

SYMPOSIUM PROGRAM

VENUE : **MARMA HOTEL, MALTEPE - ISTANBUL (MALTEPE UNIVERSITY)**
: **DIGITAL FORENSICS AND SECURITY SYMPOSIUM (YOUTUBE CHANNEL)**

JUNE 06, 2022 (MONDAY)

09:00-10:00 **REGISTRATION**

10:00-10:30 **OPENING CEREMONY (MODERATOR: ASSIST. PROF. DR. MELTEM ÇIÇEK)**

ASSIST. PROF. DR. AYŞE SALMAN	TERM CHAIR OF ISDFS-2022, MALTEPE UNIVERSITY, TR
PROF. DR. ASAF VAROL	GENERAL CHAIR OF ISDFS, MALTEPE UNIVERSITY, TR
RAHMI AKTEPE	INFORMATICS ASSOCIATION OF TURKEY, TR
PROF. DR. BETÜL ÇOTUKSÖKEN	VICE RECTOR OF MALTEPE UNIVERSITY, TR

10:30-11:30 **KEYNOTE SPEECH (CHAIR: PROF. DR. CIHAN VAROL)**

PROF. DR. ABDELLAH TOUHAFI

CONCEPTS AND TECHNIQUES FOR SECURE AND TRUSTED LEARNING SYSTEMS – EFFORTS TO CREATE A NEW IEEE STANDARD.

11:30-12:30 **ARTIFICIAL INTELLIGENCE PRESENTATIONS (CHAIR: ASSIST. PROF. DR. AYŞE SALMAN)**

PAPER ID 33: **COMPARISON OF FORECASTING ALGORITHMS ON RETAIL DATA**
PELİN DİNÇOĞLU, HÜSEYİN AYGÜN

PAPER ID 38: **REAL-TIME BITCOIN PRICE TENDENCY AWARENESS VIA SOCIAL MEDIA CONTENT TRACKING**
HOUSAM MOUSTAFA, MOHAMMAD MALLI, HUSSIEN HAZIMEH

PAPER ID 45: **SWARM INTELLIGENCE APPROACH FOR FEATURE SELECTION PROBLEM**
EVA TUBA*, ADIS ALIHODZIC, UNA TUBA, ROMANA CAPOR HROSIK, MILAN TUBA

PAPER ID 46: **A NEW METHOD OF AUTOMATIC CONTENT ANALYSIS IN DISASTER MANAGEMENT**
ALI BURAK CAN, ISMAIL BURAK PARLAK, TANKUT ACARMAN

12:30-14:00 **LUNCH**

14:00-15:30 **DIGITAL FORENSICS PRESENTATIONS (CHAIR: PROF. DR. ORUÇ RAIF ÖNVURAL)**

PAPER ID 20: **THE DIGITAL FORENSICS OF CYBER-ATTACKS AT ELECTRICAL POWER GRID SUBSTATION**
JUHA PARSSINEN, PETRA RAUSSI, SAMI NOPONEN, MIKAEL OPAS, JARNO SALONEN

PAPER ID 24: **UNSUPERVISED MACHINE LEARNING FOR DRONE FORENSICS THROUGH FLIGHT PATH ANALYSIS**
NAEEM SYED, MAJID ALI KHAN, NAZEERUDDIN MOHAMMAD, GHASSEN BEN BRAHIM, ZUBAIR BAIG

PAPER ID 29: **AIFIS: ARTIFICIAL INTELLIGENCE (AI)-BASED FORENSIC INVESTIGATIVE SYSTEM**
RAMI ALNAFRANI, DUMINDA WIJESEKERA

PAPER ID 31: [AN AUTOMATED FRAMEWORK FOR GENERATING ATTACK GRAPHS USING KNOWN SECURITY THREATS](#)
RAMI ALNAFRANI, DUMINDA WIJESEKERA

PAPER ID 44: [ON THE DIGITAL FORENSICS OF SOCIAL NETWORKING WEB-BASED APPLICATIONS](#)
BASHEER AL-DUWAIRI, AHMED S. SHATNAWI, HALA JARADAT, AFNAN AL-MUSA, HAMZAH AL-AWADAT

PAPER ID 60: [A DEEP LEARNING BASED FAST FACE DETECTION AND RECOGNITION ALGORITHM FOR FORENSIC ANALYSIS](#)
SERKAN KARAKUŞ, MUSTAFA KAYA, SEDA ARSLAN TUNCER, M. TAHA BAHSI, MERVE AÇIKOĞLU

15:30-16:00 COFFEE BREAK

16:00-18:00 CYBER SECURITY PRESENTATIONS (CHAIR: PROF. DR. ENSAR GÜL)

İSTANBUL HALL

PAPER ID 05: [MACHINE LEARNING-BASED SECURITY SOLUTIONS FOR CRITICAL CYBER-PHYSICAL SYSTEMS](#)
ASAD RAZA, SHAHZAD MEMON, MUHAMMAD ALI NIZAMANI, MAHMOOD HUSSAIN SHAH

PAPER ID 13: [DETECTING ARABIC YOUTUBE SPAM USING DATA MINING TECHNIQUES](#)
YAHYA TASHTOUSH, AREEN MAGABLEH, OMAR DARWISH, LUJAIN SMADI, OMAR ALOMARI, ANOOD ALGHAZOO

PAPER ID 18: [DOTMUG: A THREAT MODEL FOR TARGET SPECIFIC APT ATTACKS—MISUSING GOOGLE TEACHABLE MACHINE](#)
P.V. SAI CHARAN, P. MOHAN ANAND, SANDEEP K SHUKLA, NAVEEN SELVAN, HRUSHIKESH CHUNDURI

PAPER ID 47: [SERVERLESS SERVICE ARCHITECTURES AND SECURITY MINIMALS](#)
NUNO MATEUS-COELHO, MARIA MANUELA CRUZ-CUNHA

PAPER ID 55: [AN IMPROVED ANONYMOUS IDENTIFIER](#)
RAY KRESMAN, LARRY DUNNING, JINGLEI LU

PAPER ID 59: [OUTLIER DETECTION TO SECURE WIRELESS SENSOR NETWORKS BASED ON IFOREST](#)
MUHAMMAD R. AHMED, THIREIN MYO, BADAR AL BAROOMI

16:00-18:00 DIGITAL FORENSICS PRESENTATIONS (CHAIR: ASSIST. PROF. DR. VOLKAN TUNALI)

REMOTE (ZOOM: <https://us06web.zoom.us/j/5904834919?pwd=VHp3S0hISWpETzlnV1Jydk8ydFgrdz09>)

PAPER ID 22: [DIGITAL FORENSICS LAB DESIGN: A FRAMEWORK](#)
KHUSHI GUPTA, ASHAR NEYAZ, NARASIMHA SHASHIDHAR, CIHAN VAROL

PAPER ID 23: [DIGITAL FORENSICS ANALYSIS OF WINDOWS 11 SHELLBAG WITH COMPARATIVE TOOLS](#)
ASHAR NEYAZ, NARASIMHA SHASHIDHAR, CIHAN VAROL, AMAR RASHEED

PAPER ID 25: [DIRECTION ESTIMATION OF DRONE COLLISION USING OPTICAL FLOW FOR FORENSIC INVESTIGATION](#)
ARDA SURYA EDITYA, TOHARI AHMAD, HUDAN STUDIawan

PAPER ID 28: [COUNTERING STEGANOGRAPHIC SECURITY WITH CNN](#)
NARENDRAPURAPU SURYA CHANDU, NARAYANAN SUBRAMANIAN

PAPER ID 39: [PROGRESSIVE STANDARD OPERATING PROCEDURES FOR DARKWEB FORENSICS INVESTIGATION](#)
INNOCENT PASCHAL MGEMBE, DAWSON LADISLAUS MSONGALELI, NAVEEN KUMAR CHAUNDHARY

PAPER ID 40: [THREE-TIER DATABASE FORENSIC MODEL](#)
DAWSON LADISLAUS MSONGALELI, INNOCENT PASCHAL MGEMBE

PAPER ID 48: [TOWARDS A FRAMEWORK FOR PREPROCESSING ANALYSIS OF ADVERSARIAL WINDOWS MALWARE](#)
NICHOLAS SCHULTZ, ADAM DUBY

PAPER ID 49: [DEVELOPMENT OF A FORENSIC TOOLKIT FOR SMALL-MEDIUM SIZE BUSINESS \(SMB\)](#)
EDUARDO MARTINEZ, CIHAN VAROL, NARASIMHA SHASHIDHAR, VAN VUNG PHAM

19:30-21:00 GALA DINNER

07 JUNE 2022 TUESDAY

09:30-11:00 **COMPUTER SCIENCE PRESENTATIONS (CHAIR: PROF. DR. KAYHAN ERCIYEŞ)**

İSTANBUL HALL

- PAPER ID 10:** **COMPARING INTERSERVICE COMMUNICATIONS OF MICROSERVICES FOR E-COMMERCE INDUSTRY**
MUSTAFA GÖRDEŞLİ, ASAF VAROL
- PAPER ID 32:** **A NOVEL APPROACH TO DETECT FAKE NEWS USING EXTREME GRADIENT BOOSTING**
S SWETA REDDY, ASWATHY R K, SANTANU MANDAL, VARANASI L V S K B KASYAP
- PAPER ID 53:** **VEHICLE FATALITY ANALYSIS BY GENDER USING PREDICTIVE ANALYTICS**
MENA YOUSSEF, SERKAN VAROL, SERKAN CATMA
- PAPER ID 56:** **PERFORMANCE ANALYSIS OF DEEP APPROACHES ON AIRBNB SENTIMENT REVIEWS**
MUHAMMAD RAHEEL RAZA, WALAYAT HUSSAIN, ASAF VAROL
- PAPER ID 70:** **CLASSIFICATION OF TISSUE TYPES IN HISTOLOGY IMAGES USING GRAPHIC NEURAL NETWORKS**
GÖKHAN BILGIN, ESRA TEPE

09:30-11:00 **PRESENTATIONS (CHAIR: ASSOC. PROF. DR. MURAT KARABATAK)**

REMOTE (ZOOM: <https://us06web.zoom.us/j/5904834919?pwd=VHp3S0hISWpETzlnV1Jydk8ydFgrdz09>)

- PAPER ID 11:** **AUTOMATIC FORENSIC IMAGING OF A VIRTUAL USB DEVICE WITH EMULATED USER INTERACTION**
MOHAMED ALJI, KHALID CHOUGDALI
- PAPER ID 41:** **VERIFYING INTEGRITY OF DEEP ENSEMBLE MODELS BY LOSSLESS BLACK-BOX WATERMARKING WITH SENSITIVE SAMPLES**
LINA LIN, HANZHOU WU
- PAPER ID 50:** **DETECTION OF NETWORK ANOMALIES WITH MACHINE LEARNING METHODS**
IHSAN RIZA KARA, ASAF VAROL
- PAPER ID 61:** **THE NECESSITY OF EMOTION RECOGNITION FROM SPEECH SIGNALS FOR NATURAL AND EFFECTIVE HUMAN-ROBOT INTERACTION IN SOCIETY 5.0**
YESİM ÜLGEN SÖNMEZ, ASAF VAROL
- PAPER ID 62:** **THE RELATIONSHIP BETWEEN TEACHER CANDIDATES' TECHNOLOGY USAGE AND ONLINE LEARNING READINESS**
SEVINÇ AY, SONGÜL KARABATAK, MURAT KARABATAK
- PAPER ID 63:** **THE RELATIONSHIP BETWEEN NOMOPHOBIA AND PERCEIVED SOCIALIZATION IN THE ONLINE LEARNING ENVIRONMENT**
SONGÜL KARABATAK, SEVINÇ AY, MURAT KARABATAK
- PAPER ID 77:** **ENERGY-AWARE ROUTING ARCHITECTURE FOR WIRELESS SENSOR NETWORKS**
AYTUG BOYACI, HASAN HUSEYİN BALIK, FİKRET ATA

11:30-12:30 **KEYNOTE SPEECH (CHAIR: ASSIST. PROF. DR. SERKAN VAROL)**

ASSIST. PROF. DR. NUNO ALBERTO FERREIRA LOPES

OVERCOMING SOCIETY CHALLENGES THROUGH THE COMBINED USE OF AI, COMPUTING POWER AND GAMES: A REVIEW OF SOME ACHIEVEMENTS ON CYBERSECURITY AND INDUSTRY CASES

12:30-14:00 **LUNCH**

14:00-15:30 WAPAIS 2022 PRESENTATIONS (ASSIST. PROF. DR. NUNO ALBERTO FERREIRA LOPES)

İSTANBUL HALL

- PAPER ID 52:** NETWORK INTRUSION DETECTION PACKET CLASSIFICATION WITH THE HIKARI-2021 DATASET: A STUDY ON ML ALGORITHMS
RUI FERNANDES, NUNO LOPES
- PAPER ID 65:** AN INTELLIGENT SYSTEM TO DETECT DROWSINESS AT THE WHEEL
ANA RITA ANTUNES, MIGUEL V. P. R. MENESES, JOAQUIM GONCALVES, ANA CRISTINA BRAGA
- PAPER ID 66:** CONTEXT-AWARE DATA AUGMENTATION FOR EFFICIENT OBJECT DETECTION BY UAV SURVEILLANCE
YURI GORDIENKO, OLEKSANDR ROKOVYI, OLEG ALIENIN AND SERGII STIRENKO
- PAPER ID 69:** HUMAN ACTIVITY RECOGNITION: A REVIEW
JOÃO PEREIRA, JOAQUIM GONÇALVES
- PAPER ID 71:** PROCESS STANDARDIZATION: THE DRIVING FACTOR FOR BRINGING ARTIFICIAL INTELLIGENCE AND MANAGEMENT ANALYTICS TO SMES
JOAQUIM P. SILVA, JOAQUIM GONCALVES
- PAPER ID 72:** NEW ONLINE REALITY
NUNO MARTINS, PEDRO COSTA, ALEXANDRE ESTEVES, TOMÁS MARTINS, SUSANA NICOLA, ALBERTO

14:00-15:30 PRESENTATIONS (CHAIR: ASSIST. PROF. DR. EMRE OLCA)

REMOTE (ZOOM: <https://us06web.zoom.us/j/5904834919?pwd=VHp3S0hISWpETzlnV1Jjdk8ydFgrdz09>)

- PAPER ID 17:** PHISHING URL CLASSIFICATION USING EXTRA-TREE AND DNN
HABIBA BOUIJJI, AMINE BERQIA, HAMADOU SALIAH-HASSAN
- PAPER ID 19:** TRANSFER LEARNING BASED CLASSIFICATION OF PLASMODIUM FALCIPARUM PARASITIC BLOOD SMEAR IMAGES
SAI DHEERAJ GUMMADI, ANIRBAN GHOSH, YESWANATH VOOTLA
- PAPER ID 21:** FUZZY LOGIC-BASED SHIITAKE MUSHROOM FARM CONTROL FOR HARVEST ENHANCEMENT
NTIVUGURUZZA JEAN DE LA CROIX, MUKANYILIGIRA DIDACIENNE, SIBOMANA LOUIS
- PAPER ID 37:** DEEP LEARNING BASED LIGHTWEIGHT MODEL FOR SEIZURE DETECTION USING SPECTROGRAM IMAGES
MOHD MAAZ KHAN, IRFAN MABOOD KHAN, OMAR FAROOQ
- PAPER ID 67:** A NOVEL DEEP FEATURE EXTRACTION ENGINEERING FOR SUBTYPES OF BREAST CANCER DIAGNOSIS: A TRANSFER LEARNING APPROACH
BILYAMINU MUHAMMAD, FATIH OZKAYNAK, ASAF VAROL, TÜRKER TUNCER
- PAPER ID 74:** TEXT CLUSTERING OF COVID-19 VACCINE TWEETS
UKWEN DAVID, MURAT KARABATAK
- PAPER ID 75:** CHEVROCRYPTO – SECURITY & CRYPTOGRAPHY BROKER
FILIPE ALVES, NUNO MATEUS-COELHO, MANUELA CRUZ-CUNHA

15:30-16:00 COFFEE BREAK

16:00-18:00 CYBER SECURITY PRESENTATIONS (CHAIR: PROF. DR. ÖZAY GÜRTÜĞ)

REMOTE (ZOOM: <https://us06web.zoom.us/j/5904834919?pwd=VHp3S0hISWpETzlnV1Jjdk8ydFgrdz09>)

- PAPER ID 07:** PROCEDURAL INFORMATION SECURITY COUNTERMEASURE AWARENESS AND CYBERSECURITY PROTECTION MOTIVATION IN ENHANCING EMPLOYEE'S CYBERSECURITY PROTECTIVE BEHAVIOUR
NORSHIMA HUMAIDI, SAIF HUSSEIN ABDALLAH ALGHAZO
- PAPER ID 27:** A DEEP LEARNING-ENHANCED BOTNET DETECTION SYSTEM BASED ON ANDROID MANIFEST TEXT MINING
SULEIMAN Y. YERIMA, YIMIN TO

