

IEEE INISTA 2021 PROGRAM

2021 IEEE International Conference on INnovations in Intelligent SysTems and Applications

August 25th, 2021			
	HALL-A	HALL-B	HALL-C
10.00-10.30	OPENING CEREMONY		
10.30-11.30	Keynote Speaker Bernard Jim JANSEN Science wants numbers about people: The numbers are likely wrong		
11.30-12.00	<i>Coffee Break</i>		
12.00-13.40	Session A-I: Applications of Machine Learning- I	Session B-I: Smart Cities & IoT - I	Session C-I: Computer Vision and Image Processing – I
13.40-14.00	<i>Coffee Break</i>		
14.00-15.40	Session A-II: Applications of Machine Learning - II	Session B-II: Intelligent Medical Applications – I	Session C-II: Natural Language Processing
15.40-16.00	<i>Coffee Break</i>		
16.00-17.00	Keynote Speaker Patrick Shen-Pei Wang Intelligent Pattern Recognition and Applications to Imaging and e-Forensics		

IEEE INISTA 2021 PROGRAM

August 26 th , 2021			
	HALL-A	HALL-B	HALL-C
10.00-11.40	Session A-III: Applications of Machine Learning - III	Session B-III: Smart Cities & IoT - II	Session C-III: Computer Vision and Image Processing – II
11.40-12.00	<i>Coffee Break</i>		
12.00-13.40	Session A-IV: Intelligent Medical Applications – II	Session B-IV: Intelligent Control Systems– I	Session C-IV: Text Mining
13.40-14.00	<i>Coffee Break</i>		
14.00-15.40	Session A-V: Hardware Implementations for Intelligent Systems	Session B-V: Genetic Algorithms and Optimization Techniques	Session C-V: Big Data & Cloud Computing
15.40-16.00	<i>Coffee Break</i>		
16.00-17.00	Keynote Speaker Melike Erol-Kantarci AI-Enabled Wireless Networks: A Bridge from 5G to 6G		

IEEE INISTA 2021 PROGRAM

August 27 th , 2021			
	HALL-A	HALL-B	HALL-C
10.00-11.40	Session A-VI: Applications of Machine Learning - IV	Session B-VI: Smart Cities & IoT - III	Session C-VI: Computer Vision and Image Processing – III
11.40-12.00	<i>Coffee Break</i>		
12.00-13.40	Session A-VII: Intelligent Medical Applications – III	Session B-VII: Intelligent Control Systems – II	Session C-VII: Text Summarization and Machine Translation
13.40-14.00	<i>Coffee Break</i>		
14.00-15.40	Session A-VIII: Intelligent Education	Session B-VIII: Intelligent Defense/Security Systems	Session C-VIII: Signal Processing
15.40-16.00	<i>Coffee Break</i>		
16.00-17.40	Session A-IX: Human Computer Interaction	Session B-IX: COVID-19	Session C-IX: Applications in Intelligent Systems
17.40-18.00	CLOSING CEREMONY		

IEEE INISTA 2021 PROGRAM

August 25th, 2021

10:00—10:30 Opening Ceremony

Keynote Speaker: Bernard Jim JANSEN

10:30—11:30 Science wants numbers about people: The numbers are likely wrong

Coffee break (11:30—12:00)

Session A-I: Applications of Machine Learning - I

August 25th, 2021 - 12:00-13:40

Chair: Assoc. Prof. Orhan ER

ID	Authors	Title
5	Hatice Vildan Dudukcu, Murat Taskiran and Zehra Gulru Cam Taskiran	Comprehensive Comparison of LSTM Variations for the Prediction of Chaotic Time Series
17	Rafat Ashraf Joy	Fine Tuning the Prediction of the Compressive Strength of Concrete: A Bayesian Optimization Based Approach
18	Alexandra Baicoianu and Andreea Mathe	Diagnose Bearing Failures with Machine Learning Models
29	Sashank Sridhar and Sowmya Sanagavarapu	Analysis and Prediction of Bitcoin Price using Bernoulli RBM-based Deep Belief Networks

Session B-I: Smart Cities & IoT - I

August 25th, 2021 - 12:00-13:40

Chair: Prof. Dr. İsmail Hakkı ALTAŞ

ID	Authors	Title
158	Ersoy Kelebekler	Monitoring and recording system of laboratory environmental conditions as ISO/IEC 17025 requirement
163	Barış Bulut, Hasan Burak Ketmen, Ali Serdar Atalay, Oğuzhan Herkiloğlu and Riku Salokangas	An Arrowhead and Mimosa Based IoT Framework with an Industrial Predictive Maintenance Application
168	Ceren Keskin and Mehmet Amaç Güvensan	Traffic Hyperparameters for Long-Term Traffic Forecasting
10	Gozde Yolcu Oztel	Vision-based Road Segmentation for Intelligent Vehicles using Deep Convolutional Neural Networks
20	Tri-Hai Nguyen, Luong Vuong Nguyen and Jason Jung	Cooperative Negotiation-based Traffic Control for Connected Vehicles at Signal-Free Intersection

IEEE INISTA 2021 PROGRAM

Session C-I: Computer Vision and Image Processing – I

August 25th, 2021 - 12:00-13:40

Chair: Asst. Prof. Ahmet Nusret TOPRAK

ID	Authors	Title
88	Atakan Kurt and Ishak Dolek	Ottoman OCR: Printed Naskh Font
136	Mert Çetinkaya and Tankut Acarman	Driver Activity Recognition Using Deep Learning and Human Pose Estimation
155	Lucia Georgiana Coca, Adrian Iftene and Tudor Manoleasa	Asphalt crack identification experiments using convolutional networks
162	Aslı Çelik, Ayhan Küçükmanisa Aydın Sümer, Aysun Taşyapı Çelebi and Oğuzhan Urhan	LCD Pixel Defect Detection using Shallow CNN Based Approach
116	Waqar Tanveer and Muhammad Habib Mahmood	Unsupervised Person Re-Identification based on Feature Learning of Deep Convolutional Generative Adversarial Network

Coffee break (13:40–14:00)

Session A-II: Applications of Machine Learning - II

August 25th, 2021 - 14:00-15:40

Chair: Prof. Dr. Mehmet Melih İNAL

ID	Authors	Title
36	Özgür Uğur, Ali Atilla Arısoy, Murat Can Ganiz and Berkay Bolaç	Descriptive and Prescriptive Analysis of Construction Site Incidents Using Decision Tree Classification and Association Rule Mining
177	Musaev Javokhir, Ngoc Thanh Nguyen and Dosam Hwang	Image channel as an input method for deep learning ensemble
19	Serhat Çolak and Keziban Orman	Aggregating Time Windows for Dynamic Network Extraction
208	Siham Akil, Sara Sekkate and Abdellah Adib	Feature selection based on machine learning for credit scoring: An evaluation of filter and embedded methods

Session B-II: Intelligent Medical Applications – I

August 25th, 2021 - 14:00-15:40

Chair: Prof. Dr. Oğuzhan URHAN

ID	Authors	Title
133	Abbas Memiş, Songül Varlı and Fuat Bilgili	Automatic Classification of the Waldenstrom Stages of Legg-Calve-Perthes Disease from the 2D Total Proximal Femur Shape Deformity
137	Fábio Santos, Filipe Silva and Petia Georgieva	Out of Training Distribution Detection for Multi-Class Skin Lesion Diagnosis
139	Ali Serener and Sertan Serte	Glaucoma classification via deep learning ensembles

IEEE INISTA 2021 PROGRAM

148	Coşku Öksüz, Oğuzhan Urhan and Mehmet Kemal Güllü	Ensemble-LungMaskNet: Automated Lung Segmentation using Ensembled Deep Encoders
57	Hedi Siamand Azat, Boran Sekeroglu and Kamil Dimililer	A Pre-study on the Layer Number Effect of Convolutional Neural Networks in Brain Tumor Classification

Session C-II: Natural Language Processing

August 25th, 2021 - 14:00-15:40

Chair: Assoc. Prof. Mehmet Fatih AMASYALI

ID	Authors	Title
13	Doğukan Arslan and Gülşen Eryiğit	Evaluation of Wizard-of-Oz and Self-Play Data Collection Techniques for Turkish Goal-Oriented Dialogue Agents
16	Merve Tunçer, Mehmet Fahri Bilici and Gülşen Eryiğit	Development of Goal-Oriented Dialogue Systems for Customer Services in Automotive Industry
81	Ons Meddeb, Mohsen Maraoui and Mounir Zrigui	Deep Learning based Semantic Approach for Arabic Textual Documents Recommendation
91	Adnen Mahmoud and Mounir Zrigui	Arabic Semantic Textual Similarity Identification based on Convolutional Gated Recurrent Units
151	Ahmet Bağcı and Mehmet Fatih Amasyalı	Comparison of Turkish Paraphrase Generation Models
22	Joni Salminen, Juan Corporan, Soon-Gyo Jung and Bernard Jansen	Taking Back Control of Social Media Feeds with Take Back Control

Coffee break (15:40—16:00)

Keynote Speaker: Patrick Shen-Pei Wang

16:00—17:00 Intelligent Pattern Recognition and Applications to Imaging and e-Forensics

IEEE INISTA 2021 PROGRAM

August 26th, 2021

Session A-III: Applications of Machine Learning - III

August 26th, 2021 - 10:00-11:40

Chair: Prof. Dr. Petia GEORGIEVA

ID	Authors	Title
113	Muskaan Beriwal and Sarvesh Agrawal	Techniques for Suicidal Ideation Prediction: A Qualitative Systematic Review
152	Mehmed Taha Aras and Mehmet Amaç Güvensan	Challenges and Key Points for Fraud Detection in Aviation
159	Fábio Santos, Filipe Silva and Petia Georgieva	Transfer Learning for Skin Lesion Classification using Convolutional Neural Networks
64	Temoor Muther, Fahad I. Syed, Amirmasoud K. Dahaghi and Shahin Neghabhan	Subsurface Physics Inspired Neural Network to Predict Shale Oil Recovery under the Influence of Rock and Fracture Properties

Session B-III: Smart Cities & IoT - II

August 26th, 2021 - 10:00-11:40

Chair: Asst. Prof. Erkan DURSUN

ID	Authors	Title
71	Sarah Younes, Manel Khelifi, Ahmed Alioua, Ismahane Souici	EKF-GPSR: An Extended Kalman Filter for Efficient Routing in Vehicular Networks
190	Ferhat Arat, Sercan Demirci	A Novel Objective Function for Frequency Switching Cost Aware RPL Algorithm
218	Mücahit Oturak, Erkan Dursun	A Cost-Effective IoT Based Smart Home Application
25	Rajasekaran S.	Senior Citizen Care Using Micro Expression Analysis on Live Elderly Video (MEA-LEV)
211	Manel Khelifi and Samira Moussaoui	ReLM: An Efficient Reinforcement Learning-Based Localization Algorithm for Mobile Wireless Sensor Networks

Session C-III: Computer Vision and Image Processing – II

August 26th, 2021 - 10:00-11:40

Chair: Prof. Dr. Mehmet Kemal GÜLLÜ

ID	Authors	Title
62	Ali Can Karaca, İbrahim Uçurmak, Mehmet Kemal Güllü	Efficient Resolution Enhancement of JPEG2000 Compressed Multispectral Images Using Deep Super-Resolution Methods
134	Mustafa Öztürk, Enver Çavuş	Vehicle Detection in Aerial Imaginary using a Miniature CNN Architecture

IEEE INISTA 2021 PROGRAM

146	Alperen Yılmaz, Gizem Nur Uzun, Mustafa Zahid Gürbüz and Oğuzhan Kıvrak	Detection and Breed Classification Of Cattle Using YOLO v4 Algorithm
161	Ercan Avsar	Effects of Image Preprocessing on the Performance of Convolutional Neural Networks for Pneumonia Detection
165	Görkem Gülmez, Kübra Cebbar, Seda Kul and Ahmet Sayar	A Framework for Using Contactless Technologies in Operating Rooms

Coffee break (11:40—12:00)

Session A-IV: Intelligent Medical Applications – II

August 26th, 2021 - 12:00-13:40

Chair: Assoc. Prof. Emre DANDIL

ID	Authors	Title
11	Hatice Vildan Dudukcu, Murat Taskiran and Tulay Yildirim	Consolidated or individual training: Which one is better for blood glucose prediction?
33	Bülent Bilgehan, Lara Kaye	Generalized Probability Distribution Function for Wireless Biomedical Sensors
50	Burcu Oltu, Büşra Kübra Karaca, Tansel Uyar and Didem Sakaryalı Uyar	Detection of Occlusal Plaque and Caries using Fuzzy C Means Based Segmentation Algorithm
70	Emre Dandil and Mehmet Süleyman Yıldırım	A Mask R-CNN based Approach for Automatic Lung Segmentation in Computed Tomography Scans

Session B-IV: Intelligent Control Systems– I

August 26th, 2021 - 12:00-13:40

Chair: Prof. Dr. Ayşegül UÇAR

ID	Authors	Title
32	Oğuzkağan Aliç and Ümmühan Başaran Filik	A Multi-objective Energy Management of Residential HVAC Loads
45	Cansu Cav, Aslinur Colak and Nilgun Fescioglu-Unver	Adaptive Traffic Signal Control to Reduce Delay Time at a Single Intersection Point
54	Yavuz Çapkan, Can Bülent Fidan and Halis Altun	Robotic Arm Guided by Deep Neural Networks and New Knowledge-Based Edge Detector for Pick and Place Applications
111	Erhan Akan, Erdem Akagündüz and İbrahim Baran Uslu	A Data Collection System Design for Hand Gestures
60	Mehmet Korkmaz	Human-Aware Dynamic Path Planning

IEEE INISTA 2021 PROGRAM

Session C-IV: Text Mining

August 26th, 2021 - 12:00-13:40

Chair: Asst. Prof. Zeynep Hilal KİLİMCİ

ID	Authors	Title
69	Gülsüm Yiğit and Mehmet Fatih Amasyali	Simple but effective GRU variants
154	Ciprian Gabriel Cusmuluc, Stefan Claudiu Susan, Bianca Demetra Chirica and Adrian Iftene	News identification metric for classification prefiltering
122	Zeynep Hilal Kilimci and Derya Othan	Stock Market Prediction with New Generation Deep Contextualized Word Representations and Deep Learning Models using User Sentiments
79	Nazrin Abbasli and Murat Can Ganiz	Log and Execution Trace Analytics System
160	Omar Ali, Alexander Gegov, Ella Haig and Rinat Khusainov	Light Syntax Parsing and Fuzzy Systems for Rhetorical Structure Theory Text Segmentation

Coffee break (13:40–14:00)

Session A-V: Hardware Implementations for Intelligent Systems

August 26th, 2021 - 14:00-15:40

Chair: Assoc. Prof. Anıl ÇELEBİ

ID	Authors	Title
63	Josphat Chege Njuguna, Emre Alabay, Anıl Çelebi, Aysun Taşyapı Çelebi and Mehmet Kemal Güllü	Field Programmable Gate Arrays Implementation of Two-Point Nonuniformity Correction and Bad Pixel Replacement Algorithms
138	Ahmet Basli, Cagrim Kahraman Bahar Ates and Anil Celebi	Field Programmable Gate Arrays Based Automotive Video Processing and Distribution System
149	Ayhan Caliskan, Guray Gurkan	Design and Realization of an Automatic Optical Inspection System for PCB Solder Joints
21	Tarek Belabed, Alexandre Quenon, Vitor Ramos Gomes da Silva, Carlos A. Valderrama Sakuyama and Chokri Souani	Full Python Interface Control: Auto Generation And Adaptation of Deep Neural Networks for Edge Computing and IoT Applications FPGA-Based Acceleration
174	Vuong Van Pham, Amirmasoud Kalantari Dahaghi, Shahin Negahban, William Fincham and Aydin Babakhani	Intelligent Approach in Smart Microchip Proppants Data Processing for Complex Hydraulic Fractures Diagnostic

IEEE INISTA 2021 PROGRAM

Session B-V: Genetic Algorithms and Optimization Techniques

August 26th, 2021 - 14:00-15:40

Chair: Prof. Dr. Mehmet YILDIRIM

ID	Authors	Title
61	Okkes Tolga Altinoz	Evolving model for synchronous weapon target assignment problem
68	Safa Yasin Müjdeci, Dima Alnahas, Mehmet Öcal, Nevcihan Duru and Bayram Tüccar	Hyperparameter Optimization for Black-Litterman Model via Genetic Algorithms
72	Selçuk Aslan and Sercan Demirci	Performance Investigation of Parallel Immune Plasma Algorithm
96	Niloufar Mehrabi and Elnaz Pashaei	Application of Horse Herd Optimization Algorithm for medical problems
129	Burak Tağtekin, Berkan Höke, Mert Kutay Sezer and Mahiye Uluyağmur Öztürk	FOGA: Flag Optimization with Genetic Algorithm
73	Sadat Duraki, Selçuk Aslan and Sercan Demirci	Performance Analysis of Immune Plasma Algorithm with Different Donor-Receiver Configurations

Session C-V: Big Data & Cloud Computing

August 26th, 2021 - 14:00-15:40

Chair: Prof. Dr. Ahmet SAYAR

ID	Authors	Title
35	Özlem Polat	Detection of Pediatric Pneumonia from X-Ray Images using ResNet50 and GAL Networks
114	Stella Dumenčić, Sebastian Tschauner, Franko Hržić and Ivan Štajduhar	Automatic extraction of multiple-study X-ray images
199	Meryem Uzun-Per, Ahmet Volkan Gürel, Ali Burak Can and Mehmet Aktas	An Approach to Recommendation Systems Using Scalable Association Mining Algorithms on Big Data Processing Platforms: A Case Study in Airline Industry
77	Hüseyin Fuat Alsan, Ekrem Yıldız, Ege Burak Safdil, Furkan Arslan and Taner Arsan	Multimodal Retrieval with Contrastive Pretraining
212	Sanghyun Lee, Bonghee Hong and Woochan Kim	A trajectory synthesis of free moving objects for continuous queries

Coffee break (15:40—16:00)

Keynote Speaker: Melike Erol-Kantarci

16:00—17:00 AI-Enabled Wireless Networks: A Bridge from 5G to 6G

IEEE INISTA 2021 PROGRAM

August 27th, 2021

Session A-VI: Applications of Machine Learning - IV

August 27th, 2021 - 10:00-11:40

Chair: Assoc. Prof. Mustafa SERT

ID	Authors	Title
184	Egemen Belge, Recep Fatih Cantekin, Berna Erol, Volkan Akgül, Seda Karadeniz Kartal, Rıfat Hacıoğlu, Kurtuluş Sedar Görmüş, Şenol Hakan Kutoğlu and Kemal Lelebicioğlu	Sensor Fusion Based on Integrated Navigation Data of Sea Surface Vehicle with Machine Learning Method
186	Fatih Karpat, Onur Can Kalay, Ahmet Emir Dirik, Oğuz Doğan, Burak Korcuklu and Celalettin Yüce	Convolutional Neural Networks Based Rolling Bearing Fault Classification Under Variable Operating Conditions
201	Sebastian Ciobanu	Fixed Representatives and Variable Features: From Regularized Deep Clustering to Classic Clustering
204	Ali Başer, Mustafa Sert	Permeability Estimation for Natural State Modeling of Geothermal Fields with Machine Learning

Session B-VI: Smart Cities & IoT - III

August 27th, 2021 - 10:00-11:40

Chair: Assoc. Prof. Hikmet Hakan GÜREL

ID	Authors	Title
107	Kadir Can Cetin, H. Irem Turkmen and M. Amac Guvensan	N-Gram Based Transport Mode Detection Models for Energy Constrained Devices
219	Masum Shah Junayed, Md Baharul Islam, Arezoo Sadeghzadeh and Tarkan Aydin	Real-Time YOLO-based Heterogeneous Front Vehicles Detection
28	Melih Yayla, Mustafa Diyar Demirkol and Saed Alqaraleh	CNN vs. LSTM for Turkish Text Classification
195	Mustafa Emre Yilmaz and Burcu Erkmen	Advanced Lane Line Detection Using Heterogeneous Embedded Computing
97	Ilgin Gokasar, Alperen Timurogullari	Real-Time Prediction of Traffic Density with Deep Learning Using Computer Vision and Traffic Event Information

IEEE INISTA 2021 PROGRAM

Session C-VI: Computer Vision and Image Processing – III

August 27th, 2021 - 10:00-11:40

Chair: Asst. Prof. Md Baharul ISLAM

ID	Authors	Title
217	Afsana Ahsan Jeny, Masum Shah Junayed, Md Baharul Islam, Hassan Imani and A. F. M. Shahen Shah	Machine Vision-based Expert System for Automated Cucumber Diseases Recognition and Classification
171	Peter Anthony, Betul Ay and Galip Aydin	A Review of Face Anti-spoofing Methods for Face Recognition Systems
181	Kemal Ünal Akdemir and Ersin Alaybeyoğlu	Classification of Red Mullet, Bluefish and Haddock Caught in the Black Sea by "Single Shot Multibox Detection"
202	Ali Alper Demir, İbrahim Özşeker and Ufuk Özkaya	Text Line Segmentation in Handwritten Documents with Generative Adversarial Networks
200	Vasileios Lagios, Isidoros Perikos, Foteini Grivokostopoulou and Ioannis Hatzilygeroudis	Handwritten Word Recognition using Deep Learning Methods

Coffee break (11:40—12:00)

Session A-VII: Intelligent Medical Applications – III

August 27th, 2021 - 12:00-13:40

Chair: Assoc. Prof. Süleyman EKEN

ID	Authors	Title
192	Bilge Yilmaz, Ercan Atagün, Fadime Öğülmüş Demircan and İbrahim Yücedağ	Classification of Pressure Ulcer Images with Logistic Regression
140	Sertan Serte and Ali Serener	Classification of COVID-19 and pleural effusion on chest radiographs using CNN fusion
153	Selim Erdem Çamlıoğlu, Sümeyya İlkin and Adnan Sondaş	Performance Analysis of the Lesion Area Clustering Process from Dermatological Images in Embedded Systems
119	Ramazan Terzi and Nuh Azgınoğlu	A Novel Pipeline on Medical Object Detection for Bias Reduction: Preliminary Study for Brain MRI

IEEE INISTA 2021 PROGRAM

Session B-VII: Intelligent Control Systems – II

August 27th, 2021 - 12:00-13:40

Chair: Asst. Prof. Khalid YAHYA

ID	Authors	Title
142	Mustafa Ayyıldız, Umut Tilki	Fault Tolerant Control of Wheeled Mobile Robots Using Adaptive Sliding Mode Controller
185	Alperen Ateş, Oğuzhan Coşan, Benu Değirmenci, Halit Ergezer and Mert Özgehan	Controller Design for Quadrotor-Slung Load System with Swing Angle Constraints Using Particle Swarm Optimization
2	Nevena Ranković, Dragica Ranković, Mirjana Ivanović and Ljubomir Lazić	Artificial Neural Network Architecture and Orthogonal Arrays in Estimation of Software Projects Efforts
31	Alexandra Vultureanu-Albiși and Costin Bădică	Recommender Systems: An Explainable AI Perspective

Session C-VII: Text Summarization and Machine Translation

August 27th, 2021 - 12:00-13:40

Chair: Prof. Dr. Banu DİRİ

ID	Authors	Title
89	Dino Aljević, Ljupčo Todorovski and Sanda Martinčić-Ipšić	Extractive Text Summarization Based on Selectivity Ranking
141	Khadidja Chettah and Amer Draa	A Discrete Differential Evolution Algorithm for Extractive Text Summarization
198	Furkan Goz, Fehmi Sener, Alev Mutlu, Kerem Kucuk and Mahir Temur	Learning to Rank for Text Summarization: Revisiting the Features and Methods for Turkish Bank Documents
76	Emre Şatır and Hasan Bulut	A Novel Hybrid Approach to Improve Neural Machine Translation Decoding using Phrase-Based Statistical Machine Translation
124	Azer Çelikten, Aybars Uğur and Hasan Bulut	Keyword Extraction from Biomedical Documents Using Deep Contextualized Embeddings
188	Daniel-Avram Pop and Adrian Sterca	Automatic summarization of New Testament exegesis texts

Coffee break (13:40–14:00)

IEEE INISTA 2021 PROGRAM

Session A-VIII: Intelligent Education

August 27th, 2021 - 14:00-15:40

Chair: Assoc. Prof. Halil YIĞİT

ID	Authors	Title
9	Alim Kerem Erdoğan and Uğur Yayan	Virtual Robotic Laboratory Compatible Mobile Robots for Education and Research
6	Diana Maria Montoya Quintero and Olga Lucia Larrea Serna	3D Application to find the Efficiency in Production Process
43	Soukaina Nai, Amal Rifai and Abdelalime Sadiq	Proposal of an IT system for a participatory strategy of the tutoring
92	Nisseb Bergaoui and Sonia Ayechi Ghannouchi	A new model for an agile adaptive learning process: A questionnaire for evaluating its added value

Session B-VIII: Intelligent Defense/Security Systems

August 27th, 2021 - 14:00-15:40

Chair: Assoc. Prof. Serdar SOLAK

ID	Authors	Title
98	Kübra Nilgün Karaca and Aydın Çetin	Botnet Attack Detection Using Convolutional Neural Networks in the IoT Environment
135	Ugur Erkan, Abdurrahim Toktas and Feyza Toktas	A Novel Euler Chaotic Map for Image Encryption
15	Özlem Altınay and Berna Örs	Instruction Extension of RV32I and GCC Back End for Ascon Lightweight Cryptography Algorithm
49	Canan Batur Şahin	Improving Software Vulnerability Detection Using Dendritic Cell Algorithm based on Clock-Work Recurrent Neural Network

Session C-VIII: Signal Processing

August 27th, 2021 - 14:00-15:40

Chair: Assoc. Prof. Bülent BOLAT

ID	Authors	Title
203	Ercan Coşgun, Anıl Çelebi and M.Kemal Güllü	A Channel Selection Method for Epilepsy Seizure Prediction
178	Kiril Alexiev and Hristina Topalova	ECG pulse train analysis
147	Safa Chebbi, Sara Sekkate, Sofia Ben Jebara and Abdellah Adib	On the use of MFCC and SWT-based features for offensive speech detection in social media
179	Cansu Özkan and Kaya Oguz	Selecting Emotion Specific Speech Features to Distinguish One Emotion from Others
187	Hasan Zan, Abdulnasır Yıldız	Sleep Arousal Detection Using One Dimensional Local Binary Pattern-Based Convolutional Neural Network

IEEE INISTA 2021 PROGRAM

Coffee break (15:40—16:00)

Session A-IX: Human Computer Interaction

August 27th, 2021 - 16:00-17:40

Chair: Assoc. Prof. Nihan KAHRAMAN

ID	Authors	Title
144	Caner Gezgez and Elif Kaçar	Virtual Character Control by Brain-Computer Interface and Comparison of Performance Metrics
207	Mouad Riyad, Mohammed Khalil and Abdellah Adib	Hyperparameter Bayesian Optimization applied to ConvNets for Motor Imagery tasks
34	Awf Abd and Muhammet Baykara	Feature Extraction Approach Based on Statistical Methods and Wavelet Packet Decomposition for Emotion Recognition using EEG Signals
206	Lahcen El Bouny, Mohammed Khalil and Abdellah Adib	Convolutional Denoising Auto-Encoder Based AWGN Removal from ECG Signal
215	Tuba Saltürk, Nihan Kahraman	Effects of Environmental Factors on EEG Based Biometric Recognition

Session B-IX: COVID-19

August 27th, 2021 - 16:00-17:40

Chair: Assoc. Prof. Kamil DİMİLİLER

ID	Authors	Title
7	Tatjana Zec, Aleksandar Kartelj, Marko Djukanovic, Milana Grbic and Dragan Matic	Statistical analysis of correlation between weather parameters and new COVID-19 cases: a case study of Bosnia and Herzegovina
12	Ehsan Nasiri, Mariofanna Milanova and Ardalan Nasiri	Surveillance Framework Based on Real-Time Face Mask Detection and Recognition
53	Faton Kabashi, Halil Snopçe, Lejla Abazi-Bexheti and Lamir Shkurti	The Cases of Coronavirus in Prizren Region
58	Kamil Dimililer and Boran Sekeroglu	The Effect of Discrete Cosine Transform on COVID-19 Differentiation from Chest X-Ray Images: A Preliminary Study
75	Devrim Kayali, Kamil Dimililer and Boran Sekeroglu	Face Mask Detection and Classification for COVID-19 using Deep Learning

IEEE INISTA 2021 PROGRAM

Session C-IX: Applications in Intelligent Systems

August 27th, 2021 - 16:00-17:40

Chair: Asst. Prof. Mustafa Hikmet Bilgehan UÇAR

ID	Authors	Title
166	Tayyip Mert Denizgez, Orçun Kamiloğlu, Seda Kul and Ahmet Sayar	Guiding Visually Impaired People to Find an Object by Using Image to Speech over the Smart Phone Cameras
118	Traian Lavric, Emmanuel Bricard, Marius Preda and Titus Zaharia	Exploring Low Assistance Visual Assets for Conveying Assembly Instructions in AR
86	Azeem Shera, M.Waseem Iqbal, Muhammad Raza Naqvi, M.Hasnain Sajjad, Abdul Rehman Shafqat and M.Mohsin Saeed	Usability Evaluation of Blind and Visually Impaired Interface in Solving the Accessibility Problems
157	Janielle Antiporta, Carlo Coste, John Carlos Garro, Ariane Grace Hernandez, Mariela Pasamba and Roselito Tolentino	Recognizing Threat through Object and Gesture Recognition by Applying Convolutional Neural Network and Adaptive Boosting Algorithm Using Microsoft Kinect for Xbox One

17:40—18:00 Closing Ceremony