

## **An Analysis of Arterial Pulse Wave Time Features and Pulse Wave Velocity Calculations Based on Radial Electrical Bioimpedance Waveforms in Patients Scheduled for Coronary Catheterization**

Lotamöis, Kristina; Uuetoa, Tiina; Krivošei, Andrei; Annus, Paul; Metshein, Margus; Rist, Marek; Margus, Sulev; Min, Mart; Tamberg, Gert Journal of Cardiovascular Development and Disease 2025 / art. 237 <https://doi.org/10.3390/jcdd12070237>

## **CNN-Transformer Hybrid Model Towards Automated Droplet Image Quality Assessment of Portable Imaging Flow Cytometer**

Afrin, Fariha; Ndubuisi Ezechukwu, Dismas; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas; Koel, Ants IEEE EUROCON 2025 2025 / 6 p

## **Deliverable 2.7 Initial AI-Driven Edge Computing and Precise Localization Demonstrator**

Müürsepp, Ivo 2023 [Deliverable 2.7 Initial AI-Driven Edge Computing and Precise Localization Demonstrator \(PDF\)](#)

## **Detection of surface defects in metals : a case study**

Märtens, Olev; Land, Raul; Metshein, Margus; Abdullayev, Anar; Vennikas, Henri; Le Moullec, Yannick; Rist, Marek Proceedings of the Estonian Academy of Sciences 2025

## **Development of experimental set-up for the investigation of photoelectric response of the pyroelectric crystal to short pulses of the Hg(Xe) lamp**

Podgurski, Vitali; Land, Raul; Bogatov, Andrei; Vlasov, A.; Nagorny, A.; Tiik, K. Journal of optoelectronics and advanced materials 2024 / p. 243 - 245 <https://joam.inoe.ro/articles/development-of-experimental-set-up-for-the-investigation-of-photoelectric-response-of-the-pyroelectric-crystal-to-short-pulses-of-the-hgxe-lamp/fulltext> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Development, implementation and field trial of 5G integrated GNSS-RTK positioning in cross-border settings**

Elgarhy, Osama; Rohtla, Margus; Ait, Indur; Roosipuu, Priit; Kõrbe Kaare, Kati; Sadam, Arvi; Kallaspoolik, Toomas; Alam, Muhammad Mahtab 2024 IEEE Future Networks World Forum (FNWF) 2025 / p. 791-796 <https://doi.org/10.1109/FNWF63303.2024.11028789>

## **Droonid ja tarkvararaadiod ehk väikeriigi õppetunde elektroonilisest võitlusest**

Piip, Kaarel; Müürsepp, Ivo; Ruuben, Toomas Sõjateadlane = Estonian journal of military studies 2025 / lk. 53 - 79 [https://www.kvak.ee/files/2025/02/ST\\_24\\_veebifail.pdf](https://www.kvak.ee/files/2025/02/ST_24_veebifail.pdf)

## **DSP-based electrical impedance tomography device: implementation and experiments**

Abdullayev, Anar; Rist, Marek; Metshein, Margus; Märtens, Olev 2025 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) 2025 / 6 p <https://doi.org/10.1109/I2MTC62753.2025.11079140>

## **Lightweight CNN-based Microfluidic Droplet Classification for Portable Imaging Flow Cytometry**

Afrin, Fariha; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas Proceedings of the Estonian Academy of Sciences 2025 / p. 302-311 <https://doi.org/10.3176/proc.2025.2S.05>

## **Reconfigurable intelligent surfaces in 6G radio localization: A survey of recent developments, opportunities, and challenges**

Umer, Anum; Müürsepp, Ivo; Alam, Muhammad Mahtab; Wymeersch, Henk IEEE Communications Surveys & Tutorials 2025 / 36 p <http://doi.org/10.1109/COMST.2025.3536517>

## **Reconfigurable intelligent surfaces in dynamic rich scattering environments : BiLSTM-based optimization for accurate user localization**

Umer, Anum; Müürsepp, Ivo; Alam, Muhammad Mahtab 2024 3rd International Conference on 6G Networking (6GNet) 2024 / p. 122-126 <https://doi.org/10.1109/6GNet63182.2024.10765779>

## **Three-dimensional finite element modelling of chemical environment in droplet-based microfluidic systems for drug therapy applications**

Szomor, Zsombor; Gyimah, Nafisat; Pardy, Tamas; Fürjes, Peter Physics of fluids 2025 / art. 072045 <https://doi.org/10.1063/5.0275809>

## **Towards controllable electrospinning: a systematic analysis of the effect of input parameters on nanofiber morphology**

Mahdian, Mehrab; Stummer, Tamas; Sepsik, Norman; Ender, Ferenc; Balogh-Weiser, Diana; Pardy, Tamas techrxiv.org 2025 / 86 p <https://doi.org/10.36227/techrxiv.174662365.53016549/v1>

## **UWB and GNSS Sensor Fusion Using ML-Based Positioning Uncertainty Estimation**

Tommingas, Mihkel; Laadung, Taavi; Varbla, Sander; Müürsepp, Ivo; Alam, Muhammad Mahtab IEEE Open Journal of the Communications Society 2025

## **Wideband frequency response analysis for sensitive condition estimation of machine's turn insulation degradation faults**

Sardar, Muhammad Usman; Vaimann, Toomas; Kütt, Lauri; Asad, Bilal; Kallaste, Ants; Land, Raul 2025 IEEE Workshop on

