

Comparative analysis of microplastics detection methods applied to marine sediments: A case study in the Bay of Marseille

Gerigny, Olivia; Blanco, Gustavo; **Lips, Urmas; Buhhalko, Natalja**; Chouteau, Leelou; Georges, Elise; Meyers, Nelle; Vanavermaete, David; Galgani, François; Ourgaud, Melanie; Papillon, Laure; Sempéré, Richard; De Witte, Bavo Marine pollution bulletin 2024 / art. 116787 <https://doi.org/10.1016/j.marpolbul.2024.116787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Deep Transfer Learning Approach Using Filtered Time-Frequency Representations of Current Signals for Bearing Fault Detection in Induction Machines

El Bouharroui, Nada; Nemat Saberi, Alireza; Hussain Khan, Muhammad Dayyan; **Kudelina, Karolina; Naseer, Muhammad Usman**; Belahcen, Anouar IET Electric Power Applications 2025 <https://doi.org/10.1049/elp2.70074>

Detection efficiency calibration of Si-SPAD detectors via comparison with a Si-standard diode

Dhoska, Klodian; Hofer, Helmuth; Lopez, Marco; Rodiek, Beatrice; **Kübarsepp, Toomas**; Kück, Stefan Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 110-115 : ill <http://innomet.ttu.ee/daaam/>

Detection of deuterium retention by LIBS at different background pressures

Paris, Peeter; Butikova, J.; Laan, Matti; Aints, Mart; Hakola, A.; Piip, Kaarel; **Tufail, Iram**; Veis, P. Physica scripta 2017 / art. 014003, 5 p. : ill <https://doi.org/10.1088/0031-8949/2017/T170/014003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of γ -hydroxybutyric acid in saliva by capillary electrophoresis coupled with contactless conductivity and indirect UV absorbance detectors

Mazina, Jekaterina; Saar-Reismaa, Piret; Kulp, Maria; Kaljurand, Mihkel; Vahe, Merike Electrophoresis 2015 / p. 3042-3049 : ill <https://doi.org/10.1002/elps.201500293> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 46

Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Proceedings of The 8th International Conference on Molecular Imprinting (MIP2014). Session 8 2014 / p. P-007

Development of analysis methods to detect the use of explosives and chemical warfare agents = Analüüsimetoodikate arendamine keemiarelv- ja lõhkeainete kasutamise tuvastamiseks

Lees, Heidi 2018 <https://digi.lib.ttu.ee/i/?10379> https://www.ester.ee/record=b5148514*est

Development of high sensitive and rapid test system for simultaneous quantitative and qualitative detection of plant viruses

Raudsepp, Raul; Reintamm, Tõnu; **Järvekülg, Lilian** International Symposium 75 Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : programme, abstracts, list of participants 1995 / p. P21

Distributed adaptive largest eigenvalue detection with SNR weighted observations [Online resource]

Ainomäe, Ahti; Trump, Tõnu; Le Moullec, Yannick BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600974>

A distributed and incremental algorithm for large-scale graph clustering

Inoubli, Wissem; Aridhi, Sabeur; Mezni, Haithem; Maddouri, Mondher; Mephu Nguifo, Engelbert Future generation computer systems 2022 / p. 334-347 <https://doi.org/10.1016/j.future.2022.04.013>

Distributed largest eigenvalue detection

Ainomäe, Ahti; Trump, Tõnu; Bengtsson, Mats 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 3519-3523 : ill <https://doi.org/10.1109/ICASSP.2017.7952811> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

An energy efficient wearable tissue monitor

Annus, A.; **Kuusik, Alar; Land, Raul; Haldre, Eero; Min, Mart; Parve, Toomas; Poola, Gustav** 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBIT2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 240-243 https://link.springer.com/chapter/10.1007/978-3-540-73841-1_64

Enhanced Crack Detection in Composite Plates : Integrating Haar Wavelet Transform with Convolutional Neural

Networks

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo 6th International Conference on Multidisciplinary Design Optimization and Applications (MDOA 2024) 2025 / art. 01008 https://www.e3s-conferences.org/articles/e3sconf/abs/2025/31/e3sconf_mdoa2025_01008/e3sconf_mdoa2025_01008.html
<https://doi.org/10.1051/e3sconf/202563101008>

Enhancing binding properties of imprinted polymers for the detection of small molecules

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Tretjakov, Aleksei; Sõritski, Vitali Proceedings of the Estonian Academy of Sciences 2018 / p. 138–146 : ill <https://doi.org/10.3176/proc.2018.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A hierarchical approach for devising area efficient concurrent online checkers

Niazmand, Behrad; Azad, Siavoosh Payandeh; Ghasempouri, Tara; Raik, Jaan; Jervan, Gert Proceedings 2nd IEEE International Test Conference in Asia : ITC-Asia 2018, 15-17 August 2018, Harbin, China 2018 / p. 139-144 : ill
<https://doi.org/10.1109/ITC-Asia.2018.00034>

Improvement of the detection efficiency calibration and homogeneity measurement of SiLSPAD detectors

Dhoska, Klodian; Hofer, Helmuth; Rodiek, Beatrice; Lopez, Marco; Kübarsepp, Toomas; Kück, Stefan SpringerPlus 2016 / p. 1-14 : ill <https://doi.org/10.1186/s40064-016-3735-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In-depth feature selection for the statistical machine learning-based botnet detection in IoT networks

Kalakoti, Rajesh; Nömm, Sven; Bahsi, Hayretin IEEE Access 2022 / p. 94518-94535
<https://doi.org/10.1109/ACCESS.2022.3204001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An international multi-center serum protein electrophoresis accuracy and M-protein isotyping study. Part II: limit of detection and follow-up of patients with small M-proteins

Jacobs, Joannes; Turner, Katherine; Graziani, Maria Stella; Zemtsovskaja, Galina Clinical chemistry and laboratory medicine (CCLM) 2020 / p. 547-559 : ill <https://doi.org/10.1515/cclm-2019-1105>

A matched filter technique for slow radio transient detection and first demonstration with the Murchison Widefield Array

Feng, L.; Vaulin, R.; Hewitt, J. N.; Remillard, R.; Kudryavtseva, Nadezhda The astronomical journal 2017 / art. 98
<https://doi.org/10.3847/1538-3881/153/3/98> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On the application of active learning for efficient and effective IoT botnet detection

Guerra Manzanares, Alejandro; Bahsi, Hayretin Future Generation Computer Systems 2023 / p. 40-53 : ill
<https://doi.org/10.1016/j.future.2022.10.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Online detection of out-of-step condition using PMU-determined system impedances

Tealane, Marko; Kilter, Jako; Popov, Marjan; Bagleybter, Oleg; Klaar, Danny IEEE Access 2022 / p. 14807-14818
<https://doi.org/10.1109/ACCESS.2022.3149103> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optical self-mixing as a method for blood flow detection

Kattai, Rain; Meigas, Kalju; Lass, Jaanus Biomedical Engineering : proceedings of International Conference, Kaunas, 22-23 October, 1998 1998 / p. 5-8: ill

Portable automated handheld sample collection-preparation instrument for airborne volatile substances

Bimbiraite-Surviliene, Kristina; Drevinskas, Tomas; Maruska, Audrius; Kornysova, Olga; Gorbatšova, Jelena; Ihara, Hirotaaka; Kaljurand, Mihkel Microchemical journal 2020 / art. 105576 <https://doi.org/10.1016/j.microc.2020.105576> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reduction of detection limits in capillary zone electrophoresis using the multiplex technique

Ebber, Arkadi; Kaljurand, Mihkel 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 30: ill

A review on the application of machine learning in gamma spectroscopy : challenges and opportunities

Zehtabvar, Mehrnaz; Taghandiki, Kazem; Madani, Nahid; Sardari, Dariush; Bashiri, Bashir Spectroscopy journal 2024 / p. 123-144 <https://doi.org/10.3390/spectroscj2030008>

Robust detectors for cognitive radio system

Trump, Tõnu; Khan, Imtiaz EURASIP journal on wireless communications and networking 2015 / p. 1-16 : ill
<https://doi.org/10.1186/s13638-015-0487-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Self-mixing in a diode laser as a method for coherent photodetection

Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 4, p. 307-316

Surface vessel localization from wake measurements using an array of pressure sensors in the littoral zone

Rätsep, Margus; Parnell, Kevin Ellis; Soomere, Tarmo; Kruusmaa, Maarja; Ristolainen, Asko; Tuhtan, Jeffrey Andrew
Ocean engineering 2021 / art. 109156 <https://doi.org/10.1016/j.oceaneng.2021.109156> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

Tomographic approach for tropospheric water vapor detection

Miidla, Peep; **Rannat, Kalev**; Uba, Peep Computational methods in applied mathematics 2008 / 3, p. 263-278

Tsoonkapillaarelektroforeesi detekteerimispiiri alandamine multipleksmeetodi abil

Ebber, Arkadi; Kaljurand, Mihkel XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 25: ill

Ultrasound sensor in integrated presence detection system

Kuusik, Alar Telekommunikatsioon '98 : rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid, 15. mai 1998 1998 / lk. 79-83: ill

Using Incremental Inductive Logic Programming for Learning Spoofing Attacks on Maritime Automatic Identification System Data

Benterki, Aboubaker Seddiq; Visky, Gabor; Vain, Jüri; Tsiopoulos, Leonidas Maritime Cybersecurity 2025 / p. 123-141
https://doi.org/10.1007/978-3-031-87290-7_7

Когерентное фотодетектирование газовым лазером

Zahharov, Boriss; Meigas, Kalju; Hinrikus, Hiie Квантовая электроника 1990 / 2, с. 240-244

Когерентное фотодетектирование при совмещенном режиме лазера

Zahharov, Boriss; Meigas, Kalju; Hinrikus, Hiie Тезисы докладов III Всесоюзной конференции "Применение лазеров в технологии и системах передачи и обработки информации", 11-13 ноября 1987 г. 3, Лазерные системы передачи и обработки информации 1987 / с. 17 https://www.ester.ee/record=b1273195*est