, doi: 10.1109/TCOMM.2023.3286915. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Impact of NOMA on Age of Information: A Grant-Free Transmission Perspective	2023	Paper	Z. Ding, R. Schober and H. V. Poor	IEEE Transactions on Wireless Communications, doi: 10.1109/TWC.2023.3313612. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
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Channel-aware Joint Aol and Diversity Optimization for Client Scheduling in Federated Learning with Non-IID Datasets	2023	Paper	M. Ma, V. W. S. Wong and R. Schober	IEEE Transactions on Wireless Communications, doi: 10.1109/TWC.2023.3330967. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Rate-Splitting for Intelligent Reflecting Surface-Aided Multiuser VR Streaming	2023	Paper	R. Huang, V. W. S. Wong and R. Schober	IEEE Journal on Selected Areas in Communications, vol. 41, no. 5, pp. 1516-1535, May 2023, doi: 10.1109/JSAC.2023.3240710. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
RIS-Assisted Device Activity Detection With Statistical Channel State Information	2023	Paper	F. Laue, V. Jamali and R. Schober	IEEE Transactions on Wireless Communications, vol. 22, no. 12, pp. 9473-9487, Dec. 2023, doi: 10.1109/TWC.2023.3271365. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Full-Duplex Operation of ISAC: Self-Interference Reduction from the Lens of IRS	2023	Paper	Ehsan Tohidi, Ramez Askar, Zoran Utkovski, Sławomir Stanczak	Kuala Lumpur, Malaysia, IEEE Global Communications Conference (GLOBECOM), The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K, DOI: 10.1109/GCWshps58843.2023.10464418, open access, December 2023	
Ensuring Trustworthy Automated Road Vehicles: A Software Integrity Validation Approach	2023	Paper	D. Püllen, F. Klement, A. Vinel, S. Katzenbeisser.	In 2023 IEEE International Automated Vehicle Validation Conference (IAVVC), Austin, TX, USA, 2023. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	DOI: 10.1109/IAVVC57316.2023.10328103

Secure Stitch: Unveiling the Fabric of Security Patterns for the Internet of Things	2023	Paper	E. Geloczi, F. Klement, E. Gründinger and S. Katzenbeisser		In 2023 Security and Trust Management. STM 2023. Lecture Notes in Computer Science, vol 14336. Springer. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	DOI: 10.1007/978-3-031-47198-8_4
GrGym: A Playground for Research on RL/AI Enhanced Wireless Networks	2022	Paper	Anatolij Zubow, Sascha Rösler, Piotr Gawlowicz and Falko Dressler		Proceedings of European Wireless (EW 2022), Dresden, Germany, September 2022. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Reconfigurable Intelligent Surface and UAV-Assisted THz Mobile Communications	2022	Paper	Sara Farrag, Engy A. Maher, Ahmed El-Mahdy and Falko Dressler		Proceedings of European Wireless (EW 2022), Dresden, Germany, September 2022. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
FTM-rs3: WiFi Fine Time Measurements for NS3	2022	Paper	Anatolij Zubow, Christos Laskos and Falko Dressler		Proceedings of 17th IEEE/IFIP Conference on Wireless On demand Network Systems and Services (WONS 2022), Virtual Conference, March 2022, pp. 1–7. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
Power Optimization of THz Band Heterogeneous Vehicular Networks	2022	Paper	Shady H. A. Samy, Engy A. Maher, Ahmed El-Mahdy and Falko Dressler		Proceedings of 13th IEEE Vehicular Networking Conference (VNC 2021), Virtual Conference, November 2021, pp. 107–114. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	
A Calibration-Free 96.7 dB SNDR 4 MS/s CT 1-SD Modulator With Single Feedback DAC	2022	Paper	Kai Misselwitz; Marcel Runge; Friedel Gerfers		2022 29th IEEE International Conference on Electronics, Circuits and Systems (ICECS). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1109/ICECS202256217.2022.9970789
A TI 12 GS/s Sampled Beam-Forming Receiver for a 2x2 Antenna-Array with 69 dBc SFDR	2022	Paper	Enne Wittenhagen; Patrick Kurth; Tobias Kaiser; Friedel Gerfers		2022 29th IEEE International Conference on Electronics, Circuits and Systems (ICECS). The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	https://doi.org/10.1109/ICECS202256217.2022.9970816
"Wi-Lo: Emulating LoRa using COTS WiFi	2021		Piotr Gawlowicz, Anatolij Zubow and Falko Dressler		arXiv, cs.NI, 2105.04998, May 2021. The authors acknowledge the financial support by the Federal Ministry of Education and Research of Germany in the programme of "Souverän. Digital. Vernetzt." Joint project 6G-RIC, project identification number: 16KISK020K	