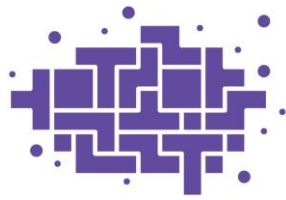


Projekta Izp-2018/2-0052 rezultāti

Ādas vēža agrīnas diagnostikas precizitātes uzlabošana ar neironu tīkliem

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. Bondarenko, A.; Chizhov, Y.; Uteshev, D.; Bliznuks, D.; Lihachev, A.; Lihacova, I. Use of machine learning approaches to improve non-invasive skin melanoma diagnostic method in spectral range 450 - 950nm. - Optics, Photonics and Digital Technologies for Imaging Applications VI, 2020, SPIE: Vol. 11353. <https://doi.org/10.1117/12.2541764>
2. Bolochko, K.; Bliznuks, D.; Uteshev, D.; Lihacova, I.; Lihachev, A.; Chizhov, Y.; Bondarenko, A. Towards to deep neural network application with limited training data: Synthesis of melanoma's diffuse reflectance spectral images. - Diffuse Optical Spectroscopy and Imaging VII, 2019, SPIE: Vol. 11074. <https://doi.org/10.1117/12.2527173>
3. Bolochko, K.; Bliznuks, D.; Uteshev, D.; Lihacova, I.; Lihachev, A.; Chizhov, Y.; Bondarenko, A. Towards to deep neural network application with limited training data: Synthesis of melanoma's diffuse reflectance spectral images. - European Conference on Biomedical Optics, ECBO_2019, Optica Publishing Group: Vol. Part F142-ECBO 2019, <https://doi.org/10.1117/12.2527173>
4. Bliznuks, D.; Cibulska, E.; Bondarenko, A.; Chizhov, Y.; Lihacova, I. Deep learning model deploying on embedded skin cancer diagnostic device. – Biophotonics, Riga 2020, SPIE: Vol. 11585. <https://doi.org/10.1117/12.2582108>
5. Bliznuks, D.; Chizhov, Y.; Bondarenko, A.; Uteshev, D.; Lihachev, A.; Lihacova, I. Identification of the most informative wavelengths for non-invasive melanoma diagnostics in spectral region from 450 to 950 nm. - 7th International Symposium on Optics and Biophotonics - Computations and Data Analysis: from Nanoscale Tools to Brain Functions, SFM 2019, 2020; SPIE: Vol. 11459. <https://doi.org/10.1117/12.2564382>
6. Lihacova, I.; Bondarenko, A.; Chizhov, Y.; Uteshev, D.; Bliznuks, D.; Kiss, N.; Lihachev, A. Multi-Class CNN for Classification of Multispectral and Autofluorescence Skin Lesion Clinical Images. - J. Clin. Med., 2022, 11 (10), <https://doi.org/10.3390/jcm11102833>
7. Bozsányi, S.; Varga, N. N.; Farkas, K.; Bánvölgyi, A.; Lőrincz, K.; Lihacova, I.; Lihachev, A.; Plorina, E. V.; Bartha, Á.; Jobbágy, A.; et al. Multispectral imaging algorithm predicts breslow thickness of melanoma. - J. Clin. Med., 2022, 11 (1), <https://doi.org/10.3390/jcm11010189>



FLPP

FUNDAMENTĀLO UN
LIETIŠĶO PĒTĪJUMU
PROJEKTI

8. Spigulis, J.; Kuzmina, I.; Lihacova, I.; Lukinsone, V.; Cugmas, B.; Grabovskis, A.; Kviesis-Kipge, E.; Lihachev, A. Biophotonics research in Riga: Recent projects and results. - Biophotonics - Riga 2020, SPIE: Vol. 11585. <https://doi.org/10.1117/12.2581799>