Pavlo RADIUK

Ph.D. in Computer Science

Senior Lecturer of Computer Science Department,
Khmelnytskyi National University

Personal information:

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Khmelnytskyi, Ukraine

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Research interests:

Artificial Intelligence,
Data Mining and Machine Learning,
Deep Learning,
Pattern recognition,
Image Processing and Computer Vision,
Medical Image Analysis

Experience:

- 2020-present day – Senior Lecturer of the Department of Information Technology, Khmelnytskyi National University, Khmelnytskyi, Ukraine
- 2018-2019 – Data Analyst, Non-governmental organization “ASTAR”, Khmelnytskyi, Ukraine
- 2016-2017 – Senior Laboratory Assistant, Khmelnytskyi National University, Khmelnytskyi, Ukraine

Educational background:

- 2017-2021 – Ph.D., Computer Science, Khmelnytskyi National University, Khmelnytskyi, Ukraine
- 2011-2017 – M.Sc., Mathematical and Computer Modeling, Khmelnytskyi National University, Khmelnytskyi, Ukraine

R&D projects:

- executor of three R&D projects commissioned by the MES of Ukraine, NAS of Ukraine, The Science and Technology Center in Ukraine (STCU).

Experience of scientific expertise:

- 2021-present – supervisor of bachelor and master students.

Editor/Reviewer of Scopus/WoS Journals:

- Journal of Intelligent and Fuzzy Systems (IOS Press), ISSN: 18758967 – Reviewer
- PLOS One (PLOS), ISSN: 1932-6203 – Reviewer
- Journal of Reliable Intelligent Environments (Springer), ISSN: 2199-4676 – Reviewer

Public profiles:

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Scopus ID	57216894492
Researcher ID	AAA-9727-2021
Google Scholar ID	Pavlo Radiuk
ResearchGate ID	Pavlo-Radiuk

Selected publications

1. **Radiuk P.M.** Impact of training set batch size on the performance of convolutional neural networks for diverse datasets. Information Technology and Management Science. 2017. Vol. 20, No 1. Pp. 20-24. DOI: https://doi.org/10.1515/itms-2017-0003
2. **Radiuk P.M.** Applying 3D U-Net architecture to the task of multi-organ segmentation in computed tomography. Applied Computer Systems. 2020. Vol. 25, No 1, Pp. 43-50. (**WoS, Q4**). DOI: https://doi.org/10.2478/acss-2020-0005
3. **Radiuk P.M.**, Hrypynska N.V. A framework for exploring and modeling neural architecture search methods. CEUR-WS. ISSN 1613-0073. 2020. Vol. 2604. Pp. 1060-1074. (**Scopus, Q4, WoS**). DOI: http://ceur-ws.org/Vol-2604/paper70.pdf
4. **Radiuk P.M.**, Kutucu H. Heuristic architecture search using network morphism for chest X-Ray classification. 2020. CEUR-WS. ISSN 1613-0073. 2020. Vol. 2623. Pp. 107-121. (**Scopus Q4, WoS**). DOI: http://ceur-ws.org/Vol-2623/paper11.pdf
5. Krak Iu., Barmak O., **Radiuk P.** Information technology for early diagnosis of pneumonia on individual radiographs. 2020. CEUR-WS. ISSN 1613-0073. 2020. Vol. 2753. Pp. 11-21. (**Scopus, Q4, WoS**). URL: http://ceurws.org/Vol-2753/paper3.pdf
6. Barmak O., **Radiuk P.** Web-based information technology for classifying and interpreting early pneumonia based on fine-tuned convolutional neural network. Computer systems and information technologies. 2021. Vol. 3, No 1. Pp. 12-18. DOI: https://doi.org/10.31891/CSIT-2021-3-2
7. **Radiuk P.**, Barmak O., Krak Iu. An approach to early diagnosis of pneumonia on individual radiographs based on the CNN information technology. The Open Bioinformatics Journal. 2021. Vol. 14, No 1. Pp. 93-107. (**Scopus, Q3**). DOI: https://doi.org/10.2174/1875036202114010093
8. Pavlova O., **Radiuk P.**, Kravchuk S., Kulbachnyi V. Information system for public places and institutions visualization with opportunities of inclusive access and optimal routing. Computer systems and information technologies. 2022. Vol. 1, No 6. Pp. 62-68. DOI: https://doi.org/10.31891/CSIT-2022-1-8
9. **Radiuk P.**, Kovalchuk O., Slobodzian V., Manziuk E., Barmak O., Krak Iu. Human-in-the-loop approach based on MRI and ECG for healthcare diagnosis. CEUR-WS, ISSN. 1613–0073. 2022. Vol. 3302. Pp. 9-20. (**Scopus, Q4, WoS**). URL: https://ceur-ws.org/Vol-3302/paper1.pdf
10. Krak I., Kuznetsov V., Kondratiuk S., Azarova L., Barmak O., **Radiuk P.** Analysis of deep learning methods in adaptation to the small data problem solving. In: Babichev, S., Lytvynenko, V. (eds) Lecture Notes in Data Engineering, Computational Intelligence, and Decision Making. ISDMCI-2022. Springer, Cham. 2023. Vol. 149. Pp. 333-352. (**Scopus, Q3**). DOI: https://doi.org/10.1007/978-3-031-16203-9_20