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Organisationszugehörigkeiten

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Graz, Österreich

16 Apr. 2024 → present

Veröffentlichungen

Distributed MIMO Measurements for Integrated Communication and Sensing in an Industrial Environment

Nelson, C., Li, X., Fedorov, A., Deutschmann, B. & Tufvesson, F., März 2024, in: *Sensors*. 24, 5, 1385.

An Open Dataset Storage Standard for 6G Testbeds

Callebaut, G., Sandra, M., Nelson, C., Wilding, T., Delabie, D., Deutschmann, B. J. B., Tärneberg, W., Fitzgerald, E., Johansson, A. J. & Perre, L. V. D., 19 Dez. 2023, S. 347-352. 6 S.

Uplink Joint Positioning and Synchronization in Cell-Free Deployments with Radio Stripes

Fascista, A., Deutschmann, B. J. B., Keskin, M. F., Wilding, T., Coluccia, A., Witrisal, K., Leitinger, E., Seco-Granados, G. & Wymeersch, H., 23 Okt. 2023, *2023 IEEE International Conference on Communications Workshops: Sustainable Communications for Renaissance, ICC Workshops 2023*. Institute of Electrical and Electronics Engineers, S. 1330-1336 7 S.

XL-MIMO Channel Modeling and Prediction for Wireless Power Transfer

Deutschmann, B. J. B., Wilding, T., Graber, M. & Witrisal, K., 23 Okt. 2023, *2023 IEEE International Conference on Communications Workshops: Sustainable Communications for Renaissance, ICC Workshops 2023*. Institute of Electrical and Electronics Engineers, S. 1355-1361 7 S.

Bistatic MIMO Radar Sensing of Specularly Reflecting Surfaces for Wireless Power Transfer

Deutschmann, B. J. B., Graber, M., Wilding, T. & Witrisal, K., 2 Aug. 2023, *ICASSPW 2023 - 2023 IEEE International Conference on Acoustics, Speech and Signal Processing Workshops, Proceedings*. 4 S.

Large Intelligent Surface Measurements for Joint Communication and Sensing

Nelson, C., Li, X., Wilding, T., Deutschmann, B. J. B., Witrisal, K. & Tufvesson, F., 26 Juli 2023, *2023 Joint European Conference on Networks and Communications and 6G Summit, EuCNC/6G Summit 2023*. Curran Associates, Inc, S. 228-233 6 S.

Propagation Modeling for Physically Large Arrays: Measurements and Multipath Component Visibility

Wilding, T., Deutschmann, B. J. B., Nelson, C., Li, X., Tufvesson, F. & Witrisal, K., 26 Juli 2023, *2023 Joint European Conference on Networks and Communications and 6G Summit, EuCNC/6G Summit 2023*. Curran Associates, Inc, S. 204-209 6 S.

Towards sustainable networks

Mesodiakaki, A., Rahman, A., Barrachina, S., Deutschmann, B., Ghafouri, N., Gonzalez, R., Kokkinos, P., Merluzzi, M., Payaró, M., Polyzois, S., Ramantas, K., Scheuven, L., Selva, E., Siracusano, G., Upadhy, K., Van der Perre, L., Vardakas, J., Varvarigos, E., Verikoukis, C., Wilding, T., & 2 mehr Witrisal, K. & Wunderer, S., 6 Juni 2023, *Towards Sustainable and Trustworthy 6G: Challenges, Enablers, and Architectural Design*. Now Publishers Inc, S. 233-269 37 S.

Location-based Initial Access for Wireless Power Transfer with Physically Large Arrays

Deutschmann, B. J. B., Wilding, T., Larsson, E. G. & Witrissal, K., Mai 2022, *2022 IEEE International Conference on Communications Workshops (ICC Workshops)*. S. 127-132 6 S.

Analytical Performance Metrics and Physical-Layer Solutions

Behmanesh, B., Deutschmann, B., Edfors, O., Frenger, P., Ganesan, U. K., Helmersson, K. W., Larsson, E. G., Liu, L., Pollin, S., Ranjbar, V., Rimalapudi, S., Rivas, J. F. E., Shaik, Z. H., Viera, J., Wilding, T. & Witrissal, K., 1 Jan. 2022, Zenodo.

Initial assessment of architectures and hardware resources for a RadioWeaves infrastructure

Edfors, O., Brazil, R., Petautschnig, H., Callebaut, G., Feys, T., Perre, L. V. D., Larsson, E. G., Edfors, O., Fitzgerald, E., Liu, L., Sanchez, J. R., Tärneberg, W., Frenger, P., Deutschmann, B., Wilding, T. & Witrissal, K., 1 Jan. 2022, Zenodo.

HF RFID Tag Chip Impedance Measurements

Grosinger, J., Deutschmann, B. J. B., Zoscher, L., Gadringer, M. & Amtmann, F., 2022, in: *IEEE Transactions on Instrumentation and Measurement*. 71, 2000911 .

Use case-driven specifications and technical requirements and initial channel model

Truskaller, M., Fabrete, L., Stanek, A., Delabie, D., Perre, L. V. D., Larsson, E. G., Rimalapudi, S., Fitzgerald, E., Tufvesson, F., Edfors, O., Reial, A., Deutschmann, B., Witrissal, K., Wilding, T., Vandeweerd, I., Borrmann, M., Mühlmann, U. & Esteban, J. F., 1 Okt. 2021, Zenodo.

Calibration Method for an RF I-V Based HF RFID Impedance Measurement System

Deutschmann, B. J. B., Gadringer, M., Fischbacher, R., Görtzschacher, L., Amtmann, F., Merlin, E., Muehlmann, U. & Grosinger, J., 2021, *97th ARFTG Microwave Measurement Conference: Conducted and Ota Measurement Challenges for Urban, Rural and SatComm Connectivity, ARFTG 2021*. Institute of Electrical and Electronics Engineers, S. 1-4 4 S. 9639935

Efficient Assessment of the Impact of Metallic Obstacles on the Wireless Power Transfer in Loosely Coupled Links

Deutschmann, B., Görtzschacher, L. J. & Grosinger, J., 2019, *Proceedings of the European Microwave Conference 2019*. Institute of Electrical and Electronics Engineers, S. 579-582

Aktivitäten

The Potential of Physically Large Apertures for 6G

Benjamin Deutschmann (Redner/in)

14 Nov. 2023

Lunds Universitet

Benjamin Deutschmann (Gast)

8 Nov. 2023 → 24 Nov. 2023

IEEE Standards Association (Externe Organisation)

Benjamin Deutschmann (Vorsitzende/r)

30 Mai 2023 → 31 Dez. 2027

IEEE SA Synthetic Aperture Mini-Workshop

Benjamin Deutschmann (Redner/in), Thomas Wilding (Beitragende/r) & Klaus Witrissal (Beitragende/r)

19 Okt. 2022

RadioWeaves: Digitalization Use Cases Demanding a New 6G Wireless Infrastructure

Benjamin Deutschmann (Redner/in), Klaus Witrissal (Beitragende/r) & Thomas Wilding (Beitragende/r)

21 Sept. 2022

Online: Scientific Writing: From a Blank Page to the Finished Paper without Burning Out in the Process

Benjamin Jauk (Teilnehmer/-in), Benjamin Deutschmann (Teilnehmer/-in) & Fabio Eduardo Machado Charry (Teilnehmer/-in)

26 Nov. 2020 → 27 Nov. 2020