



Projekta Izp-2020/2-0270 rezultāti

Mākslīgā intelekta lietojums multi-statiska ultraplatjoslas impulsa radara signālu analīzē materiālu un struktūras nesagraujošai noteikšanai.

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

1. Aristov, V.; Greitans, M. Determination of the Electrophysical Parameters of Dielectric Objects via the Processing of Ultra-Wideband Pulse Radar Signals. - Autom. Control Comput. Sci., 2021, 55 (6), 577-587, <https://doi.org/10.3103/S014641162106002X>
2. Gaigals, G.; Aristov, V.; Greitans, M. Conformance analysis of model for material properties determination using simulation of ultra-wideband pulse radar. - 2021 IEEE Workshop on Microwave Theory and Techniques in Wireless Communications, MTTW 2021, Institute of Electrical and Electronics Engineers Inc.: pp 35-39.
<https://doi.org/10.1109/MTTW53539.2021.9607069>
3. Gaigals, G.; Maliks, R.; Aristov, V.; Savelis, R.; Simanovics, J.; Lobanovs, E.; Egliens, H.; Laksis, D.; Greitans, K. M.; Greitans, M. Evaluation of Materials and Structures with a Multistatic Ultra-Wideband Impulse Radar: A Concept Validation. - Appl. Sci., 2023, 13 (3),
<https://doi.org/10.3390/app13031636>
4. Greitans, K.; Greitans, M. Multi-static UWB radar for classification of objects from different materials. - 2021 IEEE Workshop on Microwave Theory and Techniques in Wireless Communications, MTTW, 2021, Institute of Electrical and Electronics Engineers Inc.: pp 7-11.
<https://doi.org/10.1109/MTTW53539.2021.9607171>
5. Greitans, K.; Greitans, M. Applicability of different neural network architectures in UWB signal processing for different object classification. - 2022 Workshop on Microwave Theory and Techniques in Wireless Communications, MTTW. 2022, Institute of Electrical and Electronics Engineers Inc.: pp 138-143. <https://doi.org/10.1109/MTTW56973.2022.9942603>

