



8TH
INTERNATIONAL
ADVANCED TECHNOLOGIES
SYMPOSIUM

COMPUTER SCIENCES

19.10.2017 THURSDAY/PERŞEMBE

COMPUTER SCIENCES

HALL-E		HALL-J	
ID No	ARTICLE TITLE		ARTICLE TITLE
CHAIR	Prof. Dr. Asaf VAROL	CHAIR	Assoc. Prof. Dr. Murat KARABATAK
13.30-14.00	Invited Speaker Prof. Dr. Kemal LEBLEBİCİOĞLU	684	Detecting Vehicle in Videos Recorded by Security Systems Hakan Yılmaz, E.Ekmele Sulak, Emrah Özkaynak*
		55	Hybrid Approach on Airline Companies Tuğba Kaya*
14.00-14.15	633 Application and Performance Analysis of Maze Construction Based on Union/Find Data Structure Serkan Peldek*, Abdulkadir Karacı	747	Student Placement System According To Special Ability Score Timuçin Çot*, İbrahim Okumuş
14.15-14.30	604 Forecasting Mixer Rates of Steel Fiber Concrete Using Fuzzy Logic Ebru Ayyıldız*, Mustafa Ulas, Merve Acikgenc Ulas	755	Alphabet teaching mobile game Abdullah Bal*
14.30-14.45	139 Local Receptive Fields based Extreme Learning Machine for Face Recognition Aras Ismael*, Abdulkadir Şengür, Yaman Akbulut	757	Development of a Novel Tracking and Control Software For Electronic Device Testing and Analysis Purposes Yasir Karadeniz, Haluk Küçük*
14.45-15.00	170 Age Group Estimation Based On Speech Signals Abdulhalık Oğuz*, Yılmaz Kaya	826	A Hybrid Feature Optimization Method for Image Analysis Based on Genetic Search Strategies Özal Yıldırım*, Ulas B Baloglu
15.00-15.20	COFFEE BREAK		COFFEE BREAK
CHAIR	Prof. Dr. Engin AVCI	CHAIR	Assoc. Prof. Dr. Murat KARABATAK
15.20-15.35	732 Evaluation of Technical Factors in E-Learning regarding to Open Source LMS. Payman Hasan, Asaf Varol*	827	Evolutionary Multi-Class Community Detection Method for Texture Image Similarity Ulas B Baloglu*, Özal Yıldırım, Yakup Demir
15.35-15.50	962 Digital Divide Pınar Erten*	838	Chat On Images At All Web Sites Ali Evren Göksungur*
15.50-16.05	174 Usage and Performance Analysis of Open Source Software for Network Traffic Management İsmail Arık*, Murat Doğan, Mustafa Coşar	848	Facial Expression Recognition Via PCA and Random Forests Funda Akar*, Ahmet Baran, Eyyüp Yıldız



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16.05-16.20	175	Usage and Performance Analysis of ORM Tools in Software Development Process Murat Doğan*, Mustafa Coşar, İsmail Arık	849	Smart Stock Control System Ali Evren Göksungur*
16.20-16.35	183	Online Performance Tracking C. Ardil*, S. Bilgen	852	Sequence Classification Based on Information Gain Feature Groups Using Ensemble Gene Selection Framework Canan Batur*, Banu Diri
16.35-16.50	40	Off: A Methodology for the Evaluation of Massive Multiplayer Online Role- Playing Games Mi Yang*, Yifan Wu, Nukiyama Tanasawa	868	Implementation of Trivium algorithm on FPGA Dilan Bakır*, Muzaffer Aşkın, Özal Yıldırım; Ali Murat Garipcan, Bilgin Zengin
16.50-17.05	1172	Pre-diagnosis of Diseases Using Genetic Algorithms Ugur Kilic; Kubilay Ayturan*; Mehmet Tahir Güllüoğlu	972	Comparison of Interest Point-Based Features in Object Recognition Applications Funda Akar*, Yıldız Aydın
20.10.2017 FRIDAY/CUMA				
	HALL-E			HALL-J
CHAIR	Prof. Dr. Engin AVCI		CHAIR	Assoc. Prof. Dr. Erkan TANYILDIZI
08.30-08.45	647	Implementation and Evaluation of Robot Hand Control with Wearable Gloves Abdulkadir Karacı, Serkan Peldek*, Mustafa Erdemir	880	Forecasting of Aircraft Traffic Density by Support Vector Machine and Linear Regression Analyze Methods Suat Toraman*, Ömer Osman Dursun
08.45-09.00	262	Hareket tanıma için yeni bir öznelik çıkarım yöntemi Bahar Yavuz*, Yılmaz Kaya	883	Comparison of Feature Extraction Methods in Image Classification Pınar Karakus*, Osman Orhan, Hasan Bilgehan Makineci
09.00-09.15	263	Multilayer Local Binary Patterns for Grape types Detection Burhan Özdemir*, Yılmaz Kaya	896	An SVM based 3D Facial Expression Analysis System using Distance Based Features Ö. F. Söylemez*, B. Ergen, N. H. Söylemez
09.15-09.30	272	Texture Image Matching using Best-Buddies Similarity Z. Çetin*, E. Tanyıldızı	646	Survival Analysis of Gastric Cancer Patients by Pattern Recognition Techniques Rukiye Karakış*, Salih Burak Gündoğdu, Mesut Tez, İnan Güler
09.30-09.45	926	Virtual Hair Production and Hair Simulation with Position Based Dynamics Kali Gürkahraman*, Ahmet Fırat Yelkuvan, Şenol Karakurt	915	Gerçek Zamanlı Elde Edilen Derinlik Görüntülerinin İyileştirilmesi Hakan Yüksel*, Serkan Aydın
09.45-10.00	648	Image Steganography Tool for Different Image Types	919	Architectural Presentation Application with Virtual Reality



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		Rukiye Karakiş*, İnan Güler			Abdullah Bal*
10.00-10.20	COFFEE BREAK			COFFEE BREAK	
CHAIR	Prof. Dr. Abdulkadir ŞENGÜR			CHAIR	Prof. Dr. Sami EKİCİ
10.20-10.35	310	Crew Scheduling Optimization with Artificial Bee Colony Algorithm Melike Sardoğan*, Adem Tuncer	934	Comparison of Machine Learning Algorithms Used for Text Independent Speaker Recognition Yasemin SARI*, Umit Atila	
10.35-10.50	945	Relay Mechanism with Three-way Handshake for Wireless Sensor Networks Musa Çıbuk*, Davut Arı, Fikri Ağgün	953	Amount of Airworthiness Time Estimation using TDNN Model in Time Series A. Tatlı*, S. Kahvecioğlu	
10.50-11.05	326	Preliminary Assessment Using Artificial Neural Network Beyza Nur Akilotu*, Seda Arslan Tuncer, Engin Avcı	333	Implementation of Multi-verse Optimization Algorithm in Knapsack Problems Okan Yıldırım*, Erkan Tanyıldızı	
11.05-11.20	328	Comparative Classification Of The Support Vector Machines And Decision Trees In Multi-Class Data Yeliz Genç*, Seda Arslan Tuncer, Engin Avcı	531	Volatile Memory Analysis Tools For Voip Forensic Applications: A Classification Study H. Alsaadawi*, A. Varol	
11.20-11.35	332	Implementation of Human Learning Optimization Algorithm in Benchmark Functions Okan Yıldırım*, Erkan Tanyıldızı	1162	Image encryption using Eureka to generate an automated mathematical key Halima Abdul Halime*, David J. Mulvaney	
11.35-11.50	342	Runner Root Algorithms with Chaotic Mapping Tuncay Cıgal*, Erkan Tanyıldızı	942	Network Joining Algorithm with a New Relay Mechanism for Vehicle Networks Musa Çıbuk*, Davut Arı, Fikri Ağgün	
11.50-13.30	LUNCH BREAK			LUNCH BREAK	
CHAIR	Asst. Prof. Dr. Ayтуğ BOYACI			CHAIR	Prof. Dr. Engin AVCI
13.30-13.45	361	Optical Networks Switching Methods and Energy Consumption Zuleyha Yiner, Merve Kanmaz*, Muhammed A. Aydın	1201	Yüz İfade Analizi İçin Inception Mimarisiyle Gerçekleştirilen Bir Derin Öğrenme Uygulaması Ö.F. Söylemez*, V. Tümen, N.H. Söylemez, B. Ergen	
13.45-14.00	398	FMEA Analysis in a Student Laboratory Zehra Gülten Altın*, Barış Şimşek, Mustafa Dağ	1149	Comparison of Commonly Used Tools in Big Data Processing Barış Karabay*, Mustafa Ulas	
14.00-14.15	1183	An Investigation on Speech Recognition from Biometric Data in Digital Forensics S. Dogan*, E. Akbal, T. Tuncer, F. Gunes	1015	Investigation of the Impact on Speed Violations of Vehicular Types in Urban / Highway Traffic According to the Region Using Naive Bayes	



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				Berat Karabulut, Özgür Karaduman*, Engin Avcı
14.15-14.30	433	A Comparison Study of Apriori, Eclat, FP-Growth and Max-Miner Itemset Mining Algorithms in terms of Dataset Characteristics Elife Öztürk*, Serap Şahin	1016	Investigation of Using the LSA Model with Similarity Metrics for Semantic-Based Web Document Clustering Mashhood Ali*, Aytug Boyaci, Mustafa Ulas
14.30-14.45	435	Automatic Gender Identification from Speech Sami Ekici*, Yaman Akbulut, Abdulkadir Şengür	1044	Game Character Actions Detection from Atari Environment Using With CNNs Yusuf Çelik*, Özal Yıldırım, Murat Karabatak
14.45-15.00	533	The Effect of Filtering on Image Processing of Textile Fabrics Umut Sahin, Senem Kursun Bahadır*	102	Establishment of Physical Therapy Platform with Kinect Evren ÖZTÜRK*, Erkan DUMAN
15.00-15.20	COFFEE BREAK		COFFEE BREAK	
CHAIR	Prof. Dr. Kemal LEBLEBİCİOĞLU		CHAIR	Prof. Dr. Engin AVCI
15.20-15.35	545	Video Analysis of Morris Water Maze Experiments Semih Yavuzkılıç*, Abdulkadir Şengür, Zafer Çambay, İrfan emre	570	Digital Forensics Approaches in Mobile Devices by Operating Systems Fatma Güneş Eriş*, Erhan Akbal, Sengul Dogan
15.35-15.50	551	Finding of Microaneurysms for Early Detection of Diabetic Retinopathy by Image Processing Volkan Ağaoğlu*, Erkan Tanyıldızı	1159	Estimation of Equivalent Circuit Parameters For PMSM Hüseyin Yüce Kürüm*, Erhan Akın*
15.50-16.05	556	Comparison Of Software Development Process Models Gürkan Gürgüze*, Resul DAŞ, İbrahim Türkoğlu	1135	A Prevention Model for APT Attacks During Application Lifecycle Yunus Korkmaz; Aytug Boyaci*
16.05-16.20	569	Classification Of Satellite Images By Deep Learning Ferdi Doğan*, İbrahim Türkoğlu	671	Brain – Computer Interface Systems Nevzat Olgun*, İbrahim Türkoğlu
16.20-16.35	571	Optimization of the Traffic Lights Based on Density of Vehicles Ercüment Öztürk*, F. Baturalp Günay, Tuğrul Çavdar	1090	Dynamic Road Selection using the k-Nearest Neighbor in Urban Traffic İsmail Gövercin; Özgür Karaduman*; Engin Avcı
16.35-16.50	572	Network Slicing on 5G Mobile Networks: A Review, Research Issues and Challenges M. Talha Kakız, Ercüment Öztürk*, Tuğrul Çavdar	1131	A Novel Clustering Approach Based on Firefly Algorithm Hakan Altunay*; Abdulkadir Şengür



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21.10.2017 SATURDAY/CUMARTESİ

HALL-E		HALL-J			
CHAIR	Asst. Prof. Dr. Aytuğ BOYACI		CHAIR	Asst. Prof. Dr. Mustafa ULAŞ	
08.30-08.45	574	Examination of RFID Security Vulnerabilities and Precautions to be Taken in Usage Areas M. Eriş*, M. Kaya	1045	A CNN Model for Industrial Product Quality Assessment: Pistachio Application Murat Serdar Akkuş*, Yusuf Çelik, Özal Yıldırım	
08.45-09.00	582	Route Determination for Fire Evacuation Based on Artificial Bee Colony Algorithm Buse Bekar*, Ümmet Ocak, Tuğrul Çavdar	1048	A Reliable and Energy-Efficient Routing Protocol for Wireless Sensor Networks in Large Scale Ramin Mohammadi, Sedat Akleyek*, Hakan Kutucu, Serap Karagöl	
09.00-09.15	166	A Survey of Cyber Security Vulnerabilities and Security Methods on Big Data Murat Koca*, Muhammet Aydın	1132	Evaluation of Audio Analysis Tools in Terms of Digital Forensics Yunus Korkmaz*, Aytug Boyaci	
09.15-09.30	1144	Statistics based Cryptanalytic by Artificial Bee Colony Algorithm Arkan kh shakr. Sabonchi*, Bahriye Akay	1060	Design and Implementation of a Wireless Mobile Fingerprint Recognition Module Y. Tatar, Ö. Kayret, A. Karaköse, G. Yıldırım	
09.30-09.45	1161	A New 4D Chaotic System with Single Parameter and Its RNG Application Abdullah Sevin*, Sezgin Kacar, Ünal Çavuşoğlu, Cüneyt Bayılmış	1090	Dynamic Road Selection using the k-Nearest Neighbor in Urban Traffic İsmail Gövercin, Özgür Karaduman*, Engin Avcı	
09.45-10.00	129	A Survey of Optical Networks Vulnerabilities and Solutions İsa Avcı*, Murat Koca*, Zerrin Yıldız Çavdar, Muhammet Aydın	611	Designing an Early Warning System for Avalanches Using Wireless Sensor Networks F. B. Günay*, M. T. Kakiz, T. Çavdar	
10.00-10.20	COFFEE BREAK		COFFEE BREAK		
CHAIR	Prof. Dr. Engin AVCI		CHAIR	Prof. Dr. Kemal LEBLEBİCİOĞLU	
10.20-10.35	612	Designing Moving Leds to Save Energy Using Wireless Sensor Networks Faruk Günay*, Ercüment Öztürk, Tuğrul Çavdar	137	Investigation of the Digital Forensic Educational Practices in the World, Making their Comparisons and Application Proposal Offer For Turkey Şükrü Elveren*, Çelebi Uluyol	
10.35-10.50	238	Weber's Law based Fragile Image Watermarking Method in Integer Wavelet Transform Türker Tuncer, Fatih Özyurt*, Engin Avcı	441	Detection of Copy-Move Forgery Using Local Intensity Order Pattern Şeyma Yücel Altay*, Güzin Ulutaş	



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10.50-11.05	1160	Performance Evaluation of Frequency Hopping Mechanism on ZigBee-based Networks Abdullah Sevin* , Ünal Çavuşoğlu , Sezgin Kacar , Cüneyt Bayılmış	683	Implementation of Speaker Recognition Using Support Vector Machines for Security Systems Emrah Özkaynak* , E.Ekmele Sulak , Hakan Yılmaz
11.05-11.20	273	Leaf Recognition using Template Matching Techniques Z. Çetin* , E. Tanyıldızı	1105	Karar Ağaçları ile Zararlı Yazılımların Winapi Tabanlı Tespiti Yusuf Çelik* , Ahmet Arslan Demirci , Murat Karabatak , Engin Avcı
11.20-11.35	1206	Example of Log Analysis with Apache Spark Barış Karabay* , Mustafa Ulas	911	DWT based Robust Perceptual Hash Function Fatih Özyurt* , Türker Tuncer , Engin Avcı
11.35-11.50	1228	A New Expert Hepatitis Diagnosis System Derya Avcı		