

## Publikationen

- (2020): Characterization and Production of PCB Structures With Increased Ratio of Electromagnetic Field in Air. In: IEEE Transactions on Microwave Theory and Techniques, vol. 68, no. 6, pp. 2134-2143. DOI: 10.1109/TMTT.2020.2983934.
- (2020): Multi-Layer Topology Optimization of Wideband SIW-to-Waveguide Transitions. In: IEEE Transactions on Microwave Theory and Techniques, vol. 68, no. 4, pp. 1326-1339. DOI: 10.1109/TMTT.2019.2959759.
- (2020): Cost-Effective Implementation of Air-Filled Waveguides on Printed Circuit Boards. [Invited Talk]. In: Proceedings of the IEEE Conference on Electrical Performance of Electronic Packaging and Systems (EPEPS). DOI: 10.1109/EPEPS48591.2020.9231382.
- (2020): Extracting Complex PCB Substrate Permittivity from a Transmission Line using the Finite Difference Integral Method from 10 GHz - 100 GHz. [Invited Talk]. In: Proceedings of the 2020 IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP). DOI: 10.1109/IMWS-AMP49156.2020.9199738.
- (2020): Design and Comparison of Filter Structures in the Millimetre Wave Frequency Range on Outer- and Inner-Layers of Organic Circuits Boards. [Invited Talk]. In: Proceedings of the 2020 European Microwave Conference (EuMC).
- (2020): Simulation and Measurement of PCB Crossover Structures from DC up to 70 GHz. [Invited Talk]. In: Proceedings of the 2020 German Microwave Conference (GeMiC).
- (2019): Projekt NePUMuk (Neue digitale Produktions- und Mikrostrukturierungstechnologien für Anwendungen bis 80 GHz). Abschlussbericht.
- (2019): Bare die connections via aerosol jet technology for millimeter wave applications. In: International Journal of Microwave and Wireless Technologies, vol. 11, no. Special Issue 5-6 (EuMW 2018 Special Issue (Part I)) [June], pp. 441-446. DOI: 10.1017/S1759078719000114.
- (2019): WR12 to planar transmission line transition on organic substrate. Invited Talk. In: 49th European Microwave Conference (EuMC), Paris, Frankreich.
- (2019): Simulation and Manufacturing of Low Loss PCB Structures with Additional Electromagnetic Field in Air. Invited Talk. In: IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes (IMWS-AMP), Bochum.
- (2019): Simulation and Manufacturing of Low Loss PCB Structures with Additional Electromagnetic Field in Air. In: Proceedings of the IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes (IMWS-AMP) [July 16-18, 2019; Bochum]. DOI: 10.1109/IMWS-AMP.2019.8880079.
- (2019): WR12 to planar transmission line transition on organic substrate. In: Proceedings of the 49th European Microwave Conference (EuMC)/European Microwave Week (EuMW) 2019 (September 29-October 4, 2019; Paris, France). DOI: 10.23919/EuMC.2019.8910843.
- (2018): Bare Die Connections via Aerosol Jet Technology for Millimeter Wave Applications. In: Proceedings of the 48th European Microwave Conference (EuMC)/European Microwave Week (EuMW) 2018 (September 24-28, 2018; Madrid, Spain).
- (2017): Projekt NePUMuk (Neue digitale Produktions- und Mikrostrukturierungstechnologien für Anwendungen bis 80 GHz). Projektbericht.

(2017): Cost-Effective SIW Band-Pass Filters for Millimeter Wave Applications. In: Proceedings of the 47th European Microwave Conference (EuMC)/European Microwave Week (EuMW) 2017 (October 8-12, 2017, Nürnberg). DOI: 10.23919/EuMC.2017.8230878.

(2016): Differential Wideband Interconnects for Organic Millimeter Wave Chip Packages. An effort to design an all-purpose RF chip package. In: Proceedings of the 11th European Microwave Integrated Circuits Conference 2016 (October 03-04 2016, London, UK).

(2016): Differential Wideband Interconnects for Organic Millimeter Wave Chip Packages. An effort to design an all-purpose RF chip package. In: Proceedings of the 46th European Microwave Conference (EuMC)/European Microwave Week (EuMW) 2016 (October 03-07 2016, London, UK).

(2013): High Frequency PCB Design up to 67 GHz. Workshop. In: European Microwave Week 2013, Nürnberg.

(2012): Performance of Coherent Time Delay Estimation Techniques for Frequency Hopping GSM Signals. In: Radio Wireless Week (RWW)/Wireless Sensors and Sensor Networks (WiSNet) 2012, Piscataway, NJ.

(2012): A smart jamming system for UMTS/WCDMA cellular phone networks for search and rescue applications. In: IEEE/MTT-S International Microwave Symposium digest (MTT), 2012, Piscataway, NJ. DOI: 10.1109/MWSYM.2012.6257769.

(2011): Influencing Cell Reselection of UMTS User Equipment Using Interference Injection. Workshop. In: Workshop on Radar, Communication and Measurement (RADCOM), Hamburg.

(2011): A Burst Phase Analysis Technique for High Precision Time Delay Estimation of Frequency Hopping GSM Signals. In: Asia-Pacific Microwave Conference proceedings (APMC), 2011, Piscataway, NJ.

(2011): Algorithms for High Resolution Time Difference of Arrival Estimation for GSM Mobile Phones. In: Kleinheubacher Tagung 2011, Miltenberg.

(2011): Ortung von GSM Mobiltelefonen zur Vermissten- und Verschüttetensuche. In: Electrical and Electronic Engineering for Communication (EEECOM) 2011, Ulm.

(2011): A Time Difference of Arrival System Architecture for GSM Mobile Phone Localization in Search and Rescue Scenarios. In: Workshop on Positioning, Navigation and Communication (WPNC), Dresden.

(2011): A new technique to improve AoA using dual polarization. In: 41st European Microwave Conference 2011, [London, UK].

(2011): A wideband crosscorrelation technique for high precision time delay estimation of frequency hopping GSM signals. In: 41st European Microwave Conference 2011, [London, UK].

(2011): A time difference of arrival system architecture for GSM mobile phone localization in search and rescue scenarios. In: 8th Workshop on Positioning, Navigation and Communication (WPNC), 2011, Piscataway, NJ.

(2011): Triggering UMTS user equipment inter-RAT cell reselection using noise jammers. In: German Microwave Conference (GeMiC), 2011, Piscataway, NJ.

(2011): A GSM-network for mobile phone localization in disaster scenarios. In: German Microwave Conference (GeMiC), 2011, Piscataway, NJ.

(2011): A New System for Mobile Phone Localization for Search and Rescue Applications. In: Proceedings of the 6th Future Security Research Conference (September 5th - 7th 2011, Berlin), Stuttgart.

(2011): A power sensor unit for the localization of GSM mobile phones for search and rescue applications. In: IEEE Sensors 2011 Conference, [Piscataway, N.J.]. DOI: 10.1109/ICSENS.2011.6127162.

(2011): A power saving jamming system for E-GSM900 and DCS1800 cellular phone networks for search and rescue applications. In: 2011 IEEE Topical Conference on Wireless Sensors and Sensor Networks, Piscataway, NJ. DOI: 10.1109/WISNET.2011.5725020.



- (2010): A Novel Technique for Mobile Phone Localization for Search and Rescue Applications. In: Fachausschusssitzung der Informationstechnischen Gesellschaft (ITG), Ilmenau.
- (2010): A new Approach on Mobile Phone Localization for Search and Rescue Applications. In: ITG-Fachausschuss 7.2: Funksysteme "Funklokalisierung - sicher, schnell und genau", Ilmenau.
- (2010): A novel technique for mobile phone localization for search and rescue applications. In: 2010 International Conference on Indoor Positioning and Indoor Navigation, [Piscataway, N.J.]. DOI: 10.1109/IPIN.2010.5647107.
- (2009): Localization for Search and Rescue Applications. Workshop. In: IEEE COM 2009, Ulm.
- (2009): Localization for Search and Rescue Applications. Workshop. In: 2009 IEEE Radio Wireless Symposium (RWS), San Diego, CA, USA.
- (2009): Ortung verschütteter Personen anhand ihrer GSM-Mobiltelefone. In: RadioTecC - Transmit&TestSolutions 2009, Berlin.
- (2009): Ortung von GSM-Mobiltelefonen in Katastrophenszenarien. In: ION-CH AHORN 2009 (Eidgenössische Technische Hochschule Zürich), Zürich, Schweiz.
- (2009): Ortung von GSM-Mobiltelefonen in Katastrophenszenarien. In: Navigationskonvent 2009 der Deutschen Gesellschaft für Ortung und Navigation e.V. (DGON), Berlin.
- (2008): A Novel Technique for Determining Kernels of Volterra Based Behavioral Models for RF Amplifiers. In: The 38th European Microwave Conference, London. DOI: 10.1109/EUMC.2008.4751434.