

Publikationen

Buchbeitrag

Gesture recognition to control a moving robot with FMCW radar

Maiwald, Timo; Gabsteiger, Jasmin; Weigel, Robert; Lurz, Fabian

In: 2024 IEEE Radio and Wireless Symposium (RWS) - New York : IEEE, S. 105-108 [2024 IEEE Radio and Wireless Symposium (RWS), San Antonio, TX, USA, 21-24 January 2024]

› Publikationslink (<http://dx.doi.org/10.1109/rws56914.2024.1043856>)

Buchbeitrag

Direct sampling receiver with an adjustable bandpass filter for use in passive radar with FM radio

Horlbeck, Marie; Fiedelak, Jonathan; Kurin, Thomas; Scheiner, Benedict; Weigel, Robert; Lurz, Fabian

In: 2024 IEEE Radio and Wireless Symposium (RWS) - New York : IEEE, S. 102-104 [2024 IEEE Radio and Wireless Symposium (RWS), San Antonio, TX, USA, 21-24 January 2024]

› Publikationslink (<http://dx.doi.org/10.1109/RWS56914.2024.1043862>)

Buchbeitrag

Resonate-and-fire spiking neurons for hand gesture label refinement

Shaaban, Ahmed; Chaabouni, Zeineb; Strobel, Maximilian; Furtner, Wolfgang; Weigel, Robert; Lurz, Fabian

In: 2024 IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNeT) - New York : IEEE, S. 53-56 [2024 IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNeT), San Antonio, TX, USA, 21-24 January 2024]

› Publikationslink (<http://dx.doi.org/10.1109/WiSNeT59910.2024.1043864>)

Buchbeitrag

Deep learning-based person detection on a moving robot

Gabsteiger, Jasmin; Maiwald, Timo; Kurin, Thomas; Dorn, Christian; Weigel, Robert; Lurz, Fabian

In: 2024 IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNeT) - New York : IEEE, S. 41-44 [2024 IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNeT), San Antonio, TX, USA, 21-24 January 2024]

› Publikationslink (<http://dx.doi.org/10.1109/WiSNeT59910.2024.1043856>)

Begutachteter Zeitschriftenartikel

Overview of passive radar and its receiver architectures to enhance safety in civil aviation - a comprehensive analysis of history, principles, and performance optimization strategies

Horlbeck, Marie; Scheiner, Benedict; Weigel, Robert; Lurz, Fabian

In: IEEE microwave magazine / Institute of Electrical and Electronics Engineers - Piscataway, NJ : IEEE, Bd. 25 (2024), Heft 5, S. 53-71

›[Publikationslink \(http://dx.doi.org/10.1109/mmm.2024.336399\)](http://dx.doi.org/10.1109/mmm.2024.336399)

Begutachteter Zeitschriftenartikel

RT-SCNNs - real-time spiking convolutional neural networks for a novel hand gesture recognition using time-domain mm-wave radar data

Shaaban, Ahmed; Strobel, Maximilian; Further, Wolfgang; Weigel, Robert; Lurz, Fabian

In: International journal of microwave and wireless technologies - Cambridge : Cambridge Univ. Press . - 2024, insges. 13 S.

›[Publikationslink \(http://dx.doi.org/10.1017/s175907872300157\)](http://dx.doi.org/10.1017/s175907872300157)

Buchbeitrag

Low-cost, high-stability arbitrary clock source using software GNSS drift correction

Dorn, Christian; Kurin, Thomas; Gabsteiger, Jasmin; Lurz, Fabian; Hagelauer, Amelie

In: 2020 IEEE MTT-S Latin America Microwave Conference (LAMC 2020) - [Piscataway, NJ] : IEEE . - 2023, S. 61-64

›[Publikationslink \(http://dx.doi.org/10.1109/lamc59011.2023.1037561\)](http://dx.doi.org/10.1109/lamc59011.2023.1037561)

Begutachteter Zeitschriftenartikel

Light-weight and person-independent radar-based Hand gesture recognition for classification and regression of continuous gestures

Stadelmayer, Thomas; Hassab, Youcef; Servadei, Lorenzo; Santra, Avik; Weigel, Robert; Lurz, Fabian

In: IEEE internet of things journal / Institute of Electrical and Electronics Engineers - New York, NY : IEEE - 2023, insges. 15 S.

›[Publikationslink \(http://dx.doi.org/10.1109/jiot.2023.334730\)](http://dx.doi.org/10.1109/jiot.2023.334730)

Begutachteter Zeitschriftenartikel

Towards embedded radcom-sensors in wind turbine blades - preliminary numerical and experimental studies

Simon, Jonas; Moll, Jochen; Krozer, Viktor; Kurin, Thomas; Lurz, Fabian; Weigel, Robert; Krause, Stefan W.; Bagemiel, Oliver; Nuber, Andreas; Issakov, Vadim

In: Progress in electromagnetics research. Letters - Cambridge, Mass. : EMW, Bd. 90 (2020), S. 61-67

