

## II. INTERNATIONAL INFORMATICS & SOFTWARE ENGINEERING CONFERENCE 17.12.2021 PROGRAM (UBYMK'21)

TIME	VIRTUAL ROOM-1 Zoom Link		VIRTUAL ROOM-2 Zoom Link		BTK SMALL CONFERENCE ROOM GROUND FLOOR & VIRTUAL ROOM-3 Zoom Link	
	<a href="https://zoom.us/j/93718810141?pwd=S09ZVHlCWmEyMEU4SmVaaVNVdFN3UT09">https://zoom.us/j/93718810141?pwd=S09ZVHlCWmEyMEU4SmVaaVNVdFN3UT09</a>		<a href="https://zoom.us/j/95966608843">https://zoom.us/j/95966608843</a>		<a href="https://zoom.us/j/94106302865?pwd=WGpBUGkzWXgxWGl2L2xTa2ptMGpQT09">https://zoom.us/j/94106302865?pwd=WGpBUGkzWXgxWGl2L2xTa2ptMGpQT09</a>	
	Passcode: 777665		Passcode: 012231		Passcode: 025143	
09:30-10:00					Conference Opening	
					Assoc. Prof. Dr. Meltem Eryilmaz (Co-chair and TBD) Prof. Dr. Asaf VAROL (Co-chair) / Prof. Dr. Ali YAZICI (Co-chair)	
	Online presentations		Online presentations		Face-to-face/Online presentations	
10:00-11:30	Session-1 AI-MACHINE LEARNING		Session-5 SOFTWARE ENGINEERING		Session-9 CS-IT-SOFTWARE	
	CHAIR: Assoc.Prof.Dr. Meltem Eryilmaz	Title	CHAIR: Dr. Damla Topalli	Title	CHAIR: Prof. Dr. Ali Yazıcı	Title
	Güneş Gürsoy and Asaf Varol	Risks of Digital Transformation: Review of Machine Learning Algorithms in Credit Card Fraud Detection (25)	Layth Nabeel Al-Rawi, Osama Ibraheem Ashour and Abdulrahman Zeain	Survey on Interface Usability Evaluation for Oil and Gas Critical Control Systems (23)	İ. İlker Tabak, Ahmet Pekel, Koray Özer, Eymen Görgülü and Tuncer Ören	Meticulous Use of Turkish Informatics Terms to Deter Defective Turkish (50)
	Batuhan İşiker and Ibrahim Soğukpınar	Machine Learning Based Web Application Firewall (57)	Layth Nabeel Al-Rawi	Understanding The Relation Between Systems Usability and End Users' Performance (24)	Yahya Kemal Altınok, Harun Artuner and Aylin Hatlıp İpek	Verification and Verification Methods Selection Based on Goal-Oriented Categorization for Simulations (76)
	Mohammad Abu Tareq Rony, Md. Mehedi Hassan, Eshtiak Ahmed, Asif Karim, Sami Azam and D. S. A. Aashiqur Reza	A Machine Learning Approach to Find Customers For Long Term Deposit Recommendation (47)	Anil Cetinkaya, Aliye Kartal Doğan, Erkan Danacı and Halit Oğuztüzün	AUTORFPOWER: Automatic RF Power Measurement Software for Metrological Applications (30)	Seyed Mohammadbagher Jafari and Shahrzad Dinarvand	Software Development Methodologies Evaluation: The importance of Social and Technical Criteria (22)
	Okkes Erdem Tekerek and Adem Tekerek	Fractional Fourier Transform, Image Encryption Using Lorenz's Attractor (45)	Mazharul Islam, Rajib Imran and Shazzad Hosain	The Evaluation of Enterprise Resource Planning using ISO 25010 Based Quality Model (60)	Umer Andrabi and Sergey Stepanov	The model of conjoint servicing of real time traffic of surveillance cameras and elastic traffic of NB-IoT devices with access control (17)
	Dinuwan Bhagya, Devindi Diddugoda, Suranga Mahesh and Lokesh Weerasinghe	Early Detection of Breast Cancer and Classification of Mammography Images Using Machine Learning (18)	Muhammad Raheel Raza and Asaf Varol	Digital Currency Price Analysis Via Deep Forecasting Approaches (62)	Elif Nur Haner and Tülin Ergelebi Ayyıldız	Analysis of Lack of Cohesion in Methods (LCOM): A Case Study (55)
	Githma Amarasinghe, Chamath Lakshan, Thilini Dureksha, Suneth Piniidiya, Samantha Thelijjagoda and Jenny Krishara	Healthy Heart - Suggest Meal, Stress Release, Exercise Scheduling plans by using Heart Risk Prediction (42)				
11:30-11:45	Coffee Break					
11:45-13:15	Session-2 AI-MACHINE LEARNING		Session-6 IT		Session-10 MEDICAL INFORMATICS-AI	
	CHAIR: Dr. Emre Olca	Title	CHAIR: Dr. Zühal Kurt	Title	CHAIR: Prof.Dr. Murat Paşa Uysal	Title
	Rakibul Islam, Abhijith Reddy Beeravolu, Md. Al Habib Islam, Asif Karim, Sami Azam and Sanzida Akter Mukti	A Performance Based Study on Deep Learning Algorithms in the Efficient Prediction of Heart Disease (63)	Rasha Jasim Habeeb Habeeb, Shadi M S Hilles and Alaa M Momani	Social Commerce Adoption Based UTAUT Model for Consumer Behavior: Iraq Small and Medium Enterprise (6)	Syed Attique Shah, Sadok Ben Yahia, Keegan McBride, Akhtar Jamil and Dirk Draheim	Twitter Streaming Data Analytics for Disaster Alerts (31)
	Mohsin Sarker Raihan, Eshtiak Ahmed, Asif Karim, Sami Azam, Laboni Akter and Mehedi Hassan, M. Raihan	Chronic Renal Disease Prediction using Clinical Data and Different Machine Learning Techniques (64)	Zühal Kurt, Ahmet Keskin, Gökhan Kocaova, Levent Boynukisa and Okan Can Ülgen	Development of 'SeniorHouse' Application for Online Education (48)	Ahmet Yapıcı and M. Ali Akcayol	A Review of Image Denoising With Deep Learning (33)
	Gülcan Yıldız and Bekir Dizdaroğlu	Convolutional Neural Network for Traffic Sign Recognition based on Color Space (72)	Rahime Yilmaz and Feza Buzluca	A Fuzzy Model to Measure the Maintainability Of Microservice Architectures (61)	Devran Yener, Tansel Özyer and Emin Kuğu	Analysis and Comparison of HoneyPot Activities on Two ISP Networks (54)
	Haarini Sittampalam, Nitharshana Mahenthiran, Sinthumai Yogarajah and Sathurshana Jeyarajah	EPEST - Smart Pest Management: An Augmented Reality-Based Approach for An Organic Cultivation (68)	Ishan Peiris, Ravindu Gunathilake, Eranda Attanayake, Dimuthu Ilankoon, Dinuka Wijendra and Sanjeevi Chandrasiri	Digital Democracy: A Secure Platform for Voting (69)	Hamayoun Shahwani, Muhammad Umar, Jawad Yousaf and Nokhaiz Tariq Khan	Data Dissemination through Smart Traffic Lights for Accident Prevention (29)
	Metin Yilmaz, Ahmet Yazıcı and Eyüp Çınar	RDF-Based Semantic Condition Monitoring for Autonomous Mobile Robot (59)	Berkan Keskin, Necmettin Ozkan, Kübra Nur Bulut, Mehmet Şahin Gök and Gökhan Özer	Domesticating a Treasury Shadow IT Application in a Turkish Bank (32)	Heshani Kadurugoda, Geethan Perera, Nethun Madanayake, Kasun Devaka, Suranjini Silva and Pradeep Abeygunawardhna	Disease Diagnosis by Nadi Analysis Using Traditional Ayurvedic Methods With Portable Nadi Pariksha Device & Web Application (56)
13:15-14:00	Lunch Break					

<b>14:00-15:30</b>	<b>Session-3 AI-DEEP LEARNING</b>		<b>Session-7 BLOCKCHAIN-NETWORK</b>		<b>Session-11 IoT-NETWORK</b>	
	<b>CHAIR: Assoc.Prof.Dr. Murat Özbayoğlu</b>	<b>Title</b>	<b>CHAIR: Prof. Dr. Murat Erten</b>	<b>Title</b>	<b>CHAIR: Dr. Erhan Gökçay</b>	<b>Title</b>
	<b>Auwal Yunusa</b> and Cafer Bal	Plate Number Recognition Using Segmented Method with Artificial Neural Network (9)	<b>Amir Reza Asadi</b>	Cognitive Ledger Project: Towards Building Personal Digital Twins through Cognitive Blockchain (5)	Muhammad Imran Ghafoor, <b>Sibghat Ullah</b> , Muhammad Sohaib Roomi and Mubashar Aqeel	The Real High Performance Environments Grid and the Jungle using KVM (38)
	<b>Shadi Hilles</b> and <b>Noor Saleh</b>	Brain Tumor Segmentation and Classification Using CNN Model (11)	<b>Melike Kaptan</b> , Emrah Tomur, Tolga Ayav and Murat Erten	Secure IoT Update Using Blockchain (28)	<b>Muhammad Sohaib Roomi</b> , Muhammad Imran Ghafoor, Mubashar Aqeel, Umaiz Sadiq and Sibghat Ullah Bazai	Multi-Features Classification of SMD Screen in smart cities using Randomised Machine Learning Algorithms (71)
	Rafsan Al Mamun, <b>Gazi Abu Rafin</b> , Adnan and Md. Al Imran Sefat	Application of Deep Convolutional Neural Network in Breast Cancer Prediction using Digital Mammograms (19)	Kalpa Dissanayake, Pavan Somarathne, Ushan Fernando, <b>Devaki Pathmasiri</b> , Chethana Liyanapathirana and Lakmal Rupasinghe	"Trust Pass" – Blockchain Based Trusted Digital Identity Platform Towards Digital Transformation (53)	<b>Sibghat Ullah Bazai</b> , Zubair Zaland and Shah Marjan	Three-Tier Password Security Algorithm for Online Databases (74)
	Murat Ozbayoglu, <b>Mustafa Mert Keskin</b> and Muhammed Yilmaz	A Deep Neural Network Model for Stock Investment Recommendation by Considering the Stock Market as a Time Graph (26)	<b>Candan Güven</b> , Özgür Karaduman and Engin Avci	A Research on Urban Intelligent Traffic Management Problems: Sensors and Methods (75)	<b>Muhammad Imran Ghafoor</b> , Sibghat Ullah Bazai, Muhammad Sohaib Roomi and Mubashar Aqeel	Energy Efficient Traffic Load Balancing in Green Communication for Cellular Networks (37)
	<b>Naaman Omar</b> , Adel Al-Zebari and Abdulkadir Sengur	Deep learning approach to predict forest fires using meteorological measurements (44)	<b>Erdem Ergen</b>	Notarized Trusted Trading by Smart Contracts (10)	<b>Farhad Mohammed-Ameen Zebari</b> and Mehmet Bilal Er	Power Saving, Safety, and Remote Controlling Smart Building Based on IoT (27)
	<b>Bilyaminu Muhammad</b> and Asaf Varol	An Improved Transfer Learning-Based Model for Malaria Detection using Blood Smear of Microscopic Cell Images (15)	<b>Nausheen Ashraf</b> , Shahzad Amin Sheikh and Sajjad Ahmad Khan	Performance Analysis of Dual Hop Half Duplex SWIPT based Cooperative Internet of Things (IoT) Network (35)	Giwantha Sandeepa Wijekoon, Lakshan Wijewardana, Sethma Wattegedara, Lahiru Sanka Kumara, Sasini Wellalage and Pradeep Abeygunawardhana	IoT Based Classification and Price Prediction of Organically and Inorganically Grown Vegetables and Fruits (66)
<b>15:30-15:45</b>	<b>Coffee Break</b>					
<b>15:45-17:15</b>	<b>Session-4 AI-MACHINE LEARNING</b>		<b>Session-8 NETWORKS</b>		<b>Session-12 MACHINE LEARNING-IMAGE PROC</b>	
	<b>CHAIR: Prof. Dr. Asaf Varol</b>	<b>Title</b>	<b>CHAIR: Prof.Dr. Kayhan Erciyes</b>	<b>Title</b>	<b>CHAIR: Dr. Serkan VAROL</b>	<b>Title</b>
	Akila Ishan Perera Balasuriya, Dulsara Diliitha, <b>Methsarani Perera</b> and Kaveena Jayaweera.	Secure Smart Parking Solution Using Image Processing And Machine Learning (43)	<b>Kayhan Erciyes</b>	A parallel closed centrality algorithm for complex networks (4)	<b>Süleyman Çeven</b> , Enver Küçükkülahlı, Ahmet Albayrak and Yunus Biçen	Development of IoT Based Battery Management System (73)
	<b>E.M.A.K. Siriwardana</b> , K.D. Amila Sampath, S.G.L.D.H. Kaushalya, Sanjeevi Chandrasiri and Vijani Piyawardana	Driving through a bend: detection of unsafe driving patterns and prevention of heavy good vehicle rollovers (49)	<b>Kayhan Erciyes</b>	Implementation of algebraic graph clustering algorithms for complex networks (7)	<b>Narsimlu Kemsaram</b> , Anweshan Das and Gijs Dubbelman	A Model-Based System Engineering Methodology to Design Surround Vision System for Cooperative Automated Vehicle Applications (40)
	<b>Mehmet Süleyman Yıldırım</b> and Emre Dandil	DeepMSWeb: A Web-Based Decision Support System via Deep Learning for Automatic Detection of MS Lesions (65)	Denys Gobov and <b>Valentyn Yanchuk</b>	Network Analysis application to analyze the activities and artifacts in the core business analysis cycle (20)	<b>Atif Saeed</b>	Sustainable Automated Guided Vehicles (46)
	<b>Sitparoopan Thivyarooopy</b> , Chellapillai Vajira, Arulmoli Jayawarman, Sanjeevi Chandrasiri and Archchana Kugathasan	Home Bridge - Smart Elderly Care System (67)	Firat Ak, Ersun Sümeroğlu, Gökhan Gönder, Veli <b>Batuhan Özkan</b> and Meltem Eryılmaz	Biletini Devret: A Secure Mobile App for Ticket Sales (16)	Mina Messiha, Laura Fox, <b>Serkan Varol</b> , Bandar Alduwayhi and Erkan Kaplanoglu	Traffic Accidents Cause and Effect Analysis: A Case Study in Chattanooga, Tennessee (41)
	<b>Bezzanur Bostanci</b> and Ahmet Albayrak	Detection of Intrusions with Machine Learning Methods (39)			<b>Oumayma Ouedrhiri</b> , Oumayma Banouar, Salah El Hadaj and Said Raghay	Quantum phase estimation based algorithms for machine learning (34)
<b>17:15-18:00</b>	<b>INVITED SPEAKER</b>  <b>Chair: Prof. Dr. Asaf VAROL</b>				<b>Assoc. Prof. Dr. Narasimha SHASHIDHAR</b> <b>Department of Computer Science at Sam Houston State University, Huntsville, TX</b>  <b>SECURITY CHALLENGES IN CLOUD, FOG AND EDGE COMPUTING</b>	
<b>18:00-18:15</b>	<b>Closing Remarks - Co-chairs</b>					