IMISC
2018

5th International
Management Information Systems Conference
October 24-26, 2018   BTK Convention Center, Ankara, Turkey

Conference Program

http://2018.imisc.net

Day *1*   October 24, 2018 *Wednesday*

TIME	A	PLACE	B	PLACE	C	PLACE
09:00-09:30	*Registration*	LOBBY				
09:30-10:50	*Opening Ceremony*	ROOM #1				
11:00-11:50	*Opening Plenary* INTERNET OF THINGS	ROOM #1				
12:00-13:20	*Panel* DIGITAL TRANSFORMATION IN THE PUBLIC SECTOR	ROOM #1	*Track Session* DATA MINING AND MACHINE/ DEEP LEARNING **1**	ROOM #1		
13:20-14:20	*Lunch*					
14:20-15:40	*Panel* INDUSTRY CHALLENGE: NEXT GENERATION OF BUSINESS MODELS AND ECOSYSTEMS	ROOM #1	*Track Session* GENERAL MIS TOPICS	ROOM #2		
15:50-17:10	*Track Session* DIGITAL TRANSFORMATION **1**	ROOM #2	*Track Session* KNOWLEDGE MANAGEMENT	ROOM #3	*Track Session* INDUSTRY 4.0	ROOM #4
17:20-18:50	*Tutorial* BLOCKCHAIN FUNDAMENTALS	ROOM #3	*Workshop* R PROGRAMMING	ROOM #4		
19:00-21:00	*Conference Dinner*	BIG HALL				

09:30—10:50 **Room #1**

Opening Ceremony

Preliminary Information

The Internet of things (IoT) is the network of physical devices, vehicles, home appliances, and other items embedded with electronics, software, sensors, actuators, and connectivity which enables these things to connect, collect and exchange data, creating opportunities for more direct integration of the physical world into computer-based systems, resulting in efficiency improvements, economic benefits, and reduced human exertions.

The number of IoT devices increased 31% year-over-year to 8.4 billion in the year 2017 and it is estimated that there will be 30 billion devices by 2020. The global market value of IoT is projected to reach $7.1 trillion by 2020.

IoT involves extending Internet connectivity beyond standard devices, such as desktops, laptops, smartphones and tablets, to any range of traditionally dumb or non-internet-enabled physical devices and everyday objects. Embedded with technology, these devices can communicate and interact over the Internet, and they can be remotely monitored and controlled. With the arrival of driverless vehicles, a branch of IoT, i.e. the Internet of Vehicle starts to gain more attention.

Welcome

Opening Speakers, sorted by speaking order

Assoc. Prof. Dr. H. Kemal İlter
Conference Chair
Ankara Yıldırım Beyazıt University, Turkey

Burak Çifter
CEO
Bilge SGT, Turkey

Cenk Şen
CEO
Türksat Company, Turkey

Prof. Dr. Rafet Aktaş
Dean of the Business School
Ankara Yıldırım Beyazıt University, Turkey

Prof. Dr. Metin Doğan
Rector
Ankara Yıldırım Beyazıt University, Turkey

Dr. Ömer Fatih Sayan
Deputy Minister
Ministry of Transport and Infrastructure of the Republic of Turkey

Day *1*   11:00—11:50   Room #1

Opening Plenary

Internet of Things

Prof. Dr. George N. Prezerakos
University of Attica, Greece

Preliminary information

The Internet of things (IoT) is the network of physical devices, vehicles, home appliances, and other items embedded with electronics, software, sensors, actuators, and connectivity which enables these things to connect, collect and exchange data, creating opportunities for more direct integration of the physical world into computer-based systems, resulting in efficiency improvements, economic benefits, and reduced human exertions.

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Bio of the speaker

Dr. George N. Prezerakos was born in Athens, Greece in 1970. He holds an M.Sc. (1993) from the School of Electrical and Computer Engineering of the National Technical University of Athens (NTUA) and a Ph.D. in Software Engineering (1998) from the same school. Between 2002 and 2002 he was with Ericsson Hellas S.A. as a software engineer for Mobile Internet. In 2002, he joined the Hellenic Telecommunications and Post Commission.

In 2004, he became an Assistant Professor of Software Engineering in the Electronic Computer Systems Department of the Technical Education Institute of Piraeus. Currently, he is a Professor in the Department of Informatics and Computer Engineering at the University of West Attica. His research interests include Service Engineering, the Internet of Things (IoT) and the regulatory framework and the protection of privacy in electronic communications. Dr. Prezerakos has several papers in conferences and journals in the above areas.

Day *1*   12:00— 13:20   Room #1

Panel

Moderator

Prof. Dr. Türksel Kaya Bensghir
Ankara Hacı Bayram Veli University, Turkey

The public sector produces "public goods" for problems, even though these problems may have no known feasible solutions, and it is heavily impacted by politics and bureaucratic red tape.

Digital Transformation in the Public Sector

Guest Speakers, sorted by surname

Assoc. Prof. Dr. Naci Karkın
Pamukkale University, Turkey

M. Fatih Uluçam
Ministry of Health, Turkey

Halil Yeşilçimen
Türksat Company, Turkey

Day *1*   12:00—13:20   Room #2

Track Session

Data Mining and Machine/Deep Learning 1

Track Chair

Prof. Dr. Hasan Dağ
Kadir Has University, Turkey

Data science expresses that previous data processing applications are not sufficient to process larger and more complex data sets. The relatively recent concepts of data mining, machine learning, and deep learning offer a new set of techniques and methods. Today, researchers and companies are dealing with and experimenting with various methods of deriving value, such as machine learning, data mining, artificial intelligence, and deep learning. Data Mining and Machine / Deep Learning track aims to contribute to fields that are related to analytics of data that based on different data types. New approaches, applications, models or methods related to the topic of this track.

Papers

Evaluation of Call Center Efficiency Using Text Mining Approach

Eda Üzüm | *Boğaziçi University*
Seren Başaran | *Boğaziçi University*
Sona Mardikyan | *Boğaziçi University*

Predicting Diffusion Reach Probabilities via Representation Learning on Social Networks

Furkan Gürsoy | *Boğaziçi University*
Ahmet Onur Durahim | *Boğaziçi University*

Finding a Model that Provides High Profits with Web Usage Mining: A Case Study

Şükrü Can Şayan | *Gazi University*
Tahsin Çetinyokuş | *Gazi University*

Integration of the Google Analytics tool into the data pre-processing layer for WEB Usage Mining: A case study

Şükrü Can Şayan | *Gazi University*
Tahsin Çetinyokuş | *Gazi University*

Presentation Language of the Session   English

Day *1*   14:20—15:40   Room #1

Panel

Moderator

Prof. Dr. Alptekin Erkollar
Sakarya University, Turkey

Innovative technologies and "social" approaches getting the recognition to lead the next generation of digital business models and ecosystems.

Industry Challenge: Next Generation of Business Models and Ecosystems

Guest Speakers, sorted by surname

Zafer Babür
Turkish Airlines, Turkey

Burak Ersoy
Consultant Investor, Turkey

Cenker Özhelvacı
Iron Mountain Incorporated, Turkey

Cebrail Uçur
STM Savunma Teknolojileri Mühendislik ve Ticaret A.Ş., Turkey

Day *1*   14:20—15:40   Room #2

Track Session

General
MIS Topics 1

Information systems concept and related technologies have been evolving in several directions over the past years. New types and kinds of data, new types of applications and information systems to support them raise diverse challenges to be addressed. The so-called big data challenge, streaming data management and processing, social networks and other complex data analysis, including semantic reasoning into information systems supporting for instance trading, negotiations, and bidding mechanisms are just some of the emerging research topics. We construe management information systems broadly, including applications ranging from ebusiness to ambient intelligence, and a wide variety of technologies ranging from edge computing to wearable computers.

Papers

Using Soft Systems Methodology Approach to Improve Technical Solution Sub-process of Engineering Process in a SME: A Case Study

Sevgi Ozkan Yıldırım | *Middle East Technical University*
Bengül Bayraktaroğlu | *Middle East Technical University*

Comparing Bug Finding Tools for Java Open Source Software

Elmira Hassani Oskouei | *Yıldız Technical University*

Future Agenda of Blockchain Perceived By Three Important Communities: Academia, Enablers, Industry

Çiğdem Kılıç | *Kadir Has University*
Mehmet Nafiz Aydın | *Kadir Has University*

Understanding the Level of ICT Adoption at SMEs from the Entrepreneurship Orientation, Individual Innovativeness and ICT Literacy Perspectives

Büşra Alma Çallı | *Sakarya University*
Erman Coşkun | *Sakarya University, MBS College of Business and Entrepreneurship*

Presentation Language of the Session   English

Day *1*   15:50—17:10   Room #2

Digital Transformation 1

Track Chair

Assoc. Prof. Dr. Birgit Oberer
Sakarya University, Turkey and ETH Zurich, Switzerland

Digital transformation is the integration of digital technology into all areas of business, fundamentally changing how organizations operate and deliver value to customers. It can be seen as an accelerating transformation concerning models, processes, competencies and business activities, to gain competitive advantages. The digital transformation means that digital usages enable new types of innovation and creativity in various domains. Digital transformation focuses on business innovation, customer innovation, technology innovation, sustainable one. There are some reasons that a business may undergo a digital transformation, the most likely reason is that they have to since it is a survival issue for many. With the evolving business markets, companies that want to succeed must understand how to apply technology to support strategical decisions and realize the visions. Although digital transformation might vary widely based on organizations' specific challenges and demands, there are a few constants, such as customer experience, culture and leadership, workforce enablement, operational agility and digital technology integration. Keeping up with the rhythm of technological change is essential for professionals, that requires a focus on lifelong learning approaches and continuous update of learning content, processes and delivery approaches to delivering education and training.

Presentation Language of the Session   English

Papers

Transforming Literature-intensive Research Processes Through Text Analytics - Design, Implementation and Lessons Learned

Frank Bensberg | *Osnabrück University*
Gunnar Auth | *Hochschule für Telekommunikation Leipzig*
Christian Czarnecki | *Hochschule für Telekommunikation Leipzig*
Christopher Wörndle | *Detecon International GmbH*

An Investigation of Online Shopping Habits of University Students: Gaziantep Province Case

Zafer Kılıç | *Bezmialem Vakıf University*
Vildan Ateş | *Ankara Yıldırım Beyazıt University*

Impacts of Electronic Record Management System on Business Processes: Manisa Celal Bayar University Case

İlknur Teke | *Manisa Celal Bayar University*
Çiğdem Tarhan | *Dokuz Eylül University*

The Integrated Framework for the Examination of Airline Industry Evolution: Past, Present Analysis and Future Projections

Nagihan Doğan | *Kadir Has University*
Ebru Dilan | *Kadir Has University*
Mehmet Aydın | *Kadir Has University*

Day *1*   15:50—17:10   Room #3

Track Session

Knowledge Management

Track Chair

Prof. Dr. Sevinç Gülseçen
İstanbul University, Turkey

Knowledge Management (KM) is the process of creating, sharing, using and managing knowledge in organizations. It is a multidisciplinary approach concerned with the analysis and technical support of organizational practices. While effective knowledge management is one of the most important sources of competitive advantage, it is also a critical component of the success of contemporary organizations. All perspectives on KM share the same core components, namely: people, processes and technology. In this track, we welcome KM related papers whether they have a techno-centric focus, in order to enhance knowledge integration and creation; organizational focus, in order to optimize organization design and workflows; or people focus, where the important aspects are related to people interaction, knowledge and environmental factors.

Papers

Çölyak Hastalarının Etkin Bilgi Yönetimini Olumsuz Etkileyen Unsurların Sanal Örgütler Bağlamında Araştırılması

Murat Sakal | *TRAIS*
Soner Taslak | *Muğla Sıtkı Koçman University*

Kariyer Yolculuğunda Akıllı Bir Adım

Yasemin Özdemir | *Sakarya University*
Alpaslan Kibar | *Sakarya University*

Reflections from GDPR to Turkish Data Protection Act in the Context of Privacy Principles

Ahmet M. Geden | *Gazi University*
Türksel Kaya Bensghir | *Ankara Hacı Bayram Veli University*

A Comparative Stakeholder Analysis of ZESA

Audrey Tarisai Dumbura | *Near East University*
Tunç Durmuş Medeni | *Ankara Yıldırım Beyazıt University*

Presentation Language of the Session   Bi-lingual

Day *1*   15:50—17:10   Room #4

Industry 4.0

Track Chair

Prof. Dr. Alptekin Erkollar
Sakarya University, Turkey

Industry 4.0, referred to as the fourth industrial revolution, has exponentially grown starting from manufacturing sector, and is sweeping across industries, changing everything from production, business models, customer relations, research projects, education, regional, national and global innovation strategies. The driving force behind this development is the rapidly increasing digitization of economy and society and a growing concern with customer centricity and user-driven innovation. Industry 4.0 depends on a number of technological developments, one of them being information and communication technologies, which are used to digitize information and integrate systems at all stages of product development and service life, both inside an organization and cross-organizational. It depends on decentralization, virtualization, interoperability, real-time capability, and service orientation. Numerous industries around the world have set onto industry 4.0 in an attempt to boost competitiveness and product quality. Technology trends forming the building blocks for Industry 4.0 are big data and analytics, augmented reality, simulation, additive manufacturing, the cloud, cyber security, the (industrial) internet of things, horizontal and vertical system integration, and autonomous robots. These technologies will lead to greater efficiencies and change traditional relationships among suppliers, producers, and customers, as well as between human and machine.

Presentation Language of the Session   Bi-lingual

Papers

Endüstri 4.0'ın İnsan Kaynakları Planlaması Üzerine Etkileri

Canan Yılmaz | *Sakarya University*
Alptekin Erkollar | *Sakarya University*

ERP-Related Issues and Challenges in Turkey: An Overview from ERP Experts

Gülay Ekren | *Sinop University*
Alptekin Erkollar | *Sakarya University*
Birgit Oberer | *Sakarya University*

Internet Nesnelerinin Veri Takası ve Değer Aktarımı Üzerine Metot Önerisi

Mansur Beştaş | *Siirt University*
Uğur Yavuz | *Atatürk University*

Bir İmalat İşletmesi için Endüstri 4.0 (Dijital) Olgunluk Seviyesi Belirleme Uygulaması

Tijen Över Özçelik | *Sakarya University*
Alptekin Erkollar | *Sakarya University*
Halil İbrahim Cebeci | *Sakarya University*

Endüstri 4.0 Kapsamında Akıllı Fabrikaların İncelenmesi

M. Hanefi Calp | *Karadeniz Technical University*
Ekrem Bahçekapılı | *Karadeniz Technical University*
Muhammet Berigel | *Karadeniz Technical University*

TUT 1	17:20—18:50	Room #3

Tutorial

Blockchain Fundamentals

Tutor

Assoc. Prof. Dr. İ. Tolga Medeni
Ankara Yıldırım Beyazıt University, Turkey

A blockchain, originally block chain, is a growing list of records, called blocks, which are linked using cryptography. Each block contains a cryptographic hash of the previous block, a timestamp, and transaction data (generally represented as a merkle tree root hash).

By design, a blockchain is resistant to modification of the data. It is "an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way". For use as a distributed ledger, a blockchain is typically managed by a peer-to-peer network collectively adhering to a protocol for inter-node communication and validating new blocks. Once recorded, the data in any given block cannot be altered retroactively without alteration of all subsequent blocks, which requires consensus of the network majority. Although blockchain records are not unalterable, blockchains may be considered secure by design and exemplify a distributed computing system with high Byzantine fault tolerance. Decentralized consensus has therefore been claimed with a blockchain.

Presentation Language of the Session   Bi-lingual

WOR 1	17:20—18:50	Room #4

Workshop

R Programming

Moderator

Dr. Keziban Seçkin Codal
Ankara Yıldırım Beyazıt University, Turkey

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Presentation Language of the Session   Bi-lingual

Day *2*   ## October 25, 2018 *Thursday*

TIME	A	PLACE	B	PLACE	C	PLACE
09:00-09:30	*Registration*	LOBBY				
09:30-10:50	*Track Session* ARTIFICIAL INTELLIGENCE AND BUSINESS APPLICATIONS	ROOM #2	*Track Session* DATA MINING AND MACHINE/ DEEP LEARNING **2**	ROOM #3	*Track Session* DECISION SUPPORT SYSTEMS	ROOM #4
11:00-11:50	*Keynote Speech* LEGAL QUALIFICATION OF CRYPTOCURRENCIES	ROOM #1				
12:00-13:20	*Track Session* BIG DATA AND DATA ANALYTICS **1**	ROOM #2	*Track Session* DIGITAL TRANSFORMATION **2**	ROOM #3	*Track Session* MEDICAL INFORMATICS	ROOM #4
13:20-14:20	*Lunch*					
14:20-15:40	*Panel* MIS RESEARCH AND DISCIPLINARY DEVELOPMENT IN TURKEY	ROOM #1				
15:50-17:10	*Track Session* E-GOVERNMENT/DIGITAL GOVERNMENT AND SMART ADMINISTRATIONS	ROOM #2	*Track Session* GENERAL MIS TOPICS **2**	ROOM #3	*Track Session* SOCIAL MEDIA **1**	ROOM #4
17:20-18:50	*Tutorial* PYTHON	ROOM #3	*Workshop* BLOCKCHAIN APPLICATIONS	ROOM #4		
19:00-21:00	*Awards Ceremony*	ROOM #1				

Day 2 09:30—10:50 **Room #2**

Track Session

Artificial Intelligence and Business Applications

Track Chair

Prof. Dr. Haldun Akpınar
Marmara University, Turkey

In recent years, after many false starts in the last century, Artificial Intelligence (AI) has been sweeping into all areas of our life and opening up new frontiers in business environment. The impacts of AI are seen on every layer of many research areas or applications under the title "Advanced Analytics and Intelligent Processes".

The primary aim of this track is to provide a platform to share, present and discuss recent advancements in AI for the business world.

The selected main subject of this track is the entwining of AI, Internet of Things (IoT) or particularly Industrial Internet of Things (IIoT), cloud computing and advanced analytics. Additionally, researchers are welcome to submit papers in advanced analytics and related to the changing business landscape.

Papers

E-Ticaret Sitelerinde Müşteri Sadakatini Artırmaya Yönelik Veri Merkezli Oyunlaştırma Modelinin Oluşturulması

Can Aydın | *Dokuz Eylül University*
Aysu Erensoy | *Dokuz Eylül University*

İş Analitiğinin İşletmelerdeki Kısa ve Orta Vadede Karar Verme Mekanizmasına Olan Etkisinin Araştırılması

Murat Kılıç | *Dokuz Eylül University*
Can Aydın | *Dokuz Eylül University*

Towards a Development Framework for Intelligent Digital Mesh: Extension of Software Product Line Engineering

Murat Paşa Uysal | *Başkent University*

Bitcoin'in Türkiye Piyasasındaki Değerinin Yapay Zeka Teknikleri ile Tahmini

Furkan Atlan | *Burdur Mehmet Akif Ersoy University*
İhsan Pençe | *Burdur Mehmet Akif Ersoy University*
Melike Şişeci Çeşmeli | *Burdur Mehmet Akif Ersoy University*
Adnan Kalkan | *Burdur Mehmet Akif Ersoy University*

Presentation Language of the Session Bi-lingual

Day *2*　　　　　　　　09:30—10:50　　　　　　　　Room #3

Data Mining and Machine / Deep Learning **2**

Track Chair

Prof. Dr. Hasan Dağ
Kadir Has University, Turkey

Data science expresses that previous data processing applications are not sufficient to process larger and more complex data sets. The relatively recent concepts of data mining, machine learning, and deep learning offer a new set of techniques and methods. Today, researchers and companies are dealing with and experimenting with various methods of deriving value, such as machine learning, data mining, artificial intelligence, and deep learning. Data Mining and Machine / Deep Learning track aims to contribute to fields that are related to analytics of data that based on different data types. New approaches, applications, models or methods related to the topic of this track.

Papers

Siğil Tedavisinde Kullanılan Immunotherapy Yönteminin Uygunluğunun Bayes Yöntemi ile Tespiti

Sümeyye Çelik | *Burdur Mehmet Akif Ersoy University*
Melike Şişeci Çeşmeli | *Burdur Mehmet Akif Ersoy University*
İhsan Pençe | *Burdur Mehmet Akif Ersoy University*
Adnan Kalkan | *Burdur Mehmet Akif Ersoy University*

Veri Madenciliği Üzerine Endüstriyel Bir Durum Çalışması

Buse Türkoğlu | *Norm Civata*
Murat Komesli | *Yaşar University*
Mehmet Süleyman Ünlütürk | *Yaşar University*

Balıkçılık Endüstrisinde Kullanılan Büyüme Modellerinde Geleneksel Yaklaşımlar ile Yapay Sinir Ağlarının Yaklaşımlarının Karşılaştırılması

Recep Benzer | *National Defense University*
Semra Benzer | *Gazi University*

Presentation Language of the Session　　　　　　Turkish

Day *2*   **09:30—10:50**   **Room #4**

Track Session

Decision Support Systems 1

Track Chair

Assoc. Prof. Dr. Ersin Karaman
Atatürk University, Turkey

Effective decision making is the most important issue in businesses. Therefore, decision maker tries to consider all factors that may affect their decisions. However, this is impossible because of the cognitive limits of human beings. Also, decision makers need to have ability for the conflict resolution, to reduce risk, to manage multi-partnership, to handle successive decisions and so on. As a result, decision support systems (DSS) concept has come into use. The term is used both as a research discipline and as information systems type. As a research field DSS is defined as a "conceptual framework for a process of supporting managerial decision making, usually by modelling problems and employing quantitative models for solution analysis". On the other hand, information systems at the organization's management level that combine the data and sophisticated analytical models or data analysis tools to support semi-structured and unstructured decision making is called DSS. In this track, we plan to evaluate decision support systems from both perspectives.

Papers

Web 3.0 in Decision Support Systems

Ahmet Doğan | *Osmaniye Korkut Ata University*
İsmail Söylemez | *Abdullah Gül University*
Uğur Özcan | *Gazi University*
Selçuk Kürşat İşleyen | *Gazi University*

RTM: Interactive Estimation Tool for Modeling Real-time Wind Speed

Volkan Soner Özsoy | *Gazi University*
H. Hasan Örkcü | *Gazi University*
Hasan Bal | *Gazi University*

Transforming a Truly Traditional Dairy Product Company's Logistics and Transportation Related Decision Making Processes

Bahadır Aktaş | *Sakarya University*
Çağla Ediz | *Sakarya University*
Büşra Alma Çallı | *Sakarya University*
Erman Coşkun | *Sakarya University*

Presentation Language of the Session   English

Day *2*   11:00—11:50   Room #1

Keynote Speech

Legal Qualification of Cryptocurrencies

Mtre Sevgi Kelci
Canadian Bar Association, Canada

Bio of the speaker

Mtre Kelci is particularly involved in gaining a deeper understanding of the evolution of succession and property law within a digital context.

She represented the Chamber of Notaries of Québec as a national delegate during the XXVII International Congress of Notaries in Peru, in 2013. She also lectures, mainly through the Chamber of Notaries of Quebec, the Canadian Bar Association (CBA), the Society of Trust and Estate Practitioners (STEP) and the Université du Québec à Montréal (UQAM). She is published by JurisClasseur Québec and Éditions Yvon Blais. She is currently working on her doctoral thesis (Université de Montréal-Université Panthéon-Assas) on a topic related to the legal qualification of bitcoin.

She is;
- First Turkish civil law notary in Canada.
- Founding Title Attorney since 2009.
- Chairman of the Board of Directors of Notarius TSIN.
- Part-time professor teaching trust and succession law as to the notarial students of the University of Ottawa, Civil Law Section, at Sherbrooke University.
- Member of a disciplinary committee at the Chamber of Notaries of Québec (The Committee on Notarial Professional Practice).
- Member of the Executive Committee of the Canadian Bar Association, Section Wills, Estate and Trusts.
- Member of the Membership and Mentoring Committee of Corporate Connections II, for Montréal Chapter.

Preliminary information

A cryptocurrency (or crypto currency) is a digital asset designed to work as a medium of exchange that uses strong cryptography to secure financial transactions, control the creation of additional units, and verify the transfer of assets. Cryptocurrencies are a kind of alternative currency and digital currency (of which virtual currency is a subset). Cryptocurrencies use decentralized control as opposed to centralized digital currency and central banking systems. The decentralized control of each cryptocurrency works through distributed ledger technology, typically a blockchain, that serves as a public financial transaction database.

Bitcoin, first released as open-source software in 2009, is generally considered the first decentralized cryptocurrency.[8] Since the release of Bitcoin, over 4,000 altcoins (alternative variants of Bitcoin, or other cryptocurrencies) have been created.

Day 2   12:00—13:20   Room #2

Big Data and
Data Analytics 1

Track Chair

Assoc. Prof. Dr. Abdülkadir Hızıroğlu
İzmir Bakırçay University, Turkey

The concept of big data and analytics in different application domains have been of significant importance in the last decade. Big Data and Data Analytics track aims to contribute to the area in a multidisciplinary context covering the research perspectives including conceptual and methodological, technological, managerial and economic, as well as application domains. Towards this aim, topics from both operational and managerial aspects of analytics and big data are covered. From the operational aspect problems, issues, and challenges as well as pertaining technological solutions/models for the topics such as data crawling, data diversity and volume, data quality, data privacy and security, data preprocessing and mining of data; from the managerial aspect considerations including cost, investment, value, impact, implementation and innovation are encouraged to apply to the track.

Papers

Multi-layered Open Data Processing Model for Hazelnut Farms

Şahin Aydın | *İstanbul Ayvansaray University*
Mehmet Nafiz Aydın | *Kadir Has University*

An Illustrated Example of DEMATEL within the Context of Analytics

Keziban Seçkin Codal | *Ankara Yıldırım Beyazıt University*
Musab Talha Akpınar | *Ankara Yıldırım Beyazıt University*
Abdulkadir Hızıroğlu | *İzmir Bakırçay University*

Using Web Meta Data to Discover Patterns of User Behaviour

Weiam Suliman Elsaghair | *Kadir Has University*
Mehmet Nafiz Aydın | *Kadir Has University*

A Review of Right to Data Portability's Elements

Alp Erkmen | *Kadir Has University*
Mehmet Nafiz Aydın | *Kadir Has University*

Presentation Language of the Session   English

Day *2*　　　　　　　　12:00—13:20　　　　　　　　**Room #2**

Track Session

Digital Transformation 2

Track Chair

Assoc. Prof. Dr. Birgit Oberer
Sakarya University, Turkey, and ETH Zurich, Switzerland

Digital transformation is the integration of digital technology into all areas of business, fundamentally changing how organizations operate and deliver value to customers. It can be seen as an accelerating transformation concerning models, processes, competencies and business activities, to gain competitive advantages. The digital transformation means that digital usages enable new types of innovation and creativity in various domains. Digital transformation focuses on business innovation, customer innovation, technology innovation, sustainable one. There are some reasons that a business may undergo a digital transformation, the most likely reason is that they have to since it is a survival issue for many. With the evolving business markets, companies that want to succeed must understand how to apply technology to support strategical decisions and realize the visions. Although digital transformation might vary widely based on organizations' specific challenges and demands, there are a few constants, such as customer experience, culture and leadership, workforce enablement, operational agility and digital technology integration. Keeping up with the rhythm of technological change is essential for professionals, that requires a focus on lifelong learning approaches and continuous update of learning content, processes and delivery approaches to delivering education and training.

Presentation Language of the Session　　　　　　　　Bi-lingual

Papers

Çalışma Koşullarına Bağlı Olarak İş Yerlerinde Çalışanların Siber Zorbalığa Maruz Kalma Düzeylerinin İncelenmesi

Gülin Tuğçe Söyleyici | *Burdur Mehmet Akif Ersoy University*
Adnan Kalkan | *Burdur Mehmet Akif Ersoy University*

Dijital Dönüşümün İstihdama Etkisi: Mesleki Açıdan Fırsatlar ve Tehditler

Ebru Gökalp | *Middle East Technical University*
Mert Onuralp Gökalp | *Middle East Technical University*
Selin Çoban | *Middle East Technical University*
P. Erhan Eren | *Middle East Technical University*

Avrupa Birliği Bilgi Politikası Belgelerinin İncelenmesi Üzerine Bir Çalışma

Demet Soylu | *Ankara Yıldırım Beyazıt University*
Bülent Yılmaz | *Hacettepe University*
Tunç Durmuş Medeni | *Ankara Yıldırım Beyazıt University*

The Importance of Feature Selection Methods for the Error Prediction Process of a Digital Twin

Şebnem Özdemir | *Beykent University*
Alptekin Erkollar | *Sakarya University*
Birgit Oberer | *Sakarya University*

Day 2   **12:00 — 13:20**   **Room #4**

Track Session

Medical Informatics

Track Chair

Prof. Dr. Haldun Akpınar
Marmara University, Turkey
Dr. Adil Deniz Duru
Marmara University, Turkey

Modern information technology is an indispensable component in medicine for storing and analyzing health records. Computer science and medical professionals collaborate to develop solutions in the topic of bioinformatics, public health informatics, organizational informatics and clinical informatics. The use of medical informatics support both the clinicians and researchers in the diagnosis and treatment plans for several diseases.

From micro to macro scale, advancements in the biomedical measurement technology provide relevant information about the anatomy as well as the functionality of the human body. Machine Learning algorithms can be successfully implemented to fuse the data collected from several biomedical measurement systems and to form a decision either by fusing or comparing the obtained information. However the huge amount of medical dataset is needed to be investigated based on various algorithms in order to extract the hidden relevant information.

Papers

Merkezi Hekim Randevu Sistemi İçin Öneriler

Muhammed Çağrı Aksu | *Artvin Çoruh University*
Yıldız Ateş | *Atatürk University*
Hicran Yaman | *Atatürk University*
Ersin Karaman | *Atatürk University*

Klinik Muayane ile Tele-Tıp Uygulamasının Teşhis ve Tedavi Uyumluluk Tespiti: Web Tabanlı Özgün Yazılım Tasarımı ve Test Edilmesi

Hakan Kör | *Hitit University*
Ümran Muslu | *Hitit University*
Emre Demir | *Hitit University*
Engin Şenel | *Hitit University*

Smart Newborn: A Tool for Early Prediction of a Severe Preterm Newborn Illness

Işıl Güzey | *Trakya University*
Özlem Uçar | *Trakya University*

Presentation Language of the Session   Bi-lingual

Day 2   14:20—15:40   Room #1

Panel

Moderator

Prof. Dr. Erman Coşkun
Sakarya University, Turkey, and
MBS College of Business and Entrepreneurship, Kingdom of Saudi Arabia

Understanding the past and present situation of MIS in Turkey as a developing country will aid in better understanding of the future of the field in the country.

MIS Research and Disciplinary Development in Turkey

Guest Speakers, sorted by surname

Assoc. Prof. Dr. Mehmet Nafiz Aydın
Kadir Has University, Turkey

Prof. Dr. Nuri Başoğlu
İzmir Institute of Technology, Turkey

Prof. Dr. Türksel Kaya Bensghir
Ankara Hacı Bayram Veli University, Turkey

Assoc. Prof. Dr. Şadi Evren Şeker
İstanbul Şehir University, Turkey

Day 2   15:50—17:10   Room #2

Track Session

e-Government/Digital Government and Smart Administrations

Track Chair

Prof. Dr. Türksel Kaya Bensghir
Ankara Hacı Bayram Veli University

As governments try to transform their organizational/managerial and administrative structure and process, their services and relations with all actors based on ICT, Internet/web technology, blockchain and AI, Digital Government is playing increasingly hot topics in Public Administration field and MIS as well.

Digitization created enormous benefits for societies and economies in terms of access to public services, more efficient, transparent and responsive public administration, greater engagement of citizens in political and government affairs, and the development of knowledge-based societies and economies. However, it is also showing its dark side by increasing existing inequalities as well as by creating new ones. Examples include the explosion of people to cybercrime and loss of privacy, and the enabling of mass manipulation of people's political sentiments.

Digital Government encompasses more than just technology – it challenges the way in which public sector service providers and citizens interact. Democratic renewal, the transformation of service delivery, community leadership and citizenship integration are all key elements and Digital Government is also tightly related to legal, economical and organizational fields and as such holds a strong interdisciplinary status.

Presentation Language of the Session   Bi-lingual

Papers

A New Emergency Notification System Developed by TÜRKSAT as Part of EMYNOS Project Turkish Field Trials

Sami Yenice | *Türksat*
Mehmet AktaşYenice | *Türksat*
Fazıl Yaraşlı | *Türksat*
Tunç Durmuş Medeni | *Ankara Yıldırım Beyazıt University*
Ahmet Savaş | *Türksat*
Halil Yeşilçimen | *Türksat*

Vatandaş Odaklı Hizmet Sunumu Memnuniyet Ölçümü

İsmail Bakan | *Kahraman Maraş Sütçü İmam University*
Ahmet Hamdi Aydın | *Kahraman Maraş Sütçü İmam University*
Muhsin Kar |*Niğde Ömer Halisdemir University*
Bülent Öz | *Osmaniye Korkut Ata University*
Özkan Dalbay |*İzmir Katip Çelebi University*
Asım Balcı | *Ankara Büyükşehir Belediyesi*
Tunç Durmuş Medeni | *Ankara Yıldırım Beyazıt University*
İhsan Tolga Medeni | *Ankara Yıldırım Beyazıt University*

Integrations of Ministry of Family, Labor and Social Services: Opportunities, Difficulties and Expectations

Ali Saip Demiröz | *Ankara Yıldırım Beyazıt University*
Tunç Durmuş Medeni | *Ankara Yıldırım Beyazıt University*

Day *2*   15:50—17:10   Room #3

Track Session

General
MIS Topics 2

Information systems concept and related technologies have been evolving in several directions over the past years. New types and kinds of data, new types of applications and information systems to support them raise diverse challenges to be addressed. The so-called big data challenge, streaming data management and processing, social networks and other complex data analysis, including semantic reasoning into information systems supporting for instance trading, negotiations, and bidding mechanisms are just some of the emerging research topics. We construe management information systems broadly, including applications ranging from ebusiness to ambient intelligence, and a wide variety of technologies ranging from edge computing to wearable computers.

Papers

Oto Galericilerinin Karar Alma Süreçleri

Serhat Ömer Rençber | *Van Yüzüncü Yıl University*
Abdülkadir Özdemir | *Atatürk University*

ISO/IEC 27001 Bilgi Güvenliği Yönetim Sisteminin Kamu Kurumlarına Uygulanabilirliğinin İncelenmesi

Mehmet Tuygun | *Gazi University*

ISO27001 Bilgi Güvenliği Yönetim Sisteminde Risk Analizi

İsmail Durankaya | *Dokuz Eylül University*
Yılmaz Gökşen | *Dokuz Eylül University*
Mete Eminağaoğlu | *Dokuz Eylül University*

Kamu Kurumlarında Çalışan Bilgisayar Programcılarının Tükenmişlik Düzeylerinin Bazı Demografik Değişkenlere Göre İncelenmesi: Ankara İli Örneği

Vildan Ateş | *Ankara Yıldırım Beyazıt University*
Güven Yıldız | *Ministry of Health*

Presentation Language of the Session   Turkish

Day *2*   15:50—17:10   Room #4

Track Session

Social
Media **1**

Track Chair

Prof. Dr. Üstün Özen
Atatürk University, Turkey

In recent years, social media have had a very serious impact on the socialization of individuals, cultural interaction, firms' understanding of doing business, politics, the economy and many other areas. It is a fact that social media influences and directs society in many ways. It is observed that social media is playing an important role in directing politics and mobilizing masses in many countries. Companies use social media as an effective tool to promote and market their products and to attract new customers. They are developing new strategies for improving quality of goods and services through feedback from their customers. Through social networks, people can reconnect with old friends, acquaintances, make new friendships, exchange ideas, and share many of their interests. In addition, through social networks, people are actively using social networks to improve their careers and find new business and job opportunities.
Besides, we are also observing that social networks bring many problems along with. People can be exposed to cyber harassment and bullying in social networks, people's accounts can be stolen and used for malicious purposes, and information about private life can be revealed.
To summarize, social networks have led to revolutionary changes in our individual, social and business life. For this reason, it is also of great importance to investigate and research the reflections of these changes and innovations brought by social media.

Presentation Language of the Session   English

Papers

A Meta-Analysis of Social Media & Learning Studies in Educational Research

Birgül Kutlu Bayraktar | *Boğaziçi University*
Burç Çeken | *Boğaziçi University*
Meltem Mutlutürk | *Boğaziçi University*
Canan Türkmen | *Boğaziçi University*

A Community-aware Network Growth Model for Synthetic Social Network Generation

Furkan Gürsoy | *Boğaziçi University*
Bertan Badur | *Boğaziçi University*

LinkedIn for Recruitment: An Examination of Recruiters Use of the "Apply" and "Easy Apply" Features

Birgül Kutlu Bayraktar | *Boğaziçi University*
Ala Rabea | *Boğaziçi University*
Chioma Rita Udeozor | *Boğaziçi University*

SBM Based Community Detection: School Friendship Network

Ziya Nazım Perdahcı | *Mimar Sinan Fine Arts University*
Mehmet Nafız Aydın | *Kadir Has University*
Kenan Kafkas | *Kadir Has University*

Day *2*   17:20—18:50   Room #3

Tutorial

Python Fundamentals

Tutor

Kemalcan Bora
Bilge Adam, Turkey

Python is an interpreted high-level programming language for general-purpose programming. Created by Guido van Rossum and first released in 1991, Python has a design philosophy that emphasizes code readability, notably using significant whitespace. It provides constructs that enable clear programming on both small and large scales. In July 2018, Van Rossum stepped down as the leader in the language community after 30 years.

Python features a dynamic type system and automatic memory management. It supports multiple programming paradigms, including object-oriented, imperative, functional and procedural, and has a large and comprehensive standard library.

Python interpreters are available for many operating systems. CPython, the reference implementation of Python, is open source software and has a community-based development model, as do nearly all of Python's other implementations. Python and CPython are managed by the non-profit Python Software Foundation.

Presentation Language of the Session   Turkish

17:20—18:50   Room #4

Workshop

Blockchain Applications

Moderator

Mustafa Fael Aliwat
Icredible Technology, Turkey

Blockchain technology can be integrated into multiple areas. The primary use of blockchains today is as a distributed ledger for cryptocurrencies, most notably bitcoin. There are a few operational products maturing from proof of concept by late 2016. Most cryptocurrencies use blockchain technology to record transactions. For example, the bitcoin network and Ethereum network are blockchain-based.

Blockchain-based smart contracts are proposed contracts that could be partially or fully executed or enforced without human interaction. One of the main objectives of a smart contract is automated escrow. An IMF staff discussion reported that smart contracts based on blockchain technology might reduce moral hazards and optimize the use of contracts in general. But "no viable smart contract systems have yet emerged." Due to the lack of widespread use their legal status is unclear.

Blockchain technology can be used to create a permanent, public, transparent ledger system for compiling data on sales, tracking digital use and payments to content creators, such as wireless users or musicians.

Presentation Language of the Session   Bi-lingual

Day *2*   **19:00—21:00**   **Room #1**

Awards Ceremony

IMISC 2018 Awards

The IMISC 2018 Award recognizes individuals who contribute to IMISC Series and MIS Field in Turkey. Awards will be presented in two categories.

MIS Field Category

Best paper

Best presentation

Best review

Influence Category

Influencer

MIS Appreciation Awards

The MIS Appreciation Award recognizes individuals who contribute to the MIS Department of Ankara Yıldırım Beyazıt University in two categories.

Support Category

Supporter

Impact Category

Impactor

Day *3*

October 26, 2018 *Friday*

TIME	A	PLACE	B	PLACE	C	PLACE
09:00-09:30	*Registration*	**LOBBY**				
09:30-10:50	*Track Session* BIG DATA AND DATA ANALYTICS **2**	**ROOM #2**	*Workshop* JUNIOR FACULTY WORKSHOP	**ROOM #3**		
11:00-11:50	*Workshop (Cont.)* JUNIOR FACULTY WORKSHOP	**ROOM #3**	*Workshop* FREETHINKING ON MIS EXERCISES	**ROOM #4**		
12:00-13:20	*Track Session* SOCIAL MEDIA **2**	**ROOM #2**	*Track Session* GENERAL MIS TOPICS **3**	**ROOM #3**		
13:20-14:20	*Lunch*					
14:20-15:40	*Panel* MIS RESEARCH, METHODS, AND THEORIES	**ROOM #1**	*Track Session* MIS IN MILITARY	**ROOM #2**		
15:50-17:10	*Webinar* PRACTICES OF ICT-SUPPORTED NON-FORMAL METHODS FOR CITIZEN LEARNING AND PARTICIPATION	**ROOM #2**	*Track Session* DECISION SUPPORT SYSTEMS **2**	**ROOM #3**	*Track Session* DATA MINING AND MACHINE/ DEEP LEARNING **3**	**ROOM #4**
17:20-18:50	*Meeting (Subject to change)* IMISC SERIES ADVISORY COMMITTEE MEETING	**ROOM #4**				

Day 3   09:30—10:50   **Room #2**

Track Session

Big Data and Data Analytics 2

Track Chair

Assoc. Prof. Dr. Abdülkadir Hızıroğlu
İzmir Bakırçay University, Turkey

The concept of big data and analytics in different application domains have been of significant importance in the last decade. Big Data and Data Analytics track aims to contribute to the area in a multidisciplinary context covering the research perspectives including conceptual and methodological, technological, managerial and economic, as well as application domains. Towards this aim, topics from both operational and managerial aspects of analytics and big data are covered. From the operational aspect problems, issues, and challenges as well as pertaining technological solutions/models for the topics such as data crawling, data diversity and volume, data quality, data privacy and security, data preprocessing and mining of data; from the managerial aspect considerations including cost, investment, value, impact, implementation and innovation are encouraged to apply to the track.

Papers

Dijital Bağımlılık ile Mücadelede Sosyal Bilişimin Rolü

Esra Kahya Özyirmidokuz | *Erciyes University*
Betül Akpınar Karakaş | *Erciyes University*

Büyük Veri Çağında İşletmelerde Veri Bilimi

Mert Onuralp Gökalp | *Middle East Technical University*
Kerem Kayabay | *Middle East Technical University*
Selin Çoban | *Middle East Technical University*
Yücelen Bahadır Yandık | *Middle East Technical University*
P. Erhan Eren | *Middle East Technical University*
Altan Koçyiğit | *Middle East Technical University*

Effects of Liberalization on Electricity Prices: Empirical Analysis of Turkey Electricity Market after reforms

Ergün Yükseltan | *Kadir Has University*
Mehmet Nafiz Aydın | *Kadir Has University*

Managing Big Data: A Research on Adoption Issues

Naciye Güliz Uğur | *Sakarya University*
Aykut Hamit Turan | *Sakarya University*

Presentation Language of the Session   Bi-lingual

Day *3*   09:30—10:50   Room #3

Workshop

The Junior Faculty Workshop consists of speeches and interactive sessions built around issues related to becoming a successful member of the academia. MIS senior faculty from universities around Turkey will lead sessions. Each participant will have the opportunity to interact with senior faculty and to share their experiences, thoughts, and concerns about developing a career in the academy. Only faculty with PhD degree or who has passed qualifying exam, working as assistant professor, instructor or research assistant in universities can attend the workshop.

Discussion Topics

MIS in the World
MIS in Turkey
MIS as an Academic Career
Publishing in MIS Journals
MIS Applications

Junior Faculty Workshop

Guest Speakers, sorted by surname

Prof. Dr. Haldun Akpınar
Marmara University, Turkey

Prof. Dr. Sevinç Gülseçen
İstanbul University, Turkey

Assoc. Prof. Dr. Birgit Oberer
Sakarya University, Turkey and ETH Zurich, Switzerland

Prof. Dr. Üstün Özen
Atatürk University, Turkey

Prof. Dr. Vahap Tecim
Dokuz Eylül University, Turkey

Day *3*   **11:00—11:50**   Room #3

Workshop

Freethinking on MIS Exercises

Structure of this workshop, Idea Tray, is developed by TÜSSİDE. Idea Tray is a group activity like brainwriting and nominal group techniques. We will try to reveal some answers for several real world problems with the MIS perspective. Seniors will lead session and each participant will have the opportunity to interact with other participants as well as the moderators to share their experiences, thoughts, and concerns about problem solving and freethinking mothods on MIS-related problems.

Guest Moderators and Speakers, sorted by surname

Dr. Nusret Güçlü
Stratek, Turkey

Prof. Dr. Abdülkadir Varoğlu
Başkent University, Turkey

Discussion Topics

Idea Tray Technique
Strategic Viewpoint on MIS
MIS Case Studies
Real World MIS Examples
Solving Real Life MIS Problems

Day *3*   12:00—13:20   Room #2

Track Session

Social Media 2

Track Chair

Prof. Dr. Üstün Özen
Atatürk University, Turkey

In recent years, social media have had a very serious impact on the socialization of individuals, cultural interaction, firms' understanding of doing business, politics, the economy and many other areas. It is a fact that social media influences and directs society in many ways. It is observed that social media is playing an important role in directing politics and mobilizing masses in many countries. Companies use social media as an effective tool to promote and market their products and to attract new customers. They are developing new strategies for improving quality of goods and services through feedback from their customers. Through social networks, people can reconnect with old friends, acquaintances, make new friendships, exchange ideas, and share many of their interests. In addition, through social networks, people are actively using social networks to improve their careers and find new business and job opportunities.

Besides, we are also observing that social networks bring many problems along with. People can be exposed to cyber harassment and bullying in social networks, people's accounts can be stolen and used for malicious purposes, and information about private life can be revealed.

To summarize, social networks have led to revolutionary changes in our individual, social and business life. For this reason, it is also of great importance to investigate and research the reflections of these changes and innovations brought by social media.

Presentation Language of the Session   Turkish

Papers

Gençler Arasında Sosyal Medya Kullanım Karakteristikleri

Reyhan Başbayram | *Sakarya University*
Aykut Hamit Turan | *Sakarya University*

Bir Bölgenin Destinasyon İmajı ve Sosyal Ağların Reklam için Etkin Kullanımı: İzmir Sığacık Örneği

Kutan Koruyan | *Dokuz Eylül University*
Emre Karagöz | *Dokuz Eylül University*

Mobil Sosyal Ağlar Üzerine Küresel Ölçekte Yapılan Yayınların Değerlendirilmesi: Bilimetrik Bir Araştırma

Mehmet Cem Bölen | *Atatürk University*
Muhammet Damar | *Dokuz Eylül University*
Güzin Özdağoğlu | *Dokuz Eylül University*
Aşkın Özdağoğlu | *Dokuz Eylül University*

Stokastik Aktör Bazlı Model Yardımıyla Sosyal Ağ Dinamiklerinin Belirlenmesi

Keziban Seçkin Codal | *Ankara Yıldırım Beyazıt University*
Erman Coşkun | *Sakarya University*

Day 3   **12:00—13:20**   **Room #3**

Track Session

General
MIS Topics 3

Information systems concept and related technologies have been evolving in several directions over the past years. New types and kinds of data, new types of applications and information systems to support them raise diverse challenges to be addressed. The so-called big data challenge, streaming data management and processing, social networks and other complex data analysis, including semantic reasoning into information systems supporting for instance trading, negotiations, and bidding mechanisms are just some of the emerging research topics. We construe management information systems broadly, including applications ranging from ebusiness to ambient intelligence, and a wide variety of technologies ranging from edge computing to wearable computers.

Papers

Bakış Takibi ile E-Öğrenme Materyalinde Konu Odağı ve Öğrenci Bakış Reflekslerinin İlgisini Değerlendirme

Cem Turan | *Gelişim University*
Zerrin Ayvaz Reis | *İstanbul University–Cerrahpaşa*
Sevinç Gülseçen | *İstanbul University*

Yeşil Bilgi İşlem Bağlamında Kampüs Ağlarında Enerji Tüketiminin İzlenmesi

Abdülkadir Özdemir | *Atatürk University*
Aydın Koçak | *Atatürk University*

Uzaktan Eğitimde Çevrimdışı Sertifika Programları için Sistem Tasarımı

Muhammet Berigel | *Karadeniz Technical University*
M. Hanefi Calp | *Karadeniz Technical University*
Ekrem Bahçekapılı | *Karadeniz Technical University*

Faturanın Kağıttan Elektroniğe Dönüşüm Süreci: Bir Gıda Sektörü Uygulaması

Hakan Aşan | *Dokuz Eylül University*
Onur Doğan | *Dokuz Eylül University*
Yılmaz Gökşen | *Dokuz Eylül University*

Presentation Language of the Session   Turkish

Day *3*   **14:20—15:40**   **Room #1**

Panel   **MIS Research, Methods, and Theories**

Moderator

Assoc. Prof. Dr. Abdülkadir Hızıroğlu
İzmir Bakırçay University

Guest Speakers, sorted by surname

Prof. Dr. Hasan Dağ
Kadir Has University

Assoc. Prof. Dr. H. Kemal İlter
Ankara Yıldırım Beyazıt University

Prof. Dr. Çetin Önder
Social Sciences University of Ankara

MIS researchers use various research methods and theoretical viewpoints to explore a fact or event of scientific interest.

Day *3*   12:00—13:20   Room #3

Track Session

MIS in Military

Track Chair

Dr. Recep Benzer
National Defense University, Turkey
Prof. Dr. Alptekin Erkollar
Sakarya University

Management Information Systems is a trigger scientific area for all aspects of life. From the business point of view, the military area is an important sector for the using of MIS. This is not only important for decisions or correct behavior of systems but regarding answer speed and connectivity with other systems. Today's military operations are similar to business systems with more complexity and more risk factors. Therefore there are implemented many software applications for a different area in the military. On the other hand, military uses a standard application as well, such as ERP, HR or inventory control.

Many operations research and planning systems were firstly implemented in the military area and then in business or industry areas. Military applications are a trigger for many areas. Today applications are the same with the using of the internet or big data, and the military is a trigger for other sectors again. This trigger can be interpreted regarding business models, concepts, national and global innovation strategies and education. The central aspect today is digitalization.

Presentation Language of the Session   Bi-lingual

Papers

An Application of Artificial Neural Network Based Intrusion Detection System(s)

Salih Erdem Erol | *Gazi University*
Recep Benzer | *National Defense University*

Siber Güvenlik Alanında Derin Öğrenme Yöntemlerinin Kullanımı

Muhammed Ali Koşan | *Gazi University*
Recep Benzer | *National Defense University*

Electronic Warfare and Cyber Warfare During the Time of Computers

Gökhan Küçükayan, *STM*
Hüseyin Aslanoğlu, *STM*
Recep Benzer | *National Defense University*

Technological Management: A Case Study of Lane Engineering

Tinotenda Chiganze, *Near East University*
Tunç Durmuş Medeni, *Ankara Yıldırım Beyazıt University*

The Critical Success Factors for Manufacturing Execution Systems Adoption in the Defense Industry of Turkey: An Industrial Case Study

Hasan Yavuz | *Roketsan A.Ş.*

Day *3*   15:50—17:10   **Room #4**

Webinar

Moderator

Assoc. Prof. Dr. Tunç Durmuş Medeni
Ankara Yıldırım Beyazıt University

Use of non-formal methods for the development of citizens and improvement of their lives has been an appealing topic recently, mostly addressed by numerous recent academic research and practical projects such as EduCitizens. As a dissemination activity of EduCitizen project, this special session will bring cases from project partners that represent different EU countries.

While Smart practices is an open concept and has an evolving definition, for the sake of this special session in accordance with the IMICS2018, it will be considered as proven best practices that directly utilize or indirectly benefit from different (simple or sophisticated) information and communication technologies (ICTs). In accordance with the concept of the session ICT will also be used for the delivery of the speeches.

Practices of ICT-Supported Non-Formal Methods for Citizen Learning and

Guest Speakers, sorted by surname

Claudia Ferreira
FAJDP, Portugal

Petronela Bordeianu
Map Me Happy and EGEA, Holland

Angela Marongiu
Mina Vaganti NGO, Italy

Day *3*   15:50—17:10   Room #2

Track Session

Decision Support Systems **2**

Track Chair

Assoc. Prof. Dr. Ersin Karaman
Atatürk University, Turkey

Effective decision making is the most important issue in businesses. Therefore, decision maker tries to consider all factors that may affect their decisions. However, this is impossible because of the cognitive limits of human beings. Also, decision makers need to have ability for the conflict resolution, to reduce risk, to manage multi-partnership, to handle successive decisions and so on. As a result, decision support systems (DSS) concept has come into use. The term is used both as a research discipline and as information systems type. As a research field DSS is defined as a "conceptual framework for a process of supporting managerial decision making, usually by modelling problems and employing quantitative models for solution analysis". On the other hand, information systems at the organization's management level that combine the data and sophisticated analytical models or data analysis tools to support semi-structured and unstructured decision making is called DSS. In this track, we plan to evaluate decision support systems from both perspectives.

Papers

Topsis, Moora ve Copras Tekniklerine Dayalı Etkin Sunucu Yönlendirme Sistemi: Mobil Uygulama

Lütfiye Özge Oral | *Dokuz Eylül University*
Emre Karagöz | *Dokuz Eylül University*
Vahap Tecim | *Dokuz Eylül University*
Ahmet Volkan Ergül | *Dokuz Eylül University*

İnteraktif Memnuniyet Değerlendirme Sistemi Mobil Kampüs

Emre Karagöz | *Dokuz Eylül University*
Cem Yıldız | *Dokuz Eylül University*
Vahap Tecim | *Dokuz Eylül University*

Analitik Hiyerarşi Prosesi Kullanarak Kripto Para Seçimindeki Faktörlerin Belirlenmesi Üzerine Bir Uygulama

Umut Can Genç | *Atatürk University*
Doruk Ayberkin | *Bayburt University*
Ersin Karaman | *Atatürk University*
Üstün Özen | *Atatürk University*

Karar Verme Yöntemleri ARAS ve TOPSIS ile Besin Tercihlerine Yönelik WEB Tabanlı Uygulama

Tolga Pelitli | *Dokuz Eylül University*
Emre Karagöz | *Dokuz Eylül University*
Demet Özbek | *Dokuz Eylül University*
Kaan Yaralıoğlu | *Dokuz Eylül University*

Presentation Language of the Session   Turkish

Day *2*   15:50—17:10   Room #3

Track Session

Data Mining and Machine / Deep Learning 3

Track Chair

Prof. Dr. Hasan Dağ
Kadir Has University, Turkey

Data science expresses that previous data processing applications are not sufficient to process larger and more complex data sets. The relatively recent concepts of data mining, machine learning, and deep learning offer a new set of techniques and methods. Today, researchers and companies are dealing with and experimenting with various methods of deriving value, such as machine learning, data mining, artificial intelligence, and deep learning. Data Mining and Machine / Deep Learning track aims to contribute to fields that are related to analytics of data that based on different data types. New approaches, applications, models or methods related to the topic of this track.

Papers

Derin Öğrenme ile Görüntü Kümeleme

Ömer Faruk Akmeşe | *Hitit University*
Hasan Erbay | *Hitit University*
Hakan Kör | *Hitit University*

K-Means vs. Fuzzy C-Means: A Comparative Analysis of Two Popular Clustering Techniques on the Featured Mobile Applications Benchmark

Tuğrul Cabir Hakyemez | *Sakarya University*
Aysun Bozanta | *Boğaziçi University*
Mustafa Coşkun | *Boğaziçi University*

A New Approach to Development of Recommendation Systems with Opinion Mining on Turkish User Reviews

Tayfun Yalçınkaya | *Kadir Has University*
Hasan Dağ | *Kadir Has University*

Presentation Language of the Session   Bi-lingual

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