

ANN-LSTM based tool for photovoltaic power forecasting

Zahraoui, Younes; Korötko, Tarmo; Mekhilef, Saad; Rosin, Argo 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE) : proceedings 2024 / 6 p. : ill <https://doi.org/10.1109/SGRE59715.2024.10428969>

Barotropic trends through the Barents Sea opening for the period 1975–2021

Jahanmard, Vahidreza; Löptien, Ulrike; Sandø, Anne Britt; Gierisch, Andrea M. U.; Dietze, Heiner; Lien, Vidar; Delpeche-Ellmann, Nicole Camille; Hordoir, Robinson Journal of Geophysical Research: Oceans 2025 / art. e2024JC021663
<https://doi.org/10.1029/2024JC021663>

Comparative analysis of machine learning techniques for non-intrusive load monitoring

Shabbir, Noman; Vassiljeva, Kristina; Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Petlenkov, Eduard; Belikov, Juri Electronics 2024 / art. 1420 <https://doi.org/10.3390/electronics13081420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A data-fusion technique for forecasting of absolute sea levels in the Baltic Sea

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p [A data-fusion technique for forecasting of absolute sea levels in the Baltic Sea](#)

Deep learning based audio-visual emotion recognition in a smart learning environment

Dunajeva, Olga; Pentel, Avar; Ivleva, Natalja; Juštšenko, Valeria Towards a Hybrid, Flexible and Socially Engaged Higher Education : proceedings of the 26th International Conference on Interactive Collaborative Learning (ICL2023), vol. 1 2024 / p. 420-431 https://doi.org/10.1007/978-3-031-51979-6_44 [Conference proceedings at scopus](#) [Article at Scopus](#) [Article at WOS](#)

Deep reinforcement learning for automated tuning of cavity filters

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv Proceedings of IEEE Forum International Conference 2019 / p. 53
http://www.digitalxplore.org/up_proc/pdf/408-154943387153.pdf

Deep-learning based blood cells classification and initial edge device implementation

Islam, Md. Raisul; Le Moullec, Yannick; Afrin, Fariha; Ahmed, Faisal 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. : ill <https://doi.org/10.1109/BEC56180.2022.9935610>

DenseDisp: Resource-Aware Disparity Map Estimation by Compressing Siamese Neural Architecture

Loni, Mohammad; Zoljodi, Ali; Maier, Daniel; Majd, Amin; Daneshtalab, Masoud; Sjödin, Mikael; Juurlink, Ben H.H.; Akbari, Reza 2020 IEEE Congress on Evolutionary Computation (CEC) : conference proceedings 2020 / 8 p
<https://doi.org/10.1109/CEC48606.2020.9185611>

Double deep Q-Learning approach for tuning microwave cavity filters using locally linear embedding technique

Sekhri, Even; Kapoor, Rajiv; Tamre, Mart 2020 International Conference Mechatronic Systems and Materials (MSM) 2020 / 6 p. : ill <https://doi.org/10.1109/MSM49833.2020.9202393>

Early detection of network attacks using deep learning

Ahmad, Tanwir; Truscan, Dragos; Vain, Jüri; Porres, Ivan 2022 IEEE 15th International Conference on Software Testing, Verification and Validation Workshops : ICSTW 2022, 4–13 April 2022, Virtual Event : proceedings 2022 / p. 30-39
<https://doi.org/10.1109/ICSTW55395.2022.00020> <https://arxiv.org/pdf/2201.11628.pdf>

Exploratory visual analytics : technical report of the NATO IST-141 Research Task Group

Varga, Margaret; Arkin, Ethem; Bivall, Petter; Camossi, Elena; Kullman, Kaur; Krilavičius, Tomas; Mandravickaitė, Justina; Lavigne, Valerie; Jayaram, Shivas; Panga, Marius; Liggett, Kristen; Martsinkevičius, Virginijus; Ray, Cyril; Winkelholz, Carsten; Acharya, Nikhil 2023 https://www.researchgate.net/publication/361220433_Exploratory_Visual_Analytics

Forecasting of absolute dynamic topography using deep learning algorithm with application to the Baltic Sea

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Computers & geosciences 2023 / art. 105406, 16 p. : ill <https://doi.org/10.1016/j.cageo.2023.105406> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Image-Based pavement type classification with convolutional neural networks

Riid, Andri; Manna, Davide Liberato; Astapov, Sergei INES 2020 : IEEE 24th International Conference on Intelligent Engineering Systems, July 8-10, 2020, Reykjavik, Iceland : proceedings 2020 / p. 55-60 : ill <https://doi.org/10.1109/INES49302.2020.9147199>

Instantaneous sea surface height prediction using satellite altimetry and deep learning

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium (LPS25) 2025
<https://lps25.esa.int/>

Kolmogorov-Arnold networks for algorithm design in battery energy storage system applications

Zequera, Rolando Antonio Gilbert; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants Energy Reports 2025 / p. 2664-2677
<https://doi.org/10.1016/j.egyr.2025.02.002>

Object detection for rescue operations by high-altitude infrared thermal imaging collected by unmanned aerial vehicles
Polukhin, Andrii; Gordienko, Yuri; **Jervan, Gert**; Stirenko, Sergii Pattern Recognition and Image Analysis : 11th Iberian Conference, IbPRIA 2023, Alicante, Spain, June 27–30, 2023 : proceedings 2023 / p. 490-504 https://doi.org/10.1007/978-3-031-36616-1_39
[Conference proceedings at Scopus](#) [Article at Scopus](#)

Real-time crack detection on concrete using non-destructive approaches based on Yolo series : Review
Bassir, David; Chang, Haochen; **Majak, Jüri** Advances in Machinery, Materials Science and Engineering Application X : Proceedings of the 10th International Conference (MMSE 2024), Paris, France, 27–28 July 2024 2024 / p. 820-826
<https://doi.org/10.3233/ATDE240712> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Reanalysis of ocean model-based dynamic topography utilizing deep neural network and geoid-referenced observations
Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p [Reanalysis of ocean model-based dynamic topography utilizing deep neural network and geoid-referenced observations](#)

Residential DC load forecasting using long short-term memory network (LSTM)
Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr; Jalakas, Tanel; Martins, Joao 2023 IEEE 11th International Conference on Smart Energy Grid Engineering (SEGE) 2023 / p. 131-136
<https://doi.org/10.1109/SEGE59172.2023.10274596>

Sea level forecasting using deep recurrent neural networks with high-resolution hydrodynamic model
Rajabi-Kiasari, Saeed; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Applied ocean research 2025 / art. 104496
<https://doi.org/10.1016/j.apor.2025.104496>

Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications
Metshein, Margus; Abdullayev, Anar; Gautier, Antoine; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; Annus, Paul; Land, Raul; Märten, Olev Sensors 2023 / art. 7111 <https://doi.org/10.3390/s23167111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural health monitoring on offshore jacket platforms using a novel ensemble deep learning model
Wang, Mengmeng; Incecik, Atilla; Tian, Zhe; Zhang, Mingyang; **Kujala, Pentti Jouko Sakari**; Gupta, Munish; Krolczyk, Grzegorz; Li, Zhixiong Ocean engineering 2024 / art. 117510 <https://doi.org/10.1016/j.oceaneng.2024.117510>

A survey on artificial intelligence approaches in supporting frontline workers and decision makers for the COVID-19 pandemic
Rasheed, Jawad; Jamil, Akhtar; **Draheim, Dirk** Chaos, solitons & fractals 2020 / art. 110337, 17 p
<https://doi.org/10.1016/j.chaos.2020.110337> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Toward automated utility pole condition monitoring : a deep learning approach
Ramlal, Craig J.; Singh, Arvind; Rocke, Sean; **Manninen, Henri; Kilter, Jako; Landsberg, Mart** Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 255–259 <https://doi.org/10.1109/ISGT-Europe47291.2020.9248797>

Triple fixed-point MAC unit for deep learning
Kerner, Madis; Tammemäe, Kalle; Raik, Jaan; Hollstein, Thomas Proceedings of the 2021 Design, Automation & Test in Europe (DATE 2021), 1-5 February 2021 : Virtual Conference 2021 / p. 1404-1407 <https://doi.org/10.23919/DATE51398.2021.9474020>

A two-stream context-aware ConvNet for pavement distress detection
Lõuk, Roland; Tepljakov, Aleksei; Riid, Andri 2020 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 2020 / p. 270-273 : ill <https://doi.org/10.1109/TSP49548.2020.9163538>