



FIRAT UNIVERSITY



SYMPOSIUM PROGRAM

JUNE 28, 2021 (MONDAY)

GMT + 3 (İSTANBUL) [Click here for current local time around the World](#)

VENUE : **PROF. DR. MUSTAFA TEMIZER CONFERENCE HALL (FIRAT UNIVERSITY)**

Join Zoom Meeting

<https://us02web.zoom.us/j/5563053023?pwd=cDdvNzFZRGlRFBmdTjZT1MvSTNOUT09>

Meeting ID: 556 305 3023 Passcode: 4GzUvd

10:00-10:45 **OPENING CEREMONY (ASSOC. PROF. DR. CIHAN VAROL)**

ASSOC. PROF. DR. FATİH ÖZKAYNAK	TERM CHAIR OF ISDFS-2021, FIRAT UNIVERSITY- TR
PROF. DR. ASAF VAROL	GENERAL CHAIR OF ISDFS, MALTEPE UNIVERSITY-TR
RAHMI AKTEPE	INFORMATICS ASSOCIATION OF TURKEY -TR
PROF. DR. ŞAHİN KARASAR	RECTOR OF MALTEPE UNIVERSITY, TR
PROF. DR. FAHRETTİN GÖKTAŞ	RECTOR OF FIRAT UNIVERSITY, TR

10:45-11:30 **KEYNOTE SPEECH (ASSOC PROF. DR. AHMET KOLTUKSUZ)**

CYBER WARFARE: CHANGING DOCTRINES OF WARFARE, FROM SUN TZU TO CYBERSPACE

11:30-12:15 **IN-PERSON AND ONLINE PRESENTATIONS (SESSION CHAIR: PROF. DR. ASAF VAROL)**

PAPER ID 46: **A NEW APPROACH TO SOCIAL ENGINEERING WITH NATURAL LANGUAGE PROCESSING: RAKE**
AYDOĞAN, AHMET FURKAN*; AN, MIN KYUNG; YILMAZ, MEHMET

PAPER ID 63: **REVIEW OF NLP- BASED SYSTEMS IN DIGITAL FORENSICS AND CYBERSECURITY**
UKWEN, DAVID OKORE*; KARABATAK, MURAT

PAPER ID 10: **EDI BASED SECURE DESING PATTERN FOR LOGISTIC AND SUPPLY CHAIN**
KARATAS, CEYHUN*; GULTEKIN, MUAZ

PAPER ID 19: **GRAPH- BASED MALWARE DETECTION USING OPCODE SEQUENCES**
GULMEZ, SİBEL*; SOGUKPINAR, İBRAHİM

12:15-14:00 **SOCIAL EVENT AT FIRAT UNIVERSITY**

14:00-15:00 **ONLINE PRESENTATIONS (SESSION CHAIR: ASSOC. PROF. DR. CIHAN VAROL)**

PAPER ID 16: **EXPLOITING VULNERABILITIES OF IP CAMERAS: LEBANON CASE STUDY**
BATHICH, PETER; MALLI, MOHAMMAD; HAZİMEH, HUSSEİN*

PAPER ID 38: [A NOVEL REVERSIBLE FRAGILE WATERMARKING IN DWT DOMAIN FOR TAMPER LOCALIZATION AND DIGITAL IMAGE AUTHENTICATION](#)
AZIZOĞLU, GÖKHAN*; TOPRAK, AHMET NUSRET

PAPER ID 58: [A COMPARATIVE STUDY ON THE DETECTION OF IMAGE FORGERY OF TAMPERED BACKGROUND OR FOREGROUND](#)
ELMACI, MEHMET*; TOPRAK, AHMET NUSRET; ASLANTAS, VEYSEL

15:00-16:30 **PANEL SPEECH (TBD INFORMATICS VISION PANEL)**

MODERATOR AND SPEAKER:

CENK TEZCAN (B-WISE CO-FOUNDER) : **BUSINESS LIFE OF THE FUTURE**

SPEAKERS :

CEMİL ŞINASI TÜRÜN : **NEW FINANCIAL SYSTEMS**

DR. ZIYA KARAKAYA : **CLOUD COMPUTING**

MURAT LOSTAR : **CYBER SECURITY**

16:30-17:15 **ONLINE PRESENTATIONS (SESSION CHAIR: PROF. DR. ASAF VAROL)**

PAPER ID 27: [A COST-EFFECTIVE SECURITY FRAMEWORK TO PROTECT MICRO ENTERPRISES: PALANTIR E-COMMERCE USE CASE](#)
MLAKAR, IZIDOR*; JERAN, PRIMOŽ; ŠAFRAN, VALENTINO; LOGOTHETIS, VANGELIS

PAPER ID 39: [THREAT LANDSCAPE EXPANSION DURING COVID-19: REMOTE INCIDENT RESPONSE HANDLING](#)
WILLIAMS, FRANK*; VAROL, CIHAN; RASHEED, AMAR A; SHASHIDHAR, NARASIMHA

PAPER ID 55: [AUTOMATED MALWARE DESIGN FOR CYBER PHYSICAL SYSTEMS](#)
TANTAWY, ASHRAF*

17:15-18:00 **KEYNOTE SPEECH (NICOLAS HUGHES)**

A TIME OF RECKONING? CHANGING REGULATORY AND JUDICIAL ATTITUDES AND THE POTENTIAL IMPACT ON DIGITAL FORENSICS

OFFLINE PRESENTATIONS

SPECIAL SESSION: P2834

PAPER ID 28: [EVALUATION OF BLOCKCHAIN TECHNIQUES TO ENSURE SECURE ACCESS ON REMOTE FPGA LABORATORIES](#)
WERNER, EMILIO*; BEREJUCK, MARCELO DANIEL D; MATIAS, JHENNIFER CRISTINE; SALIAH-HASSANE, HAMADOU

PAPER ID 59: [PREVENTION PRE-VIOLENCE IN E-LABS WITH MACHINE LEARNING: PVE](#)
AYDOGAN, AHMET*; SHASHIDHAR, NARASIMHA

CYBER SECURITY

PAPER ID 11: [BLOCKCHAIN-BASED IOT: AN OVERVIEW](#)
VAROL, ASAF; RAZA, MUHAMMAD RAHEEL*; HUSSAIN, WALAYAT

- PAPER ID 12:** [PQ-FLAT: A NEW QUANTUM-RESISTANT AND LIGHTWEIGHT AUTHENTICATION APPROACH FOR M2M DEVICES](#)
KARACAN, ENGIN*; AKLEYLEK, SEDAT; KARAKAYA, AYKUT
- PAPER ID 17:** [ANALYSIS AND MODELING OF CYBER SECURITY PRECAUTIONS](#)
DURMUŞ, OMER*; VAROL, ASAF
- PAPER ID 23:** [CLOCK GATING- ASSISTED MALWARE \(CGAM\): LEVERGING CLOCK GATING ON ARM CORTEX M* FOR ATTACKING SUBSYSTEMS AVAILABILITY](#)
RASHEED, AMAR A*; VAROL, HACER; BAZA, MOHAMED
- PAPER ID 31:** [MITRE ICS ATTACK SIMULATION AND DETECTION ON ETHERCAT BASED DRINKING WATER SYSTEM](#)
TOKER, FIRDEV S*; OVAZ AKPINAR, KEVSER; OZCELIK, IBRAHIM
- PAPER ID 32:** [CENTER WATER: A SECURE TESTBED INFRASTRUCTURE PROPOSAL FOR WASTE AND POTABLE WATER MANAGEMENT](#)
OVAZ AKPINAR, KEVSER; OZCELIK, IBRAHIM; ISKEFIYELI, MURAT; BALTA, MUSA*; TOKER, FIRDEV S
- PAPER ID 34:** [A COST BASED DYNAMIC RESPONSE METHOD FOR INTERNET OF THINGS CYBERATTACKS](#)
CHOUHAN, PUSHPINDER K*; QUIGLEY, BRONAGH; BEARD, ALFIE; CHEN, LIMING
- PAPER ID 36:** [MALWARE DETECTION AND CLASSIFICATION USING FASTTEXT AND BERT](#)
YESIR, SALIH*; SOGUKPINAR, IBRAHIM
- PAPER ID 48:** [A NOVEL RISK MITIGATION & CLOUD- BASED DISASTER RECOVERY FRAMEWORK FOR SMALL TO MEDIUM SIZE BUSINESSES](#)
SOLIS, ROBERTO*; SHASHIDHAR, NARASIMHA; VAROL, CIHAN
- PAPER ID 49:** [ANALYSIS OF NETWORK PROTOCOLS FOR SECURE COMMUNICATION](#)
ISLAM, SHEIKH ARIFUL*; CABALLERO, DAVID; GONZALEZ, FRANCISCO
- PAPER ID 53:** [A DATA MINING BASED SYSTEM FOR AUTOMATING CREATION OF CYBER THREAT INTELLIGENCE](#)
ARIKAN, SULEYMAN MUHAMMED*; ACAR, SAMI

CRYPTOGRAPHY

- PAPER ID 42:** [A SUBSTITUTION-BOX STRUCTURE BASED ON CROWD SUPPLY INFINITE NOISE TRNG](#)
IBRAHIM, HABIB*; OZKAYNAK, FATIH

DATA PRIVACY

- PAPER ID 07:** [CAPEN: CRYPTOGRAPHIC ACCUMULATOR BASED PRIVACY PRESERVING EXPOSURE NOTIFICATION](#)
OZCELIK, ILKER*

DIGITAL FORENSICS

- PAPER ID 05:** [WATERMARKING GRAPH NEURAL NETWORKS BY RANDOM GRAPHS](#)
WU, HANZHOU*; ZHAO, XIANGYU; ZHANG, XINPENG
- PAPER ID 06:** [SELECTING THE BEST FORENSIC REPORT BY USING A GROUP DECISION MAKING METHOD: A CASE STUDY ON THREE FORENSIC REPORTS](#)
AKKUZU KAYA, GULSUM*; BADWAN, ABDUL
- PAPER ID 33:** [METHOD FOR PROTECTION OF HETEROGENEOUS DATA BASED ON PSEUDO-HOLOGRAPHIC WATERMARKS](#)
VYBORNOVA, YULIYA*
- PAPER ID 35:** [DEVELOPMENT AND MAINTENANCE OF MOBILE FORENSIC INVESTIGATION SOFTWARE MODULES](#)
ARIKAN, SULEYMAN MUHAMMED*; YUREKTEN, OZGUR

COMPUTER SCIENCE

- PAPER ID 02:** [A SYMPTOM-BASED MACHINE LEARNING MODEL FOR MALARIA DIAGNOSIS IN NIGERIA](#)
BILYAMINU, MUHAMMAD*; VAROL, ASAF
- PAPER ID 18:** [SENTIMENT ANALYSIS USING DEEP LEARNING IN CLOUD](#)
VAROL, ASAF; HUSSAIN, WALAYAT; RAZA, MUHAMMAD RAHEEL*; TANYILDIZI, ERKAN
- PAPER ID 20:** [PREDICTION OF ARRHYTHMIA WITH MACHINE LEARNING ALGORITHMS](#)
GURSOY, GUNES*; VAROL, ASAF
- PAPER ID 22:** [MODELING AND FORECASTING OF TOURISM TIME SERIES DATA USING ANN-FOURIER SERIES MODEL AND MONTE CARLO SIMULATION](#)
DANBATT, SALIM JIBRIN*; VAROL, ASAF
- PAPER ID 25:** [TTSD: A NOVEL DATASET FOR TURKISH TEXT SUMMARIZATION](#)
ULKER, MEHTAP*; OZER, A. BEDRI
- PAPER ID 26:** [FUZZY RULE BASED CLASSIFICATION SYSTEM FROM VEHICLE-TO-GRID DATA](#)
AKKUZU KAYA, GULSUM*; BADWAN, ABDUL
- PAPER ID 44:** [A BRIEF SURVEY ON RANSOMWARE WITH THE PERSPECTIVE OF INTERNET SECURITY THREAT REPORTS](#)
FARHAT, DANYAL*; AWAN, MALIK SHAHZAD
- PAPER ID 50:** [DETECTION OF WEB ATTACKS VIA PART CLASSIFIER](#)
AHMED, OMAR ISKNDAR*; VAROL, CIHAN
- PAPER ID 56:** [ENTERPRISE INFORMATION SYSTEMS ENHANCEMENT: HYPERLEDGER FABRIC BASED APPLICATION](#)
BOURAS, ABDELAZIZ; GASMI, HOUSSEM; BELHI, ABDELHAK*; HAMMI, ASSAM; AOUNI, BELAID
- PAPER ID 60:** [A STUDY OF SEMICONDUCTOR DEFECTS WITHIN AUTOMOTIVE MANUFACTURING USING PREDICTIVE ANALYTICS](#)
VAROL, SERKAN; O'DOUGHERTY, PATRICK*; FERREL, KEITH
- PAPER ID 61:** [INVESTIGATION OF SELF- DIRECTED LEARNING SKILLS OF DISTANCE EDUCATION STUDENTS](#)
ALANOGLU, MUSLIM*; KARABATAK, SONGUL; KARABATAK, MURAT
- PAPER ID 62:** [PROBLEMS ENCOUNTERED IN DISTANCE TEACHING PRACTICES COURSE AND SOLUTION SUGGESTIONS](#)
ALANOGLU, MUSLIM*; KARABATAK, SONGUL; KARABATAK, MURAT
- PAPER ID 64:** [EARTHQUAKE PREDICTION BY USING TIME SERIES ANALYSIS](#)
LOK, SULTAN*; KARABATAK, MURAT
- PAPER ID 65:** [A NEW SUSTAINABLE HYBRID SOFTWARE DEVELOPMENT METHODOLOGY: FIRAT-UG](#)
ULAS, MUSTAFA*; GULER, HAKAN
- PAPER ID 66:** [SOFTWARE ENGINEERING FOR DATA MINING \(ML- ENABLE\) SOFTWARE APPLICATIONS](#)
SAEED, SABEER*; ABUBAKAR, MOHAMMED MANSUR; KARABATAK, MURAT

Consortium Members:

