



# 4<sup>th</sup> INTERNATIONAL INFORMATICS and SOFTWARE ENGINEERING CONFERENCE

December 21-22, 2023 Ankara / TÜRKİYE

Disaster Recovery and Resilience Management Using Information Technology

<https://iisec.ibdakademi.org.tr/2023/>

## IISEC 2023 SYMPOSIUM PROGRAM

DECEMBER 21, 2023 (THURSDAY)

VENUE: BİLGİ TEKNOLOJİLERİ VE İLETİŞİM KURUMU (BTK) – ANKARA



13:00 - 14:00	REGISTRATION	
14:00 - 14:30	OPENING CEREMONY (MAIN FLOOR CONFERENCE HALL) <a href="https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1">https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1</a> PROF. DR. ALI YAZICI ATILIM UNIVERSITY, TR PROF. DR. ASAF VAROL GENERAL CHAIR OF IISEC, THE UNIVERSITY OF TENNESSEE AT CHATTANOOGA, TN, 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) <b>PROF. DR. ŞEREF SAĞIROĞLU</b> <a href="https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1">https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1</a> 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) <b>PROF. DR. MURAT KARAKAYA</b> <a href="https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1">https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1</a> REVOLUTIONIZING HUMAN-COMPUTER INTERACTION FOR SOFTWARE DEVELOPMENT: THE POWER OF LARGE LANGUAGE MODELS	
16:00 - 17:00	KEYNOTE SPEECH (MAIN FLOOR CONFERENCE HALL)	SESSION 1 (İLHAN VARANK CONFERENCE HALL- FLOOR 1) ONLINE PRESENTATIONS
SESSION CHAIR		ASSOC. PROF. DR. HÜREVREN KILIÇ
PAPER IDS		109, 96, 97, 103

## 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	PROF. DR. YUSUF MURAT ERTEN	PROF. DR. ASAF VAROL	DOÇ. DR. MURAT ÖZBAYOĞLU
PAPER IDS	14, 20, 54	2, 3, 4, 9, 13, 12	11, 62, 80, 88, 36, 55, 56
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	DOÇ. DR. CANSU ÇİĞDEM EKİN	DR. GÜZİN TÜRKMEN	DOÇ. DR. SACIP TOKER
PAPER IDS	21, 70, 76, 90, 86	32, 77, 37, 50, 19, 74	40, 69, 98, 99, 78
15:00-15:15	BREAK		
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	PROF. DR. MURAT KARABATAK	DR. DAMLA TOPALLI	DOÇ. DR. BERK ANBAROĞLU
PAPER IDS	83, 84, 1, 107	22, 101, 102, 104, 75, 10	51, 65, 108, 87, 72
16:45 - 18:00	CLOSING CEREMONY (MAIN CONFERENCE HALL)		
18:00-19:00	SESSION 11 ((MAIN FLOOR CONFERENCE HALL) VIDEO RECORDING PRESENTATIONS 41, 42, 47, 60, 64, 89		

**14:00-14:30 OPENING CEREMONY (MAIN FLOOR CONFERENCE HALL)**

<https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1>

PROF. DR. ALI YAZICI, ATILIM UNIVERSITY, TR

PROF. 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)**

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**PROF. DR. ŞEREF SAĞIROĞLU**

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)**

<https://us06web.zoom.us/j/89022143673?pwd=tuZbrwTJ8y3YzLFjpDUV89Jm74vJm4.1>

**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)**

<https://live.ozbilens.com/session/lop-ahn-7az-vib>

**CHAIR: ASSOC. PROF. DR. HÜREVREN KILIÇ**

**109, 96, 97, 103**

**PAPER ID 109:** IMAGE DENOISING WITH CNN-BASED ATTENTION

NEVAL KARACA\* AND SERDAR CİFTÇİ

**PAPER ID 96:** FINDING OPTIMAL MONTE-CARLO RUN NUMBERS FOR STOCHASTIC DATA UNDER GAUSSIAN DISTRIBUTION

EKİN CAN ERKUS\*, ALPER YILDIZ AND SEVİM AÇIKSÖZ

**PAPER ID 97:** A COMPARISON OF OPTIMIZATION METHODS FOR PATH FINDING PROBLEM

EKİN CAN ERKUS\*, NAZİM ÖNDER ORHAN AND AHMET BURSALI

**PAPER ID 103:** AI-POWERED SOFTWARE TESTING: THE IMPACT OF LARGE LANGUAGE MODELS ON TESTING METHODOLOGIES

VAHİT Y BAYRI, ECE DEMİREL\*

**DECEMBER 22, 2023 (FRIDAY)**

**10:00-11:30 SESSION 2 (MAIN FLOOR CONFERENCE HALL)**

**CHAIR: PROF. DR. YUSUF MURAT ERTEN**

<https://us06web.zoom.us/j/81262879222?pwd=bx9Rw2bbu8O8abduK6neFxRy05bXs3.1>

(Meeting ID: 812 6287 9222, Password: TBD2023)

**14, 20, 54**

**PAPER ID 14:** HELPCCHAIN: A BLOCKCHAIN BASED DISASTER MANAGEMENT SYSTEM

BERKE PARILDAR, DORUK SAYIN, FURKAN ZEKİ TÜRKZEYBEK\*, ONUR KÜÇÜKÖZ AND YUSUF MURAT ERTEN

**PAPER ID 20:** RECOMMENDER SYSTEMS FOR NFT PURCHASING

DURMUŞ AYDOĞDU\* AND NİZAMETTİN AYDIN

**PAPER ID 54:** INVESTIGATION OF DQN ALGORITHM FOR DRIVING CONTROL FOR SMART CITIES AND TRAFFIC SAFETY

YILDIRAY YİĞİT\*, MURAT KARABATAK, ASAF VAROL AND AHAD NASAB

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

<https://live.ozbilens.com/session/lop-ahn-7az-vib>

**CHAIR: PROF. DR. ASAF VAROL**

**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

AMENİ 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

ALİ İHSAN SARI\*, BERKAY DERİŞOĞLU AND ATAĞAN 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 DEMİR\*, BAHAR GEZİCİ AND AYÇA KOLUKISA TARHAN

**10:00-11:30** **SESSION 4 (YAVUZ CONFERENCE HALL- FLOOR1)**

<https://live.ozbilens.com/session/lo7-pb3-f4e-xvg>

**CHAIR: DOÇ. DR. MURAT ÖZBAYOĞLU**

**11, 62, 80, 88, 36, 55, 56**

- 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 TÜRKİYE  
AHMAD MUHAMMAD\*, FATİH KÜLAHÇI, ASAF VAROL AND SALİM JİBRİN DANBATT
- 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. İBRAHİM, A. A. LOBATY, MOUSTAFA KURDI
- 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 GÖKÇİMEN AND BIHTER DAŞ

**13:30-15:00** **SESSION 5 (MAIN FLOOR CONFERENCE HALL)**

**CHAIR: DOÇ. DR. CANSU ÇİĞDEM EKİN**

<https://us06web.zoom.us/j/81262879222?pwd=bx9Rw2bbu8O8abduK6neFxRy05bXs3.1>

(Meeting ID: 812 6287 9222, Password: TBD2023)

**21, 70, 76, 90, 86**

- PAPER ID 21:** AI-DRIVEN DROUGHT MANAGEMENT SYSTEM: A TURKISH CASE STUDY  
MILAD SABAMEHR\* AND CANSU ÇİĞDEM EKİN
- PAPER ID 70:** INDONESIAN STUDENTS' ACCEPTANCE OF GOOGLE CLASSROOM  
NURUL RETNO NURWULAN\* AND İNTAN FAUZİAH
- 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  
NECMEETTİN ÖZKAN, SEVVAL BAL AND MEHMET ŞAHİN GÖK
- PAPER ID 86:** DEEP TRANSFER LEARNING TO PREDICT ALZHEIMER DISEASE STATUS  
AHMED BENYAHIA\*, ABDESSALEM BENAMMAR AND İMAD EDDİNE ARAAR

**13:30-15:00** **SESSION 6 (İLHAN VARANK CONFERENCE HALL- FLOOR1)**

<https://live.ozbilens.com/session/lop-ahn-7az-vib>

**CHAIR: DR. GÜZİN TÜRKMEN**

**32, 77, 37, 50, 19, 74**

- PAPER ID 32:** THE FFCP MODEL FOR PREDICTING CLICK-THROUGH RATE  
ERGÜN BİÇİCİ\*
- PAPER ID 77:** RESIDUAL CONNECTIONS IMPROVE PREDICTION PERFORMANCE  
ERGÜN BİÇİCİ\*, 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\*, ÖZAL YILDIRIM AND YESİM EROĞLU
- 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, ROSMİNA JOY M. CABAUATAN, RİSTY M. ACERADO, FREDİLYN B. CALANDA AND JUSTINE ERIC I. ABAD

**13:30-15:00** **SESSION 7 (YAVUZ CONFERENCE HALL- FLOOR1)**

<https://live.ozbilens.com/session/lo7-pb3-f4e-xvg>

**CHAIR: DOÇ. DR. SACİP TOKER**

**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 AYDIN HATAŞ\*, SİBEL KIRMIZIGÜL ÇALIŞKAN, YASEMİN KURTÇU MEŞE, EMİR OBALI, VEYSEL KARANI YILMAZ, EBRU ÖZ, AYŞENUR YILDIZ, ERKAN KARA AND TUNA ÇAKAR
- PAPER ID 69:** GRAFRAUD: FRAUD DETECTION USING GRAPH DATABASES AND NEURAL NETWORKS  
ALPEREN SAYAR, ŞUAYIP ARSLAN, AJEET SINGH RAINA, SEYİT ERTUĞRUL AND TUNA ÇAKAR\*
- PAPER ID 98:** ANALYTICAL APPROACHES IN CUSTOMER RELATIONSHIP MANAGEMENT  
ZEYNEP ŞAHİN, MUSTAFA AŞKİM AKATA, AYŞE KIZILAY, KAAAN ERGİN, BÜŞRA KAYA AND TUNA ÇAKAR\*
- PAPER ID 99:** OPTIMIZING COLLECTIVE BUILDING MANAGEMENT THROUGH A MACHINE LEARNING-BASED DECISION SUPPORT SYSTEM

**PAPER ID 78:** MERT GÜVENÇLİ, ERKAN DOĞAN, BURCU ÖZYÜRÜYEN, HALİL KIRAN, HASAN DAĞ AND TUNA ÇAKAR\*  
AN ONLINE SHOPPERS PURCHASING INTENTION MODEL BASED ON ENSEMBLE LEARNING  
AYKUT KARAKAYA, İREM KARAKAYA AND TALYA TEMİZCERİ\*

**15:15-16:45** **SESSION 8 (MAIN FLOOR CONFERENCE HALL)**

**CHAIR: PROF. DR. MURAT KARABATAK**

<https://us06web.zoom.us/j/81262879222?pwd=bx9Rw2bbu8O8abduK6neFxRy05bXs3.1>

(Meeting ID: 812 6287 9222, Password: TBD2023)

**83, 84, 1, 107**

**PAPER ID 83:** ENHANCED THERMAL HUMAN DETECTION WITH FAST FILTERING FOR UAV IMAGES  
UMUT OZYURT\*, ZAFER DOGAN BUDAK, BEGUM CICEKDAĞ AND SEYDA ERTEKİN

**PAPER ID 84:** A SOFTWARE TOOL FOR PLANNING LEO SATELLITE OPERATIONS  
MUSTAFA YAVUZ ÖZTÜRK\* AND HALİT 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)**

<https://live.ozbilens.com/session/lop-ahn-7az-vib>

**CHAIR: DR. DAMLA TOPALLI**

**22, 101, 102, 104, 75, 10**

**PAPER ID 22:** GENERATIVE PRE-TRAINED TRANSFORMER (GPT) MODELS FOR IRONY DETECTION AND CLASSIFICATION  
MUSTAFA ULVI AYTEKİN\* AND O. AYHAN ERDEM

**PAPER ID 101:** FORECASTING AND ANALYSIS OF ENERGY CONSUMPTION AND WASTE GENERATION IN ANTALYA WITH SVR  
ŞUAYB TALHA ÖZÇELİK\*, FAİK BORAY TEK AND ERDAL ŞEKERCI

**PAPER ID 102:** LEVERAGING TRANSFORMER-BASED LANGUAGE MODELS FOR ENHANCED SERVICE INSIGHT IN TOURISM  
ALEYNA ER, ŞUAYB TALHA ÖZÇELİK\* AND MELTEM TURHAN YÖNDEM

**PAPER ID 104:** APPLICATION OF CHATGPT IN THE TOURISM DOMAIN: POTENTIAL STRUCTURES AND CHALLENGES  
ORKUN MEHMET KILIÇLIOĞLU, ŞUAYB TALHA ÖZÇELİK\* AND MELTEM TURHAN YÖNDEM

**PAPER ID 75:** REGRESSION ANALYSIS OF AGE OF EMPIRES II DE MATCH RESULTS WITH MACHINE LEARNING  
İCLAL CETİN TAŞ AND AHMET ANIL MÜNGEN\*

**PAPER ID 10:** MAN HOUR PREDICTION FOR COMPLEX INDUSTRIAL PRODUCTS  
AHMET EMİN ÜNAL\*, HALİT BOYAR, BURCU KULELİ PAK, MEHMET CEM YILDIZ, ALI ERMAN ERTEKİN AND VEHBİ ÇAĞRI GÜNGÖR

**15:15-16:45** **SESSION 10 (YAVUZ CONFERENCE HALL- FLOOR1)**

<https://live.ozbilens.com/session/lo7-pb3-f4e-xvg>

**CHAIR: DOÇ. DR. BERK ANBAROĞLU**

**51, 65, 108, 87, 72**

**PAPER ID 51:** DEMAND FORECASTING FOR DAILY RETAIL ORDERS IN FRESH FOOD MARKET  
UTKU BOZDOĞAN AND GÜLFEM IŞIKLAR ALPTEKİN

**PAPER ID 65:** DEVELOPMENT OF A GENETIC ALGORITHM FOR VEHICLE ROUTING PROBLEM IN MILITARY LOGISTICS  
DISTRIBUTION  
SÜLEYMAN KESİK\*; CEVRIYE ALTINTAŞ

**PAPER ID 108:** APPLYING SENTIMENT ANALYSIS ON CHILDREN'S STORIES  
AZHAR AHMED BİLAL\*; AYHAN ERDEM; SINAN TOKLU

**PAPER ID 87:** FAULT DETECTION MODEL USING MEASUREMENT DATA IN FIBER OPTIC INTERNET LINES  
ERAY BATTAL, KEREM SAVAŞ, GÖZDE ÖZKAN AND TUNA ÇAKAR\*

**PAPER ID 72:** A DIGITAL TWIN FRAMEWORK FOR EDGE SERVER PLACEMENT IN MOBILE EDGE COMPUTING  
ELİF 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 TELLİ, TUGBA GURGEN ERDOĞAN 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