BIOSINF

Dissertation theses (2013 – 2022)

– Selection –

- "Forensic speaker recognition" (*Gheorghe Pop*, 2013).
- "Protection of computer networks when handling packet data" (*Cezara Florescu*, 2013).
- "Detection and recognition of license numbers from poor-quality images" (*Oriana-Elisabeta Păvăloaia*, 2013).
- "Dynamic signature recognition using neural networks" (*Loredana Matei*, 2014).
- "Advanced voice communication interface under the Android operating system" (*Teodora Nicolae*, 2014).
- "Speech-based caller identification. Application for call centers" (*Călin Necula*, 2014).
- "Analysis of compression levels for forgery detection in compressed JPEG images" (*Elena-Cristina Avram*, 2014).
- "Digital watermarking for biometric authentication" (*Ramona-Mihaela Cristea*, 2014).
- "Feature extraction algorithms for images classification" (*Andreea Griparis*, 2014).
- "Detecting spoofed regions in images" (*Adrian-Ştefan Ungureanu*, 2014).
- "Automatic learning of neural networks hyperparameters" (*Mihai Gaita*, 2015).
- "Methods for detecting pronounced syllables in natural conversation" (*Minodora-Daniela Peptine*, 2015).
- "Detection of non-verbal prosodic emotional expressions" (*Roxana-Mădălina Lexuţan*, 2015).
- "Method for controlling Internet congestion and delays" (*Maria-Iulia Stănoiu*, 2015).
- "Automatic home security and monitoring system" (*Georgeta Toader*, 2015).
- "Copyright protection of images using reversible watermarking techniques" (*Roxana Sandu*, 2016).
- "Intelligent system for facial features recognition" (*Liviu-Daniel Ştefan*, 2016).
- "Threats to Voice over IP services in a virtual environment" (*Dan-Mihai Matei*, 2016).
- "Android application for image authentication using digital watermarking techniques" (*George-Adrian Munteanu*, 2017).

- "Non-invasive heart rate detection using facial images acquired with a video camera" (*Oana-Alexandra Lepădatu*, 2017).
- "Reverberation analysis in the forensic expertise of audio recordings" (*Oana Precup*, 2018).
- "Detection methods of specific audio signals for embedded implementations with applications to prevent illegal forestry exploitations" (*Andrei Gaiță*, 2018).
- "Automatic speech recognition system in Romanian language based on deep neural networks" (*Alexandru-Lucian Georgescu*, 2018).
- "Virtual sound source behavior in real environment" (*Alexandra Drăghici*, 2019).
- "Traffic security systems for IoT devices" (*George-Cătălin Dumitru*, 2019).
- "User recognition using keystroke dynamics learning algorithms" (*Laurențiu-Iulian Iordache – Stoicescu*, 2019).
- "Differentiating radiation necrosis from tumor progression in brain metastases after radiation therapy" (*Simona-Ioana Juvină*, 2019).
- "Authentication system based on facial recognition" (*Adela Ariton*, 2019).
- "Automated cryptocurrency trading system based on Machine Learning algorithms" (*Radu Codreanu*, 2019).
- "Natural language processing using artificial intelligence: searching for words of interest and increasing intelligibility of speech transcripts" (*Cristian Manolache*, 2019).
- "Real-time gesture recognition system" (*Ana Antonia Neacșu*, 2019).
- "Separating speech segments from audio recordings using neural network models" (*Ioan-Alexandru Ivanov*, 2020).
- "Deep learning strategies for medical image reconstruction" (*Rebeca-Grațiela Predescu*, 2020).
- "Malicious file detection and analysis techniques" (*Silviu-Nicolae Argeşeanu*, 2020).
- "Automatic system for predicting the degree of pollution of moving vehicles using visual information" (*Marius-Elian Vană*, 2020).
- "Study of the detection, operation and protection of Web applications against malware attacks" (*Iuliana-Elena Olteanu*, 2020).
- "Applications of authentication and key distribution protocols in computer network security" (*Alexandru-Daniel Geanel*, 2021).
- "Android application for sign language detection using Machine Learning" (*Andreea-Roxana Vasile*, 2021).
- "Speaker recognition using convolutional neural networks" (*Sorin-Costinel Bărbulescu, 2021*).
- "Boat-drone interaction system based on neural network techniques" (*Ana-Maria Travediu*, 2022).