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International informatics conference
International informatics and SOFTWARE ENGINEERING
December 21-22, 2023 Ankara / TÜRKİYE

Disaster Recovery and Resilience Management Using Information Technology

IISEC 2023 SYMPOSIUM PROGRAM

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DECEMBER 21, 2023 (THURSDAY)



13:00 - 14:00		Regis	TRATION	
14:00 - 14:30	OPENING CEREMONY (MAIN FLOOR CONFERENCE HALL)			
	PROF. DR. ALI YAZICI	ATILIM UNIVERSITY, TR		
	PROF. DR. ASAF VAROL	GENERAL CHAIR OF IISEC, T	HE UNIVERSITY OF TENNESSEE AT CHATTANOOGA, TN, US	
	PROF. DR. AHAD NASAB	DEAN OF COLLEGE OF ENGIN	EERING AND COMPUTER SCIENCE, UTC, US	
14:30 - 15:30		KEYNOTE SPEECH (MAIN	I FLOOR CONFERENCE HALL)	
		Prof. Dr. Şe	REF SAĞIROĞLU	
	BIG DATA AN	ALYTICS, SECURITY AND P	RIVACY ISSUES IN SMART ENERGY SYSTEMS	
15:30 - 16:00		COFFE	е Влеак	
16:00 - 17:00	KEYNOTE SPEECH (MAIN FLOOR CONFERENCE HALL)			
	PROF. DR. MURAT KARAKAYA			
	REVOLUTIONIZING HUMAN-COMPUTER INTERACTION FOR SOFTWARE DEVELOPMENT: THE			
	Power of Large Language Models			
16:00 - 17:00		TE SPEECH	Session 1 (İlhan Varank Conference Hall- Floor 1)	
	(MAIN FLOOR	CONFERENCE HALL)	Online Presentations	
SESSION CHAIR				
PAPER IDs			109, 96, 97, <mark>103</mark>	

DECEMBER 22, 2023 (FRIDAY)

09:30-10:00		REGISTRATION	
10:00- 11:30	SESSION 2 (MAIN FLOOR CONFERENCE HALL) IN-PERSON PRESENTATIONS	Session 3 (İlhan Varank Conference Hall- Floor 1) Online Presentations	SESSION 4 (YAVUZ CONFERENCE HALL- FLOOR 1) ONLINE PRESENTATIONS
Session Chair			
PAPER IDS	14, 20, 55, 56, <mark>54</mark>	2, 3, 4, 9, 13, 12	11, 62, 80, 88, <mark>36</mark>
12:15 - 13:30		LUNCH	
13:30 - 15:00	SESSION 5 (MAIN FLOOR CONFERENCE HALL) IN-PERSON PRESENTATIONS	Session 6 (İlhan Varank Conference Hall- Floor 1) Online Presentations	SESSION 7 (YAVUZ CONFERENCE HALL- FLOOR 1) ONLINE PRESENTATIONS
Session Chair			
PAPER IDS	21, 70, 76, 90 <mark>, 86</mark>	32, 77, 37, 50, 19, 74	40, 69, 98, 99, 78
15:00-15:15		Вгеак	
15:15 – 16:45	Session 8 (Main Floor Conference Hall) IN-Person Presentations	Session 9 (İlhan Varank Conference Hall- Floor 1) Online Presentations	Session 10 (Yavuz Conference Hall- Floor 1) Online Presentations
Session Chair			
PAPER IDS	83, 84, 1, 107	22, 101, 102, 104, 75, 10	51, 65, 108, 87, 72
16:45 - 18:00	CLOSING	G CEREMONY (MAIN CONFEREN	ce Hall)

41, 42, 47, 60, 64, 89

14:00-14:30	OPENING CEREMONY (MAIN FLOOR CONFERENCE HALL)
Prof. I	Dr. Ali Yazici, Atilim University, TR
Prof. I	DR. ASAF VAROL, GENERAL CHAIR OF IISEC, THE UNIVERSITY OF TENNESSEE AT CHATTANOOGA, US
Prof.	DR. AHAD NASAB DEAN OF COLLEGE OF ENGINEERING AND COMPUTER SCIENCE, UTC, US
14:30-15:30	KEYNOTE SPEECH (MAIN FLOOR CONFERENCE HALL)
	Prof. Dr. Şeref Sağıroğlu
	BIG DATA ANALYTICS, SECURITY AND PRIVACY ISSUES IN SMART ENERGY SYSTEMS
15:30-16:00	Coffee Break
16:00-17:00	KEYNOTE SPEECH (MAIN FLOOR CONFERENCE HALL)
	PROF. DR. MURAT KARAKAYA
	REVOLUTIONIZING HUMAN-COMPUTER INTERACTION FOR SOFTWARE DEVELOPMENT: THE POWER OF LARGE LANGUAGE MODELS
16:00-17:00	Session 1 (İlhan Varank Conference Hall- Floor1)
	ZOOM ID: / PASSWORD:
	CHAIR:
	109, 96, 97, <mark>103</mark>
PAPER ID 109:	Image Denoising with CNN-Based Attention Neval Karaca* and Serdar Ciftci
PAPER ID 96:	Finding Optimal Monte-Carlo Run Numbers for Stochastic Data Under Gaussian Distribution Ekin Can Erkus*, Alper Yildiz and Sevim Açıksöz
Paper ID 97:	A Comparison of Optimization Methods for Path Finding Problem Ekin Can Erkus*, Nazim Önder Orhan and Ahmet Bursali
PAPER ID 103:	AI-Powered Software Testing: The Impact of Large Language Models on Testing Methodologies Vahit Y Bayri, Ece Demirel*
	DECEMBER 22, 2023 (FRIDAY)
10:00-11:30	Session 2 (Main Floor Conference Hall)
	CHAIR:
	14, 20, 55, 56, <mark>5</mark> 4
PAPER ID 14:	Helpchain: A Blockchain based Disaster Management System Berke Parildar, Doruk Sayin, Furkan Zeki Türkzeybek*, Onur Küçüköz and Yusuf Murat Erten
PAPER ID 20:	Recommender Systems for NFT Purchasing Durmuş Aydoğdu* and Nizamettin Aydın
PAPER ID 55:	Enhancing Text Summarization: Evaluating Transformer-Based Models and the Role of Large Language Models like ChatGPT Pinar Savci and Bihter Daş
PAPER ID 56:	Analyzing Human and ChatGPT Responses: A Comparative Study of Transformer Models in

Natural Language Processing Tunahan Gökçimen and Bihter Daş

 PAPER ID 54:
 Investigation of DQN Algorithm for Driving Control for Smart Cities and Traffic Safety

 YILDIRAY YIĞIT*, MURAT KARABATAK, ASAF VAROL AND AHAD NASAB

10:00-11:30 SESSION 3 (İLHAN VARANK CONFERENCE HALL- FLOOR1)

ZOOM ID: / PASSWORD:

CHAIR:

2, 3, 4, 9, 13, 12

- PAPER ID 2: ENHANCING MANUFACTURING EFFICIENCY WITH COMPUTER VISION AND DOOSAN ROBOTICS: AN OVERVIEW OF REAL-TIME OBJECT DETECTION AND AUTOMATED DECISION-MAKING AMENI CHAABANI, RAEF CHERIF* AND YACINE YADDADEN
- PAPER ID 3: AUTONOMOUS MULTI-UAV SYSTEM FOR EFFICIENT SCANNING OF LARGE CONCRETE STRUCTURES

	Mohamed Razi Ghedamsi, Raef Cherif* and Yacine Yaddaden
Paper ID 4:	Improving Measurement Accuracy of Acoustic Intensity in Vibrating Machines Using a Doosan Robot Oussema Triki, Raef Cherif* and Yacine Yaddaden
PAPER ID 9:	Design and Feasibility Study of Assistive Robotic Arm for Orthopedically Handicapped Individuals Ali İhsan Sari*, Berkay Dervişoğlu and Atajan Rovshenov
PAPER ID 13:	Sinhala Sign Language Learning System for Hearing Impaired Community Idushan K. A. S.*, Jayasundera P. S., Jenny Krishara, Dilshan P. G. T., Madhushan K. L. B. and Dinuka Wijendra
PAPER ID 12:	Assessing The Explainability of Lgbm Model For Effort Estimation on ISBSG Dataset Merve Özdeş Demir*, Bahar Gezici and Ayça Kolukisa Tarhan
10:00-11:30	SESSION 4 (YAVUZ CONFERENCE HALL- FLOOR1)
	ZOOM ID: / PASSWORD:
	CHAIR:
	11, 62, 80, 88, <mark>36</mark>
PAPER ID 11:	VISUALIZING THE PATH OF A PHOTO TAKER FROM IMAGE METADATA Rasty Shakhawan Majid*, Cihan Varol, Asaf Varol and Ahad Nasab
PAPER ID 62:	Investigating Pre- and Post-Seismic TEC Anomalies Related to Moderate Earthquakes in Türkiye Ahmad Muhammad*, Fatih Külahçi, Asaf Varol and Salim Jibrin Danbatta
PAPER ID 80:	Oblique Logistic Function for the Rank-Frequency Distribution of Letters Can Özbey
PAPER ID 88:	GOMAD: A GOAL ORIENTED APPROACH FOR MODELING AND ANALYZING DATABASE DEPLOYMENT ABDELKADER OUARED, AHMED ALA EDDINE BENALI AND AHMED SIABDELHADI
PAPER ID 36:	Probability Analysis of Tracking System of a Mobile Robot A. K. Ibrahim, A. A. Lobaty, Moustafa Kurdi
13:30-15:00	Session 5 (Main Floor Conference Hall)
	CHAIR:
	21, 70, 76, 90, <mark>86</mark>
PAPER ID 21:	AI-Driven Drought Management System: A Turkish Case Study Milad Sabamehr* and Cansu Çığdem Ekin
PAPER ID 70:	Indonesian Students' Acceptance of Google Classroom Nurul Retno Nurwulan* and Intan Fauziah
Paper ID 76:	Verification of the Effect of Hot Springs on Arteriosclerosis based on the Mathematical Model of Arteriosclerosis Onset III : in Case of Alkaline Springs Hiroyuki Kagami, Atsushi Terada and Katsushige Nakashima
PAPER ID 90:	What more can LEGO Teach Agile Methods Necmettin Ozkan, Sevval Bal and Mehmet Şahin Gök
PAPER ID 86:	DEEP TRANSFER LEARNING TO PREDICT ALZHEIMER DISEASE STATUS Ahmed Benyahia*, Abdessalem Benammar and Imad Eddine Araar
13:30-15:00	Session 6 (İlhan Varank Conference Hall- Floor1)
	ZOOM ID: / PASSWORD:

32, 77, 37, 50, 19, 74

CHAIR:

- PAPER ID 32: THE FFCP MODEL FOR PREDICTING CLICK-THROUGH RATE ERGUN BIÇICI*
- PAPER ID 77:
 RESIDUAL CONNECTIONS IMPROVE PREDICTION PERFORMANCE

 ERGUN BIÇICI*, ALI BUĞRA KANBUROĞLU AND RAMAZAN TARIK TÜRKSOY
- PAPER ID 37:
 SMART ORNAMENTAL FISH CARING SYSTEM FOR AQUATIC INDUSTRY

 D.T.W.S. Perera*, R.H.T. Nethmini, C.K. Jayawardan, M.P. Abeysekara, Udara Srimath S. Samaratunge

 AND THILINI JAYALATH
- PAPER ID 50:
 VISION TRANSFORMER MODEL FOR EFFICIENT STROKE DETECTION IN NEUROIMAGING

 OGUZHAN KATAR*, OZAL YILDIRIM AND YESIM EROGLU
 OGUZHAN KATAR*, OZAL YILDIRIM AND YESIM EROGLU
- PAPER ID 19:
 DEVELOPMENT OF A SMART EDGE DEVICE FOR HOME SECURITY

 CHEN SHYAN LEE AND HOU KIT MUN

Paper ID 74:	Child Protect: Mobile Application Harnessing the A* Search Algorithm for Child Protect Awareness Roselia C. Morco, Rosmina Joy M. Cabauatan, Risty M. Acerado, Fredilyn B. Calanda and Justine Eric I. Abad
13:30-15:00	Session 7 (Yavuz Conference Hall- Floor1)
	ZOOM ID: / PASSWORD:
	CHAIR:
	40, 69, 98, 99, 78
Paper ID 40:	Analyzing Customer Churn: A Comparative Study of Machine Learning Models on Pay-TV Subscribers in Turkey Tuğçe Aydın Hataş*, Sibel Kirmizigül Çalışkan, Yasemin Kurtçu Meşe, Emir Obali, Veysel Karanı Yılmaz, Ebru Öz, Ayşenur Yıldız, Erkan Kara and Tuna Çakar
PAPER ID 69:	GRAFRAUD: Fraud Detection using Graph Databases and Neural Networks Alperen Sayar, Şuayip Arslan, Ajeet Singh Raina, Seyit Ertuğrul and Tuna Çakar*
PAPER ID 98:	Analytical Approaches in Customer Relationship Management Zeynep Şahin, Mustafa Aşkım Akata, Ayşe Kızılay, Kaan Ergin, Büşra Kaya and Tuna Çakar*
PAPER ID 99:	Optimizing Collective Building Management through a Machine Learning-based Decision Support System Mert Güvençli, Erkan Doğan, Burcu Özyürüyen, Halil Kiran, Hasan Dağ and Tuna Çakar*
PAPER ID 78:	An Online Shoppers Purchasing Intention Model Based on Ensemble Learning Aykut Karakaya, İrem Karakaya and Talya Temizceri*
15:15-16:45	Session 8 (Main Floor Conference Hall)
	CHAIR:
	83, 84, 1, 107
PAPER ID 83:	Enhanced Thermal Human Detection with Fast Filtering for UAV Images Umut Ozyurt*, Zafer Dogan Budak, Begum Cicekdag and Seyda Ertekin
PAPER ID 84:	A Software Tool for Planning LEO Satellite Operations Mustafa Yavuz Oztürk* and Halit Oğuztüzün
PAPER ID 1:	Reconfigurable Low Weight Hybrid PUF Design Against Side Channel Attacks Bhagyalakshmi Narayanapuram and Jeebananda Panda
PAPER ID 107:	A Study on Slice-Aware Industrial Edge Applications for Next-Generation Private Networks Aykut Çubukçu*, Özlem Çubukçu, Yağmur Sabucu Sandal, Adnan Kavak and Kerem Küçük
15:15-16:45	Session 9 (İlhan Varank Conference Hall- Floor1)
	ZOOM ID: / PASSWORD:
	CHAIR:
	22, 101, 102, 104, 75, 10
PAPER ID 22:	GENERATIVE PRE-TRAINED TRANSFORMER (GPT) MODELS FOR IRONY DETECTION AND CLASSIFICATION MUSTAFA ULVI AYTEKIN* AND O. AYHAN ERDEM
PAPER ID 101:	Forecasting and Analysis of Energy Consumption and Waste Generation in Antalya with SVR Şuayb Talha Özçelik*, Faik Boray Tek and Erdal Şekerci
PAPER ID 102:	Leveraging Transformer-based Language Models for Enhanced Service Insight in Tourism Aleyna Er, Şuayb Talha Özçelik* and Meltem Turhan Yöndem
PAPER ID 104:	Application of ChatGPT in the Tourism Domain: Potential Structures and Challenges Orkun Mehmet Kiliçlioğlu, Şuayb Talha Özçelik* and Meltem Turhan Yöndem

- PAPER ID 75:
 REGRESSION ANALYSIS OF AGE OF EMPIRES II DE MATCH RESULTS WITH MACHINE LEARNING

 ICLAL CETIN TAS AND AHMET ANIL MUNGEN*
- PAPER ID 10:
 MAN HOUR PREDICTION FOR COMPLEX INDUSTRIAL PRODUCTS

 AHMET EMIN ÜNAL*, HALIT BOYAR, BURCU KULELI PAK, MEHMET CEM YILDIZ, ALI ERMAN ERTEN AND VEHBI

 ÇAĞRI GÜNGÖR
- 15:15-16:45 Session 10 (YAVUZ CONFERENCE HALL- FLOOR1)

ZOOM ID: / PASSWORD:

CHAIR:

51, 65, 108, 87, 72

 PAPER ID 51:
 DEMAND FORECASTING FOR DAILY RETAIL ORDERS IN FRESH FOOD MARKET

 UTKU BOZDOĞAN AND GÜLFEM IŞIKLAR ALPTEKIN

- PAPER ID 65: DEVELOPMENT OF A GENETIC ALGORITHM FOR VEHICLE ROUTING PROBLEM IN MILITARY LOGISTICS DISTRIBUTION SÜLEYMAN KESIK*; CEVRIYE ALTINTAŞ
- PAPER ID 108:
 Applying Sentiment Analysis on Children's Stories

 Azhar Ahmed Bilal*; Ayhan Erdem; Sinan Toklu
- PAPER ID 87:
 FAULT DETECTION MODEL USING MEASUREMENT DATA IN FIBER OPTIC INTERNET LINES

 ERAY BATTAL, KEREM SAVAS, GÖZDE ÖZKAN AND TUNA ÇAKAR*
- PAPER ID 72: A DIGITAL TWIN FRAMEWORK FOR EDGE SERVER PLACEMENT IN MOBILE EDGE COMPUTING ELIF BOZKAYA
- 16:45-18:00 CLOSING CEREMONY (MAIN HALL)
- 18:00-19:00 SESSION 11 (MAIN FLOOR CONFERENCE HALL)

VIDEO RECORDING PRESENTATIONS

41, 42, 47, 60, 64, 89

- PAPER ID 41:
 DETECTING NOVEL BEHAVIOR AND PROCESS ENHANCEMENT WITH MULTIMODAL PROCESS MINING

 ABDURRAHMAN TELLI, TUGBA GURGEN ERDOGAN AND AYÇA KOLUKISA
 ABDURRAHMAN TELLI, TUGBA GURGEN ERDOGAN AND AYÇA KOLUKISA
- PAPER ID 42: FACIAL SKINCARE PRODUCT SUGGESTION WITH PRODUCT POPULARITY AND POST RECOMMENDATION CARE H.M.W.T.C.B. SAMARAKOON, G.A.T.T. WIJESINGHE, G.K.B.V. KARUNATHILAKE, A.U. OVITIGALA, K.M.L.P. WEERASINGHE AND ISHAA WEERASINGHE
- PAPER ID 47:
 RAILTECHX: Advancing Railway Modernization and Expansion Solution

 Tharusha Rajith Singh, Dulsara Weerasinghe, Piyumika Almeda, Abdullah Rizan, Uthpala Samarakoon and Nelum Chathuranga Amarasena
- PAPER ID 60: FROM A FILIPINO MORPHOLOGICAL AND TEMPLATE-BASED STEMMING: A TEXT BASED ANALYZER AND DESIGN

GREAT ALLAN M. ONG AND MELVIN A. BALLERA

- PAPER ID 64: INNOVATION IN CORPORATE CYBER SECURITY MUSTAFA ŞENOL
- PAPER ID 89:
 MOBILE APP FOR KIDNEY PATIENTS TO PROVIDE A COMPREHENSIVE SOLUTION TO MANAGE DISEASE

 PALINDA M COLOMBAGE*, PABOSHI S DE SILVA, ISHAN T GALLAGE, RUPASINGHE M.R.S.N., LOKESHA

 WEERASINGHE AND THAMALI KELEGAMA