



11th International Symposium on Telecommunication



Communication in the Age of Artificial Intelligence
October 9-10, 2024

In The Name Of God

Symposium Program



11th International Symposium on Telecommunication

Communication in the Age of Artificial Intelligence

October 9-10, 2024
(Hybrid Symposium)



Welcome Message from the General Chair of the 11th International Symposium on Telecommunications (IST2024)



It is my great pleasure to welcome you to the International Symposium on Telecommunications (IST2024), taking place at ICT Research Institute (formerly known as Iran Telecommunication Research Center, ITRC) in Tehran, Iran, on October 9-10, 2024. It is a true honor and privilege to serve as the General

Chair of this symposium.

Over the past years, IST has provided a platform for researchers and specialists to explore the expansive landscape of communications, research, and technology. This year, the program spans six days, including four days of thematic workshops followed by two days of the main symposium. With six keynote presentations and two panel discussions, there will be ample opportunities for engaging discussions, debates, and the exchange of ideas among participants. The symposium is organized as a set of tracks covering Wireless Communication, Network Communications, Fields and Waves, Security Issues, Signal, Image and Video Processing, and Web Intelligence issues.

This event would not have been possible without the enthusiastic efforts of many colleagues. I would like to express my gratitude to the Technical Program Committee (TPC) Chairs and Organizing Committee Chairs for their invaluable contributions in assembling a high-quality program.

A symposium of this scale relies on the contributions of numerous volunteers, and I would like to acknowledge the hard work of our TPC members and referees during the review process. We are



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grateful to the IST steering committee for their vision and leadership. Special thanks to our keynote speakers—**Dr. Seizo Onoe, Dr. Al Bastaki, Dr. Salehi, Dr. Khalaj, Dr. Aydin, Dr. Ma**—as well as invited speakers **Dr. Maham, Dr. Mohammadpour Aghdam, Dr. Taghiyareh, Dr. Nayyeri, Dr. Mirmohseni, Dr. Aliakbarian, Dr. Tadayon, and Dr. Ahmadi**—and all the panelists for sharing their insights on current research topics.

We also thank all the authors who entrusted us with their work, along with the International Liaison Chairs, Publications Chairs, Workshops & Tutorials Chairs, Industry and University Liaison Chair, Logistics & Financial Support chairs, Public Relations chair and committee, Web Services chair and committee, and Secretariat and organizing staff. We appreciate the support of our sponsors, especially the IEEE Communications Society.

We look forward to exciting days filled with insightful presentations, discussions, and the sharing of technical ideas with colleagues from around the world. We hope you find the symposium both enjoyable and valuable. Thank you for attending, and wish you a fruitful symposium.

S. Mohammad Razavizadeh
General Chair, IST2024



Message from the Technical Program Committee Chair of the 11th International Symposium on Telecommunications (IST2024)



The IST2024 Symposium, held at the ICT Research Institute (formerly the Iran Telecommunication Research Center, ITRC) in Tehran from October 9-10, 2024, serves as a global reference point for disseminating high-quality research across all aspects of telecommunications, fostering interaction and

the exchange of ideas.

We are pleased to report that the symposium attracted significant interest from researchers, receiving over 244 submissions across four tracks. The 59 members of the Technical Program Committee worked diligently and responsibly under tight deadlines, providing at least four reviews for each paper, which formed the basis for the final selection. This rigorous review process resulted in the acceptance of 69 oral papers and 75 poster presentations. Additionally, to ensure participants benefit from further valuable research, seventeen workshops were accepted for presentation beside the mail stream of the symposium. The IST2024 program spans six days. The four days are dedicated to high-quality workshops, while the symposium is followed by two days of the main program. With four parallel sessions a day, six keynote presentations from world-renowned researchers and two panel discussions. We extend our heartfelt gratitude to all authors who entrusted us with their work; without their contributions, the symposium would not be possible. The successful outcome of this event is a testament to the dedication and hard work of many colleagues. Special thanks go to the track chairs, track editors, workshop chairs, members of the Technical Program Committee, and referees for their thorough reviews and commitment to maintaining high standards. At last, we are honored to express our special appreciation and gratitude for the invaluable and continuous



efforts of two esteemed scientists, **Prof. Ahmad Khademzadeh** and the late **Prof. Kambiz Badie**, who have always played a pivotal role in advancing the goals and progress of IST. These two distinguished professors have been among the founders of IST, and over the years, they have played various positions, such as scientific and executive committee chairs. The efforts and valuable services of these individuals have always served as a model and inspiration for all of us, and their names and memories will always be cherished.

Table 1- Status of Received Papers

No	Track	Scopes	Oral Accepted	Poster Accepted	Received	Oral Paper Acceptance Rate (%)
1	Future Networks, Systems & Technologies	5G	36	36	122	30
		Active and Passive Devices and Components				
		AIEnabled Networks				
		Antennas and Propagation, Millimeter Wave & Terahertz Technologies				
		Blockchain/SDN/NFV				
		Connected Networks				
		Future Constellations Services				
		Infrastructure Protection and Emergency Communication				
		Internet (Web 3.0 and Beyond)				
		Metamaterials, Meta Surfaces and Reconfigurable Antennas & Devices for 5G/6G				
Novel AIbased Architectures, Frameworks, User Applications and Testbeds for 5G/6G						
Novel Quantumbased Architectures, Frameworks, User Applications and Testbeds for 5G/6G						



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No	Track	Scopes	Oral Accepted	Poster Accepted	Received	Oral Paper Acceptance Rate (%)
		Optical Networks and Systems				
		Photonic Networks				
		QoS Management (AI and Automation in Network and Service Management)				
		Quantum Communications				
		Satellite and Space Communications				
		Satellite Constellations and Upcoming Direct to Cell Services				
		Satellite Navigation and LEO Constellations Navigation Services				
		Signal Detection/Processing for Communications				
		Smart Grid Communications				
		Wireless Communications and Mobile Networks				
		Active and Passive Devices and Components				
2	Services, Platforms & Devices	AI Applications in Healthcare, Education, Finance, etc	19	25	74	25
		AIEnabled Services				
		AR/VR/XR				
		Cloud, Edge and Quantum Computing				
		Data Analytics/Open Data Digital Platforms/social media				
		IoT/Industrial IoT				
		Large Language Model (LLM)				
AI Applications in Healthcare, Education, Finance, etc						
3	Empowerment & Enabling Environment	AI for Sustainable Development	9	10	26	35
		Digital Economy				
		Digital Transformation				



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No	Track	Scopes	Oral Accepted	Poster Accepted	Received	Oral Paper Acceptance Rate (%)
		Economical, Social and Technological Analysis of AI				
		Employment and Skill Development				
		Innovation and Technology Management				
		Legal, Ethical and Regulatory Considerations				
		Strategies for Migration to Future Networks and Services				
4	Security	Cloud Computing and Big Data Infrastructure Security				
		Cyberspace Security				
		Data Protection, Privacy and User Security				
		Emerging Technologies Security (such as AI, Quantum computing)	5	4	22	23
		Standardization Strategy and Coordination Security				
		Telecommunication Services, IoT and AI Security				
	Total		69	75	244	30

Table 2- Status of Received Workshops

Number of workshop proposals received	30
Number of accepted workshops	17

We hope that our collective efforts stimulate further progress in this sphere of activity with strengthened determination at national and international levels.

Alireza Yari
Technical Program Committee Chair

Schedule





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October 9-10, 2024



Registration 07:30-18:00

Date: October 9, 2024 (18 Mehr 1403)

Executive Committee Chair
Time: 08:15-08:30 (Tehran Time, +03:30 GMT)



Welcome Address by
Dr. Hassan Yeganeh
Venue: Main Hall, ICT Research Institute, Tehran, Iran



Keynote Speakers
Time: 08:30-09:00 (Tehran Time, +03:30 GMT)



Title of Speech: Role of AI and Large Language Models in Telecom Evolution
Dr. Babak Khalaj
Venue: Main Hall, ICT Research Institute, Tehran, Iran



Keynote Speakers
Time: 09:00-09:30 (Tehran Time, +03:30 GMT)



Title of Speech: Towards All-Quantum Internet Communication Systems and Networks
Dr. Jawad A. Salehi
Venue: Main Hall, ICT Research Institute, Tehran, Iran



Invited Speaker
Time: 09:30-10:00 (Tehran Time, +03:30 GMT)



Title of Speech: Non-Terrestrial Networks (NTN) Over Millimeter-Wave Bands
Dr. Behrouz Maham
Venue: Main Hall, ICT Research Institute, Tehran, Iran



Keynote Speakers
Time: 10:00-10:30 (Tehran Time, +03:30 GMT)



Title of Speech: On the Complex Discrete Wavelet Transform of Nonstationary Complex Signals Within Stroke Research Context
Dr. Nizamettin Aydin
Venue: Main Hall, ICT Research Institute, Tehran, Iran



10:30-10:45 Break

CT1 10:45-12:15
Signal Detection/ Processing for Communications
1102, 1156, 1216, 1159 (Main hall)


CT2 10:45-12:15
Optical Networks and Systems
1086, 1070, 1214, 1158, 1065 (H1)



ST1 10:45-12:15
Digital Economy/ Transformation & Sustainable Development
1160, 1005, 1231, 1226, 1099 (H2)

IT1 10:45-12:15
Services and Platforms
1020, 1051, 1009, 1227, 1248 (H3)

Poster Presentation 10:45-12:15
Poster Session 1 (H4)



Future Networks, Systems & Technologies part 1 - Security
1147, 1193, 1201, 1243, 1004, 1015, 1027, 1028, 1038, 1054, 1057, 1060, 1063, 1066, 1072, 1081, 1083, 1089, 1092, 1098, 1101

12:15-14:00 Lunch

14:00-14:10 Opening Remarks

Technical Program Committee Chair
Time: 14:20-14:30 (Tehran Time, +03:30 GMT)



TPC report by TCP Chair
Dr. Alireza Yari
Venue: Main Hall, ICT Research Institute, Tehran, Iran



Symposium Chair
Time: 14:20-14:30 (Tehran Time, +03:30 GMT)

Inaugural Address by Conference Chair
Dr. S. Mohammad Razavizadeh
Venue: Main Hall, ICT Research Institute, Tehran, Iran




Keynote Speaker
Time: 14:30-15:00 (Tehran Time, +03:30 GMT)

Title of Speech: Security Enhancements for 5G Wireless Networks
Mr. Seino Onoe
Venue: Main Hall, ICT Research Institute, Tehran, Iran




Keynote Speaker
Time: 15:00-15:30 (Tehran Time, +03:30 GMT)

Title of Speech: Disruptive Technology in the 4th Industrial Revolution and Beyond
Dr. Eesa Mohammed Albastaki
Venue: Main Hall, ICT Research Institute, Tehran, Iran




Honorary chair
Time: 15:30-16:00 (Tehran Time, +03:30 GMT)

Address by Minister of ICT
Dr. Sattar Hashemi
Venue: Main Hall, ICT Research Institute, Tehran, Iran




16:00-16:30 Break

Invited Speaker
Time: 16:30-17:00 (Tehran Time, +03:30 GMT)

Title of Speech: BTS Antennas and its Network Requirements in 6G and Beyond
Dr. Karim Mohammadpour-Aghdam
Venue: Main Hall, ICT Research Institute, Tehran, Iran




Panel 1
17:00-18:30 (Tehran Time, +03:30 GMT)

The Role of AI in Providing Novel Services in ICT Industry and ICT Governance (main hall)



NOT: All times are based on Iran Standard Time +3:30 GMT

IST'2024 Schedule



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Date: October 10, 2024 (19 Mehr 1403)

Registration 07:30-18:00

Keynote Speakers

Time: 08:15-08:45 (Tehran Time, +03:30 GMT)



Title of Speech: Security Enhancements for 5G Wireless Networks

Dr. Maode Ma

Venue: Main Hall, ICT Research Institute, Tehran, Iran



CT3 08:45-10:15

Wireless Communications and Mobile Networks
1053, 1117, 1122, 1169, 1152, 1141 (Main hall)

ST2 08:45-10:15

Legal, Ethical and Regulatory – Innovation – Strategy
1138, 1085, 1021, 1137 (H1)

CT4 08:45-10:15

Special Topics in Electromagnetic & Quantum
1094, 1133, 1229, 1093, 1192 (H2)

IT2 08:45-10:15

AI Application – AI-enabled services
1100, 1179, 1267, 1108, 1183 (H3)

10:15-10:30 Break

Invited Speaker

Time: 10:30-11:00 (Tehran Time, +03:30 GMT)



Title of Speech: The Present and Future of Learning Assessment and Learner's Evaluation in the Era of Artificial

Dr. Fattaneh Taghiareh

Venue: H1 Hall, ICT Research Institute, Tehran, Iran



IT3 11:00-12:15

AI Application – AI-enabled services
1132, 1149, 1255, 1071, 1025 (H1)

Invited Speaker

Time: 10:30-11:00 (Tehran Time, +03:30 GMT)



Title of Speech: Cyber Insurance: Needs, Concepts, Trends and Approaches

Dr. Mohammad Hesam Tadayon

Venue: H2 Hall, ICT Research Institute, Tehran, Iran



SEC 11:00-12:15

Security
1022, 1030, 1106, 1186, 1014 (H2)

Invited Speaker

Time: 10:30-11:00 (Tehran Time, +03:30 GMT)



Title of Speech: Advances in Wideband, High-Efficiency, and High-Linearity RF Power Amplifiers

Dr. Vahid Nayeri

Venue: H3 Hall, ICT Research Institute, Tehran, Iran




CT5 11:00-12:15

Devices in Microwaves, MMW and THz
1003, 1040, 1119, 1142, 1103, 1271 (H3)

Poster Presentation 09:45-10:45

Poster session 2 (H4)
Future Networks, Systems & Technologies part2 - Empowerment & Enabling Environment
1023, 1036, 1052, 1084, 1088, 1107, 1116, 1171, 1224, 1241, 1109, 1125, 1143, 1144, 1163, 1172, 1177, 1180, 1181, 1197, 1198, 1199, 1203, 1209, 1212, 1235, 1250, 1265, 1266



12:15-14:00 Lunch

Invited Speaker

Time: 14:00-14:30 (Tehran Time, +03:30 GMT)



Title of Speech: Two 6G Enablers: Integrated Sensing and Communications, and Semantic Communications

Dr. Mahtab Mirmohseni

Venue: Main Hall, ICT Research Institute, Tehran, Iran



CT6 14:30-16:00

AI Application – AI-enabled services
1018, 1031, 1205, 1176 (Main hall)

Invited Speaker

Time: 14:00-14:30 (Tehran Time, +03:30 GMT)



Title of Speech: Use of Shared-Aperture Technology in Hybrid Base Transceiver Antennas

Dr. Hadi Aliakbarian

Venue: H1 Hall, ICT Research Institute, Tehran, Iran



CT7 14:30-16:00

Antennas and Devices for Wireless Comm.
1080, 1148, 1135, 1145, 1218, 1058 (H1)

Invited Speaker

Time: 14:00-14:30 (Tehran Time, +03:30 GMT)



Title of Speech: G- Cloud Architecture and Migration method

Dr. Mohammad Reza Ahmadi

Venue: H2 Hall, ICT Research Institute, Tehran, Iran




IT4 14:30-16:00

Services and Platforms
1061, 1238, 1026, 1079 (H2)

16:00-16:15 Break


Panel 2
16:15-17:30 (Tehran Time, +03:30 GMT)

The Role of AI in Resolving Bottlenecks in ICT Industry



Poster Presentation 15:30-16:30

Poster session 3 (H4)
Services, Platforms & Devices
1010, 1029, 1047, 1077, 1082, 1097, 1111, 1124, 1131, 1140, 1154, 1162, 1194, 1200, 1228, 1231, 1237, 1239, 1245, 1246, 1252, 1254, 1258, 1260, 1270



17:30-18:00

Product-oriented Idea Event
18:00-19:30
Closing

NOT: All times are based on Iran Standard Time +3:30 GMT

IST'2024 Schedule

Organization 



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Communication in the Age of Artificial Intelligence

October 9-10, 2024

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Keynote Speakers 



Babak Khalaj

Sharif University of Technology

Role of AI and Large Language Models in Telecom Evolution



Time: 09/10/2024 | 8:30- 9:00 (Main hall)

Abstract

In past few years, the world has experienced an exponential growth of AI applications in wide range of applications. In this talk, we will focus on the Telecom sector and briefly review the new Telecom ecosystem in light of recent unprecedented advancements of AI, and specifically, Large Language Models. Wide range of applications from network automation to anomaly and fraud detection are now in close attention of all key network operators and equipment vendors in this new and vibrating ecosystem, with many more new applications in sight for the coming future.



Jwad A. Salehi



Sharif University of Technology, Sharif
Quantum Center

Towards All-Quantum Internet Communication Systems and Networks



Time: 09/10/2024 | 9:00- 9:30 (Main hall)

Abstract

The successful emergence of various quantum communication systems, networks, computers and machine learning in the futuristic quantum internet will highly depend on developing all-quantum signal processing techniques, where every stage—from transmission to reception—is governed by quantum principles. All-quantum signal processing techniques within vast and complex networks face many challenges due to the wide range of optical and photonic devices and subsystems used in such networks. The core challenge in developing all-quantum signal processing in the aforementioned networks lies in preserving the quantumness of the state of quantum light to maintain its quantum advantage while transforming from one module (device) to another with different functionalities. In this talk, I will explore how all-quantum processing can fully exploit quantum properties like superposition, entanglement, and teleportation. Additionally, I will highlight several pioneering examples where all-quantum signal processing has already been successfully established in long-distance communication and multi-access networks, illustrating its potential in future quantum internet. We will also discuss the importance of quantum memory and other technologies, such as quantum machine learning, necessary to address the challenges of integrating quantum technology into the network infrastructures.



Nizamettin Aydin



Istanbul Technical University,
Computer Engineering
Department, Istanbul, Turkiye



**Istanbul Technical
University, Computer
Engineering Department,
Istanbul, Turkiye**

Time: 09/10/2024 10:00- 10:30 (Main hall)

Abstract

Stroke is an illness causing partial or total paralysis, or death. The most common type of stroke occurs when a blood vessel in or around the brain is blocked by emboli. Early and accurate detection of asymptomatic emboli is important in identifying patients at high risk of stroke. They can be detected by Doppler ultrasound. Most Doppler systems employ quadrature demodulation resulting in quadrature signals. Quadrature signals are based on the notion of complex numbers used in many digital signal processing applications. Quadrature signal processing is used in many fields of science and engineering. Processing of quadrature Doppler signals provides additional processing power by enabling to measure amplitude and phase of the signal simultaneously. In medicine, it is mainly used in the study of blood flow. In this talk, various processing methods including Fourier and wavelet transforms (particularly complex discrete wavelet transform) for processing quadrature embolic Doppler ultrasound signals within stroke research context will be presented.



Seizo Onoe



Director of ITU
Telecommunication
Standardization Bureau (TSB)



AI Standardization in ITU - Current Activities and Future Plans

Time: 09/10/2024 | 14.30-15.00 (Main hall)

Abstract

Mr. Seizo Onoe, Director of ITU's Telecommunication Standardization Bureau, will highlight the significance of standards in promoting public-private collaboration and achieving policy goals. He will offer examples of how voluntary standards can enhance these objectives, particularly in areas like service quality and sustainability, while stressing their foundational role in supporting policy and regulation. The discussion will also address key focus areas for AI-specific standards, including trustworthiness, sustainability, functional safety, and data quality. Furthermore, Mr. Onoe will provide insights into the practical applications of AI standards through various collaborative initiatives and emphasize the importance of mitigating the negative impacts associated with emerging technologies such as



Eesa Mohammed Al Bastaki



The President of the University of Dubai

Disruptive Technology in the 4th Industrial Revolution and Beyond



Time: 09/10/2024 | 15:00- 15:30 (Main hall)

Abstract

The 4th Industrial Revolution is characterized by the fusion of physical, digital, and biological technologies, leading to unprecedented changes across industries. Disruptive technologies such as artificial intelligence (AI), blockchain, the Internet of Things (IoT), and quantum computing are at the forefront of this transformation. These technologies challenge traditional business models, redefine industries, and create new paradigms of interaction between humans and machines. In this rapidly evolving landscape, understanding and leveraging disruptive technology is crucial for organizations to remain competitive. This topic explores how these technologies are not just tools but catalysts for innovation that drive economic growth, enhance productivity, and address complex global challenges. Moreover, it emphasizes the importance of adaptability, continuous learning, and ethical considerations as we navigate through this era of disruption. As we look beyond the 4th Industrial Revolution, the role of disruptive technology will only become more integral. Future advancements promise to further blur the lines between the digital and physical worlds, requiring us to rethink our approach to technology adoption, workforce development, and global collaboration. Hence, by urging engineers, policymakers, and business leaders to embrace these technologies with a forward-thinking mindset, ensuring they contribute positively to society while mitigating associated risks. The future is where technologies, policies, regulations and services become flexible, adaptable and instantaneous as disruptive innovations rule the outcomes.



Maode Ma



Qatar University

Security Enhancements for 5G Wireless Networks



Time: 10/10/2024 | 8:15- 8:45 (Main hall)

Abstract

The Fifth Generation (5G) wireless network has become a major carrier for wireless communications that supports the Internet of Everything and large-scale heterogeneous connections. Nowadays, the 5G wireless networks have been deployed in many countries in the world such as Qatar, where 5G commercial services are available to end-users. 5G wireless networks present some promising and advanced features. Since the introduction of new techniques and new features makes 5G wireless networks face several new security challenges, it is critical to design new security functionality to protect the operation of 5G wireless networks. The Third Generation Partnership Project (3GPP) has produced the Technical Specification TS 23.501 R16 to specify various functions of 5G wireless networks with corresponding security mechanisms. Some other pioneering research works have enhanced the security mechanisms specified by the 3GPP. In this talk, I would like to summarize some follow-up research work with the aim of achieving a compromise between the security functionality and the

Invited Speakers 



Behrouz Maham



Nazarbayev University

Non-Terrestrial Networks (NTN) Over Millimeter-Wave Bands



Time: 09/10/2024 | 9:30- 10:00
(Main hall)

Abstract

This presentation investigates the potential of Non-Terrestrial Networks (NTN) operating in the millimeter-wave spectrum for enhancing terrestrial communication systems. We will examine the performance characteristics of NTN systems, including their advantages and challenges in terms of coverage, latency, and capacity. Furthermore, the presentation will provide a comprehensive overview of recent advancements in NTN technologies, with a particular focus on their integration with terrestrial 5G and 6G networks. Real-world applications such as emergency response and disaster recovery scenarios utilizing Low Earth Orbit (LEO) satellites and Unmanned Aerial Vehicles (UAVs) will be highlighted to illustrate the practical implications of NTN systems, including their advantages and challenges in terms of coverage, latency, and capacity. Furthermore, the presentation will provide a comprehensive overview of recent advancements in NTN technologies, with a particular focus on their integration with terrestrial 5G and 6G networks. Real-world applications such as emergency response and disaster recovery scenarios utilizing Low Earth Orbit (LEO) satellites and Unmanned Aerial Vehicles (UAVs) will be highlighted to illustrate the practical implications of NTN systems.



Karim Mohammadpour-Aghdam



School of Electrical & Computer
Engineering University of Tehran



BTS Antennas and its Network Requirements in 6G and Beyond

Time: 09/10/2024 | 16:30- 17:00 (Main hall)

Abstract

The evaluation of base station antennas is crucial for the advancement of mobile networks. In this talk, we will discuss the essential requirements for 4G and 5G networks in base station antennas, and address the current state of research and production of BTS antennas in Iran. We will explore multi-port and multi-technology antennas as key elements of a sustainable network. Penta-Band (10-port) and Octa-Band (16-port) antennas provide 4x4 MIMO capability in FD technology. Meanwhile, hybrid 24-port or 32-port antennas combine FD and TD technologies, offering higher-order MIMO facilities for 4G and 5G technologies. These advancements will also meet the requirements of 6G and beyond.



Fattaneh Taghiyareh



University of Tehran

The Present and Future of Learning Assessment and Learner's Evaluation in the Era of Artificial Intelligence



Time: 10/10/2024 | 10:30- 11:00 (H1)

Abstract

Assessment and evaluation, the final link in the educational chain, play a key role in achieving learning outcomes. With the rapid advancement of artificial intelligence (AI) and the development of innovative tools such as Large Language Models (LLMs), a new paradigm based on AI and LLM technology is expected to emerge, overcoming the longstanding problem in online assessment. In this talk, after a brief introduction to traditional frameworks and methods of evaluation, we aim to review the impact of AI, particularly LLMs, on the process of education and assessment, and introduce effective, modern methods. Assessment is defined with various goals, including evaluating the learning process, assessing the learner, and measuring the success of the instructor in teaching, with different tools introduced for each of these objectives. There are key challenges in assessment,



some of which are either not feasible in the traditional model or are extremely difficult to implement, making them practically impossible. For instance, finding rational distractors in multiple-choice tests is a promising area in which LLMs may be helpful. i.e., can the limitations of these tests be overcome with the help of LLMs? Can these models help identify learners' misconceptions and improve the teaching process? How can learners be encouraged to engage in activities that enhance understanding, problem-solving, reasoning, and the application of learned concepts with the help of AI? Is it possible to encourage knowledge-based group behavior through the creation of group conversations with GPT? How can LLMs improve the validity or reliability of assessment results? Given the superiority of formative assessment over summative assessment, and also diagnostic evaluation, can LLMs assist teachers in designing ongoing formative assessments and in creating personalized feedback for each learner? Can automatic grading by a language model make grading fairer? Could

automating the grading process reduce learners' anxiety? Can LLMs, with mastery over the lesson roadmap, help deepen learning and elevate learning levels among students? In this presentation, we aim to answer some of the above questions and introduce research topics for those questions that remain unanswered. Some of the findings from current research at the University of Tehran's TELAB (Tech-Enhanced Learning Lab) will be presented as new solutions in the field of assessment.



Mohammad Hesam Tadayon



ICT Research Institute (ITRC)

Cyber Insurance: Needs, Concepts, Trends and Approaches



Time: 10/10/2024 | 10:30- 11:00
(H2)

Abstract

In an era marked by rapid advancements in technology and digital communication networks, the digital economy has exposed companies and organizations to myriad cyber risks that can significantly impact their operations, reputation, and financial stability. Cyber insurance has emerged as a crucial component in risk management strategies and serves as a new industry that provides a safety net against the financial repercussions of cyber incidents. The increasing frequency and complexity of cyberattacks underscore the urgent need for organizations to adopt comprehensive risk management frameworks. Data breaches, ransomware attacks, and denial-of-service attacks are just a few examples of threats that can disrupt business operations and lead to substantial financial losses. Cyber insurance offers a tool for transferring some of the financial risks associated with cyber incidents to stakeholders. However, the acceptance and implementation of cyber insurance vary significantly across countries and industries, which we will address. Major insurers have



developed a wide range of policies and coverage options that cater to the unique needs of various sectors, from healthcare to finance. The evolution of these policies in the modern world reflects an increasing understanding of the cyber threat landscape and the importance of addressing the specific vulnerabilities of each industry, making it essential to consider the different types available. Moreover, cyber insurance not only provides adequate coverage for financial losses resulting from cyber incidents but also plays an important role in enhancing risk reduction strategies within organizations. Insurance companies utilize data analytics and artificial intelligence concerning cyber threats to assess risks and determine policy terms. This approach encourages organizations to adopt stronger cybersecurity measures to secure better coverage options and lower premiums. Consequently, stakeholders need to align their cybersecurity strategies and insurance policies to effectively address these threats. Cyber insurers face the challenge of accurately assessing risks in this dynamic environment, placing them on a new path of insurance transformation that requires prompt identification of the challenges and risks facing this industry, while also paving the way for investment in this area. In this speech, we aim to discuss cyber insurance and the related issues highlighted above.



Vahid Nayyeri



Iran University of Science and
Technology



Advances in Wideband, High- Efficiency, and High- Linearity RF Power Amplifiers

Time: 10/10/2024 | 10:30- 11:00 (H3)

Abstract

In this talk, I will present our recent advancements in RF power amplifiers (PAs), with a focus on wideband, high-efficiency, and high-linearity designs. Over the past decade, my team has developed innovative techniques to significantly improve the bandwidth, efficiency, and linearity of PAs. I will discuss these approaches in detail, covering key principles such as wideband matching networks, load modulation, and predistortion. In the final section of the talk, attendees will be introduced to how artificial intelligence (AI) can be applied to further enhance PA performance.



Mahtab Mirmohseni



Electrical Engineering Department, Sharif
University of Technology

Two 6G Enablers: Integrated Sensing and Communications, and Semantic Communications



Time: 10/10/2024 | 14:00-14:30 (Main hall)

Abstract

In the first part of the talk, I will present the roadmap for 6G, highlighting two key enablers: integrated sensing and communications, and semantic communications. Future communication networks, including 6G and beyond, are expected to support intelligent applications that heavily rely on sensory data, making the availability of such data crucial across a wide range of applications. Additionally, semantic communication represents a new paradigm for information transmission, where the meaning (semantics) of the message is integrated directly into the communication process. In the second part of the talk, we will delve deeper into semantic communications, particularly focusing on the associated security challenges. As 6G systems are being developed, it is essential to design them with security and privacy as core principles to ensure user trust and facilitate widespread adoption. To address these concerns, we will explore Secure Semantic Communication, analyzing the information-theoretic limits for securely transmitting a semantic source over a wiretap channel. We will present both general outer and inner bounds on the rate-distortion-equivocation region, considering separate secrecy and distortion constraints for semantics and observed data.



Hadi Aliakbarian



University of K.N Toosi

Use of Shared- Aperture Technology in Hybrid Base Transceiver Antennas



Time: 10/10/2024 | 14:00- 14:30 (H1)

Abstract

The Base Station Antenna (BTS) is a critical component of commercial cellular telecommunications systems. Over time, BTS structures and frequency bands have evolved from the first generation to today's 4G networks and the early releases of 5G, primarily in the sub-6GHz band. However, the need to maintain 3G and 4G services alongside sub-6GHz frequencies complicates new designs. The latest BTS antennas must cover the 3.3 to 3.8 GHz band in addition to existing bands, all while maintaining the same antenna size. This introduces two significant challenges: first, the need for antennas with wider bandwidth and integrated phase shifters, and second, the requirement to incorporate a higher number of antenna elements within a compact size. In this presentation, the second challenge—degradation of antenna performance due to scattering issues—is discussed. Specifically, it addresses the radiation decoupling of wider bandwidth dual-polarized antenna elements and explores how designers can place antennas in close proximity without compromising performance.



Mohammadreza Ahmadi



Associated Professor in ICT Research Institute
(ITRC)

G- Cloud Architecture and Migration method

Time: 10/10/2024 | 14:00- 14:30
(H2)



Abstract

Considering the existing challenges of the data centers of government agencies, especially in connection with establishing data security requirements, providing appropriate support services, creating security and crisis management centers and disaster recovery plans, high costs of maintaining and upgrading data centers, high electricity consumption in this Centers and so on, in line with major action number 23 of the National Information Network Master Plan and Architecture document, the Ministry of Communications and Information Technology is obliged to create a G-cloud services with the possibility of interacting with digital platforms to use the data and services of government and governance institutions, respecting national, public and individual security considerations. In order to achieve this goal, the government cloud design project was proposed. The goal of this project is to design the infrastructure and cloud platform for the implementation of

Workshops Topic 



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Presenters	Workshop Topic	Presentation Date
Narges Noori	Assessments of Human Exposure to Radio Frequency Electromagnetic Fields	5-Oct-24 (Saturday)
Marjan Goodarzi	Bias in Trustworthy AI: New Perspective and Trends	5-Oct-24 (Saturday)
Reza Bahri	The Key Outcomes of the WRC 2023 and Upcoming WRC 2027 Agenda	5-Oct-24 (Saturday)
Narges Shahhoseini	Enhancing LLM Performance through Emotional Intelligence in Prompt Engineering	5-Oct-24 (Saturday)
Amirhossein Nikoofard	AI-Driven Vision: Transforming Telecoms and Autonomous Systems	5-Oct-24 (Saturday)
Mohammad Javad Ahmadi		
Seyed Mohammad Hoseyni		
Sara Tofighi	Evaluation of Quantum Key Distribution Systems	5-Oct-24 (Saturday)
Roghayeh Doost,	ESIM Frequency Interference Management in Satellite Communication	6-Oct-24 (Sunday)
Pedram Hajipour		
Roghieh Karimzadeh		
Mehdi Namazi	Driving Innovation and Technology Management in Future Telecommunications Networks	6-Oct-24 (Sunday)
Mohammad Ali Dastgheib,	Transforming Manufacturing Landscapes: SCADA Implementation with AI & Telecom Solutions	6-Oct-24 (Sunday)
Reza Nejadbrahim		
Karim Talebi		
Mohammad Gholami	Fractional Repetition Codes for Repair in Distributed Storage Systems	6-Oct-24 (Sunday)
Fatemeh Imani Mehr	Integrating AI with SIEM: Advanced Strategies for Threat Detection & Analysis	6-Oct-24 (Sunday)
Tala Tafazzoli		
Mohammad Reza Pakravan	Optical Networks: Technology and Research Trends	7-Oct-24 (Monday)
Mohammad Hadi		
Reza Karami	Capability-based Enterprise Architecture (CBEA)	7-Oct-24 (Monday)
Amin Ghalami Osgouei	Technical Aspects of Setting Up a Serverless Computing Platform for Communication Use Cases	7-Oct-24 (Monday)



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Presenters	Workshop Topic	Presentation Date
Amin Aminzadeh Gohari	On the Auxiliary Receiver Approach in Network Information Theory	8-Oct-24 (Tuesday)
Eslam Nazemi	Self Adaptive Software Systems	8-Oct-24 (Tuesday)
Mohammad Kazem Sattari	Mobinnet as a smart safety and emergency service operator (Focusing on the Alert smart fire monitoring service)	8-Oct-24 (Tuesday)
Mohammad Fakharzadeh	Millimeter-wave Imaging System Architecture	8-Oct-24 (Tuesday)
Zahra Kavehvasht		
Nezammettin Aidin	Processing Quadrature Doppler Signals	8-Oct-24 (Tuesday)

Technical Panels 



The Role of AI in Providing Novel Services in ICT Industry and ICT Governance

Wednesday: 09/10/2024 | 17:00-18:30 (Main hall)

Panel Participants:

- Dr. Ali Asghar Ansari- Deputy Minister of ICT Strategic Planning and Supervision
- Dr. Ali Hakim Javadi- Chairman in NASR
- Mr. Hossein Riazi- Chairman of the board Iranian Telecommunication Industries Syndicate
- Dr. Hamid Behrouzi- Deputy Chief Executive Officer (CEO) Hamrahe Aval (MCI)
- Dr. Hasan Bolvardi- Chief Technology and Information Officer at MTN Irancell
- Mr. Siamak Hossein Khalaj- Director of ICT&Smart Solutions Monenco Iran

Discussion

The panel highlights the growing role of Artificial Intelligence (AI) in telecommunications, emphasizing its ability to automate tasks and contribute to the development of future networks like 6G. A panel will discuss AI applications in communication networks, covering fundamentals and key techniques in areas such as generation and optimization. It will also explore the impact of large language models (LLMs) and the opportunities AI presents in the global ICT industry, with a focus on Iran.



11th International Symposium on Telecommunication

Communication in the Age of Artificial Intelligence
October 9-10, 2024



11th International Symposium on Telecommunication

Communication in the Age of Artificial Intelligence



IST'2024 Panels

Panel Topic:

The Role of AI in Providing Novel Services in ICT Industry and ICT Governance

The panel highlights the growing role of Artificial Intelligence (AI) in telecommunications, emphasizing its ability to automate tasks and contribute to the development of future networks like 6G. A panel will discuss AI applications in communication networks, covering fundamentals and key techniques in areas such as generation and optimization. It will also explore the impact of large language models (LLMs) and the opportunities AI presents in the global ICT industry, with a focus on Iran.



Dr. Ali Asghar Ansari

Deputy Minister of ICT Strategic Planning and Supervision



Dr. Ali Hakim Javadi

Chairman in NASR



Mr. Hossein Riazi

Chairman of the board Iranian Telecommunication Industries Syndicate



Dr. Hamid Behroozi

Deputy Chief Executive Officer (CEO) Hamrahe Aval (MCT)



Dr. Hasan Bolvardi

Chief Technology and Information Officer at MTN Irancell



Mr. Siamak Hossein Khalaj

Director of ICT&Smart Solutions Monenco Iran

Date: October 9, 2024



Atabaki Hall

Time: 17:00-18:30
(Tehran Time, +03:30 GMT)



The Role of AI in Providing Novel Services in ICT Industry and ICT Governance

Thursday: 10/10/2024 | 16:00-17:30 (Main hall)

Panel Participants:

- Prof. S.Mohammad A Razavi zadeh- Director of ICT Research Institute (ITRC)
- Prof. S.Ahmad Motamedi- Amirkabir University of Technology
- Prof. Mohammad Reza Pakravan- Sharif University of Technology
- Prof. Babak Khalaj- Sharif University of Technology
- Prof. Abbas Mohammadi- Amirkabir University of Technology

Discussion

The panel highlights the increasing significance of Artificial Intelligence (AI) in telecommunications, covering scientific and academic applications of AI in communication networks, including fundamentals, AI's impact on data networks, solutions for 5G/6G challenges, and opportunities in satellite communications. The discussion will also address AI and large language models (LLMs) in optical networks, emphasizing research opportunities for universities and research centers worldwide and in Iran.



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IST'2024 Panel

Panel Topic:

The Role of AI in Resolving Bottlenecks in ICT Industry

The panel highlights the increasing significance of Artificial Intelligence (AI) in telecommunications, covering scientific and academic applications of AI in communication networks, including fundamentals, AI's impact on data networks, solutions for 5G/6G challenges, and opportunities in satellite communications. The discussion will also address AI and large language models (LLMs) in optical networks, emphasizing research opportunities for universities and research centers worldwide and in Iran.



Prof. S. Mohammad Razavizadeh
Director of ICT Research Institute (ITRC)



Prof. S. Ahmad Motamedi
Amirkabir University of Technology



Prof. Mohammad Reza Pakravan
Sharif University of Technology



Prof. Babak Khalaj
Sharif University of Technology



Prof. Abbas Mohammadi
Amirkabir University of Technology



Date: October 10, 2024

Time: 16:00-17:30

(Tehran Time, +03:30 GMT)

Atabaki Hall

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Arabsorkhi, Abouzar	9 Oct	11:00 - 12:15	H2	ST1	Digital Economy/ Transformation & Sustainable Development
Arianyan, Ehsan	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
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Pakravan, Mohammad Reza	10 Oct	8:45-10:15	Main hall	CT3	Wireless Communications and Mobile Networks
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R.Forouzan, Amir	10 Oct	8:45-10:15	Main hall	CT3	Wireless Communications and Mobile Networks
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Rafaei, Mahmood	10 Oct	11:00-12:15	H3	CT5	Devices in Microwaves, MMW and THz
Rafati, Elham	10 Oct	8:45-10:15	H1	ST2	Legal, Ethical and Regulatory – Innovation – Strategy
Rafiei, Ehsan	10 Oct	11:00-12:15	H3	CT5	Devices in Microwaves, MMW and THz
Rahmani, Amir Masoud	10 Oct	14:30-16:00	H3	IT4	Services and Platforms
Rahmati, Mohammad	10 Oct	11:00-12:15	H1	IT3	AI Application – AI-enabled services
Rahmatinia, S.Mozhgan	10 Oct	14:30-16:00	Main hall	CT6	AI Application – AI-enabled services
Rajabzadeh Ghatari, Ali	9 Oct	10:45-12:15	H2	ST1	Digital Economy/ Transformation & Sustainable Development
Rashed mohassel, Jalil agha	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Rashidi, Zahra	10 Oct	8:45-10:15	Main hall	CT3	Wireless Communications and Mobile Networks
Razavi, Sara	10 Oct	8:45-10:15	Main hall	CT3	Wireless Communications and Mobile Networks
Rohani, Mehrdad	10 Oct	11:00-12:15	H1	IT3	AI Application – AI-enabled services
Sadeghikia, Fatemeh	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Sadough, Seyed Mohammad Sajad	9 Oct	10:45-12:15	H1	CT2	Optical Networks and Systems
Saeidifar, Arshia	10 Oct	14:30-16:00	Main hall	CT6	AI Application – AI-enabled services
Safari, Mir Mahdi	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Salimijazi, Ramin	10 Oct	8:45-10:15	Main hall	CT3	Wireless Communications and Mobile Networks



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Samanipour, Ali	10 Oct	14:30-16:00	Main hall	CT6	AI Application – AI-enabled services
Saremi, Khashayar	10 Oct	14:30-16:00	Main hall	CT6	AI Application – AI-enabled services
Sattari, Yeganeh	10 Oct	11:00-12:15	H2	SEC	Security
Seyedi, Saeid	10 Oct	8:45-10:15	H2	CT4	Special Topics in Electromagnetic & Quantum
Seyyedsabour, Atiyesadat	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Shabanali, Fatemeh	10 Oct	8:45-10:15	Main hall	CT3	Wireless Communications and Mobile Networks
Shahhoseini, HadiShahriar	10 Oct	11:00-12:15	H2	SEC	Security
Shahidi, Farideh	9 Oct	10:45-12:15	H2	ST1	Digital Economy/ Transformation & Sustainable Development
Shahinzadeh, Hossein	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
Sharbaf Movassaghpour, Shahin	9 Oct	10:45-12:15	H3	IT1	Services and Platforms
Shariatpanahi, Seyed Pooya	9 Oct	10:45-12:15	H3	IT1	Services and Platforms
Shariki Moghadam, Arezoo	9 Oct	10:45-12:15	H2	ST1	Digital Economy/ Transformation & Sustainable Development
Sheth, Ashray	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
Shishegar, AmirAhmad	10 Oct	8:45-10:15	H2	CT4	Special Topics in Electromagnetic & Quantum
Shoar, Maryam	9 Oct	10:45-12:15	H2	ST1	Digital Economy/ Transformation & Sustainable Development
Soleymani, Taban	9 Oct	10:45-12:15	H3	IT1	Services and Platforms
Soltanian Zadeh, Hamid	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
Taban, Mohammadreza	9 Oct	10:45-12:15	Main hall	CT1	Signal Detection/ Processing for Communications
Taghiyare, Fattaneh	9 Oct	10:45-12:15	H3	IT1	Services and Platforms
Taghiyareh, Fattaneh	10 Oct	11:00-12:15	H1	IT3	AI Application – AI-enabled services



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Taghiyareh, Fattaneh	10 Oct	14:30-16:00	H3	IT4	Services and Platforms
Taher, Fatemeh	10 Oct	11:00-12:15	H1	IT3	AI Application – AI-enabled services
Taherkhani, Mehdi	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Tanwar, Sudeep	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
Trivedi, Chinmay	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
Vahedian, Afsaneh	10 Oct	8:45-10:15	H1	ST2	Legal, Ethical and Regulatory – Innovation – Strategy
Yahaghi, Alireza	10 Oct	11:00-12:15	H3	CT5	Devices in Microwaves, MMW and THz
Yari, Alireza	9 Oct	14:30-16:00	H3	IT1	Services and Platforms
Yari, Alireza	10 Oct	8:45-10:15	H3	IT2	AI Application – AI-enabled services
Yazdani, Nasser	9 Oct	10:45-12:15	H3	IT1	Services and Platforms
Yazdani, Nasser	10 Oct	11:00-12:15	H2	SEC	Security
Yazdankhah, Elham	9 Oct	10:45-12:15	Main hall	CT1	Signal Detection/ Processing for Communications
Yeganeh, Hassan	10 Oct	8:45-10:15	H1	ST2	Legal, Ethical and Regulatory – Innovation – Strategy
Yeganeh, Hassan	10 Oct	8:45-10:15	H1	ST2	Legal, Ethical and Regulatory – Innovation – Strategy
Yousefi, Pezhman	10 Oct	11:00-12:15	H3	CT5	Devices in Microwaves, MMW and THz
Yousefpour, Aysan	10 Oct	11:00-12:15	H3	CT5	Devices in Microwaves, MMW and THz
Zakerifar, Hamid	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Zamani, Mohammad Ali	10 Oct	11:00-12:15	H2	SEC	Security
Zamani, Hojatollah	10 Oct	14:30-16:00	H1	CT7	Antennas and Devices for Wireless Comm.
Zarei, Mohammad Hossein	9 Oct	10:45-12:15	H1	CT2	Optical Networks and Systems



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Abbasi, Mahsa	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Abdi, Hashem	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Abdollahi, Jafar	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ahmadi, Parvin	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ahmadian, Fatemeh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Aleyasin, Seyed Mohammad Amin	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ali Montazer, Gholam	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Alidadi, Marzieh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Alipour, Seyyed Mohammad hossein	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Alizadeh, Mehdi	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Alizadeh, Farzad	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Amani, Kiana	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Amiri, Mohammad Javad	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Amiri, Shervin	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ansariyan, Sajjad	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Arandan, Amirhossein	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices



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Arianian, Ehsan	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Arianian, Ehsan	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Asgari Rouzbahani, Mani	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Ashoor, Ebrahim	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Atani, Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Azimzadeh, Masomeh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Azizi, Shadie	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Azmayande, Mahnaz	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Azmi, Paeiz	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Babamir, Seyed Morteza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Badie, Kambiz	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Baghani, Mina	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Baghersalimi, Gholamreza	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Bahri, Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Bahri, Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2



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					Empowerment & Enabling Environment
Bahrololum, Marjan	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Bamasian, Katayoun	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Bashiri, Hamidreza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Batavani, Nafiseh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Behbudi, Morteza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Beigzadeh, Behzad	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Bijary, Farbod	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Bod, Mohammad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Bokaiei, Mohammad Hadi	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
CHANDRA, JOYDEEP	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Darmani, Mohammad Yousef	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Darvishnezhad, Mahdi	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Dolatkhah takloo, Somayeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2



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					Empowerment & Enabling Environment
Doostari, Mohammadali	9Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Ebadzadeh, Mohammad Mehdi	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ebrahimi Atani, Reza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ebrahimzadeh, Ataollah	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Eftekhari Moghadam, Amir Masoud	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Enayati, Alireza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Faiazi, Sepideh	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Fakharzadeh, Mohammad	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Fallahreyhani, Maedeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Farazmand, Atefeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Farhadi, Alireza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Farjadian, Yasamin	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ghalami Osgouei, Amin	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1



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					- Security
Ghalami Osgouei, Amin	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Ghalibafan, Javad	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Gharaee, Hossein	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Gharravi, Sorraya	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ghasemi, Ahmad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ghasemi, Jabber	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ghasemshirazi, Saeid	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Ghattan Kashani, Zahra	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ghazanfari, Saman	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ghobadi, Changiz	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ghobadi, Changiz	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Ghorbani, Neda	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Ghorbani, Neda	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices



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Ghoreishian, Mohammad Javad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Gilanian Sadeghi, Mohammad Mehdi	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Goldust, Mehdi	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Goorani, Hossein	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Goudarzvand, Iman	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Granpayeh, Nosrat	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
quchani, Saeed Rahati	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Gulliver, T.Aaron	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Hafezian, Zohreh	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Haidary, Aryan	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Hakami, Vesal	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Hakamizadeh, Farshad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Halat, Shervin	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Hedayati, Mohammad Reza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices



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Heidari kani, Davood	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Hidaji, Abtin	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Hincal, Evren	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Hossein Alizadeh, Sasan	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Hosseini, Keyhan	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Hosseini, S.Esmail	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Hosseinpour Niari, Mostafa	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Imanimehr, Fatemeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Jabbarpour, Mohammad Reza	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Jabbhdari, Sam	9 OCT	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Jaderyan, Morteza	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 - Security
Jahani, Ali	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Jamali, MohammadReza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Jamali, Shahram	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Jamshidi, Ali	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security



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Kakavand, Mehran	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Kalantari, Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Kamarei, Mahmoud	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Kargar, Masoud	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Karimi Nobandegani, Abbas	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Kazazi, Jamal	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Kazem Sayadi, Mohammad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Kazem Shiroodi, Sajjad	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Keshtkar, Asghar	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Khaki sedigh, Ali	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Khazaei, Ali Akbar	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Koohkan, Ehsan	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Madani, Afsaneh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2



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					Empowerment & Enabling Environment
Mafi, Zohre	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mahdavi, Parisa	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mahmoudi, Mohsen	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Mahmoudi, Narges	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mahmoudi, Mohsen	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Malakutifar, AmirReza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Maleki, Davood	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Maleki, Davood	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
MANHAS, PRABAL	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Mansouri, Alireza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Masumi, Mostafa	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Mazoochi, Mojtaba	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mehraban, Elahe	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mehri, Reza	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Mehrpour, Omid	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices



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Mirzaei Sarmad, Mohammad Parsa	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Moaiedi, Naghmeh Sadat	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Moghimi, Fateme	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Mohamadian, Asghar	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Mohammadi, Fatemeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mohammadi, Bahman	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Mohammadi, Siamak	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Mohsen Babaei, Mohsen	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mohseni, Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Moin, Mohamad Shahram	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Mokari, Nader	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Monemi, Mehdi	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Moradhasel, Niloofar	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment



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Moradi, Gholamreza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mousavi, S.Ali	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Movahed, Narges	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Mozayani, Nasser	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Mozayani, Amir Hossein	10 Oct	9:45-10:45	H4	3	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Naderan, Marjan	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Najmolhoda, Seyed hesamodin	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Nedaei, Neda	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
NoormohammadZadehMaleki, Deniz	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Nourinia, Javad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment
Nourinia, Javad	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Parastar, Behnam	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Pourmahbobi, Amin	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
R.Forouzan, Amir	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment



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Rabiei, Leila	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Rabizadeh Fard, Farbod	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Rafati, Elham	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part1 - Security
Rahmani, AmirMasoud	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Rahmani Charvadeh, Sina	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Ranjbarrafie, Davood	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Ranjbarrafie, Davood	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Razavi, Hooman	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Sabeti, Vajihch	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Sabeti, Vajihch	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Saeidi, Omid	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Sahab, Sepehr	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Samie, Mehdi	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Samii Zafarqandi, Mohammad Javad	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Sani Ellis, Mubarak	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Sattari, Yeganeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment



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Name	Date	Time	Hall	Poster Session	Session Title
Sedaghat Khankahdani, Ali	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Seyed Hosseini, Nayer	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Seyfipoor, Mahdi	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Shabanian Boroujeni, Touraj	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Shabanian Boroujeni, Touraj	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Shahbazian, Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Shahhoseini, Narges	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Shahhoseini, Narges	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Shahriary, Amirali	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Shahrokhzadeh, Behrooz	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Shahrokhzadeh, Behrooz	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Sheikhbahaei, Mohammad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Sheikhi, Marzieh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Shiri, Masoumeh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Shirvani, Ghazaleh	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security



Name	Date	Time	Hall	Poster Session	Session Title
Shirvani Moghaddam, Shahriar	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Siasifar, Mahdi	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Sirojuddin, Ahmad					
Taaj, Nasrin	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Tabrizchi, Hamed	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Taghiyareh, Fattaneh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Taghiyareh, Fattaneh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Taghiyareh, Fattaneh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Taghiyareh, Fattaneh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Taghiyareh, Fattaneh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Taghiyareh, Fattaneh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Taghiyareh, Fattaneh	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Taheri, Mohammad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Taleb, Hussein	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Tavasoli, Reza	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Valaee, Nazanin	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Valinezhad, Fatemeh	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2



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Name	Date	Time	Hall	Poster Session	Session Title
					Empowerment & Enabling Environment
VarastehNezhad, Arya	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Yazdi, Mehran	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Yeganeh, Hasan	10 Oct	15:30-16:30	H4	3	Services, Platforms & Devices
Yeganeh, Hassan	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Yousefi, Mohammad Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Yousefi, Mohammad Reza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Zaherfekar, Alireza	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Zare, Hadi	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Zare Andalani, Amirsaman	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Zare Andalani, Sajad	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Zarrabi, Houman	10 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security
Zarrabi, Houman	10 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security



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Name	Date	Time	Hall	Poster Session	Session Title
Zarrabi, Houman	10 Oct	9:45-10:45	H4	2	Future Networks, Systems & Technologies part 2 Empowerment & Enabling Environment
Ziaei-pour, Elham	9 Oct	9:45-10:45	H4	1	Future Networks, Systems & Technologies part 1 Security



Sessions Time Table





Wednesday		Hall: Main hall	Date: 9 Oct
CT1			Time: 10:45- 12:15
Signal Detection/ Processing for Communications			
Session chairs: Babak Khalaj, Mohammad Reza Keshavarzi, Mohsen Rezaee			
Paper id	Title of paper	Authors	
1102	Attention-Integrated CNN for Precise Sound Source Localization with Microphone Arrays	Elham Yazdankhah Salman Karimi	
1156	Removing Speckle Noise from Synthetic-Aperture Radar Images Using Artificial Intelligence Techniques	Fateme Moein Mohammadreza Taban	
1216	Signal Detection Using Compressive Sensing in Massive MIMO Systems with multidimensional Modulation	Mojtaba Amiri Ali Olfat	
1159	Learning-Based Optimal Detector for Uplink Multiuser Massive MIMO Systems with One-Bit ADCs	Mohammad Amin Keshmiri Mojtaba Amiri Ali Olfat	



Wednesday		Hall: H1	Date: 9 Oct	
CT2			Time: 10:45-12:15	
Optical Networks and Systems				
Session chairs: Mohammad Reza Hedayati, Nosrat Granpayeh, Jawad A. Salehi				
Paper id	Title of paper	Authors		
1086	Machine Learning for Adaptive Modulation in Medical Body Sensor Networks Using Visible Light Communication	Reza Bayat Rizi Amir R. Forouzan Farshad Miramirkhani Mohamad F. Sabahi		
1070	Graph Signal Processing Meets Optical Resource Allocation	Mohammad Hossein Zarei Mohammad Hadi Mohammad Reza Pakravan		
1214	Outdoor Visible Light Positioning using Convolutional Neural Networks	Pouya Hosseinniya Gholamreza Baghersalimi Hossein Goorani		
1158	QoT Estimation of a Commercial DWDM Transmission System Using Artificial Neural Network and Its Feature Importance Analysis	Mojtaba Amani Changiz Ghobadi Javad Nourinia Mehdi Habibi		
1065	Interaction Between Power Allocation and BER Performance for mCAP-NOMA in Visible Light Communication	Amir Oshtoudan Seyed Mohammad Sajad Sadough		



Wednesday		Hall: H2	Date: 9 Oct
ST1			Time: 10:45-12:15
Digital Economy/ Transformation & Sustainable Development			
Session chairs: Abouzar Arabsorkhi, Morteza Barari, Ali Yazdian Varjani			
Paper id	Title of paper	Authors	
1160	Challenges of Artificial Intelligence Technology and Its Impact on Digital Economy Growth	Farideh Shahidi Nahid BozorgKhou Niloofar Moradhasel	
1005	Utilizing Soft Systems Methodology: Designing a Regulatory Model in Information and Communications Technology	Alireza Malekijahan Ali Rajabzadeh Ghatari Maryam Shoar Azim Fard	
1233	Artificial Neural Network and ARIMA model to estimate ICT sector investment, a comparative approach	Leila Mansourifar Niloofar Moradhasel Matin Sadat Borghei Arman Heidari	
1226	A Bibliometric and Visualization Analysis of Research Trends and Hotspots on Digital Economy Diplomacy	Leila Mansourifar Arezoo Shariki Moghadam	
1099	A Hybrid Local Linear Neuro-Fuzzy Model For Digital Transformation Scenario Analysis	Mehdi Fasanghari	



Wednesday		Hall: H3	Date: 9 Oct
IT1			Time: 10:45-12:15
Services and Platforms			
Session chairs: Behzad Moshiri, Zahra Shirmohammadi, Maryam Tayefeh Mahmoudi			
Paper id	Title of paper	Authors	
1020	An AI-enabled Approach to Predict Critical Components and Enhance Supply Chain Management	Soroush Elyasi Fattaneh Taghiyareh	
1051	A Consulting System for Portfolio Assets Allocation by Selecting the Best Agent in the Short Term Based on Cumulative Returns with Deep Reinforcement Learning	Shahin Sharbaf Movassaghpour Masoud Kargar Ali Bayani Alireza Assadzadeh Ali Khakzadi	
1009	Local Graph Convolutional Network for Hyperspectral Target Detection	Maryam Imani	
1227	Multi-Level Deep Reinforcement Learning-based Edge Caching Strategies in Vehicular Networks	Taban Soleymani Nasser Yazdani Seyed Pooya Shariatpanahi	
1248	Optimizing Urban Traffic Flow in Smart Cities: A Fuzzy Goal Programming Approach	Alireza Yari Pouya Fathollahzadeh	



Thursday		Hall: Main hall	Date: 10 Oct
CT3			Time: 8:45- 10:15
Wireless Communications and Mobile Networks			
Session chairs: Kamal Mohamedpour, Babak Seyfe, Nasser Yazdani			
Paper id	Title of paper	Authors	
1053	Interference Precancellation in Multiuser Vector Broadcast Channels Using PSK Modulation	Amir R. Forouzan Ramin Salimijazi	
1117	Adaptive Edge Caching in mmWave Integrated Access and Backhaul Networks	Zahra Rashidi Fatemeh Sadat Hashemi Nazarifard Vesal Hakami	
1122	Automatic Modulation Detection in Non-orthogonal Multiple Access Systems	Fatemeh Shabanali Mehrdad Ardebilipour	
1169	A Traffic Control Approach to Minimize Congestion in O-RAN Architecture	Ali Atashbar Hamed Alizadeh Ghazijahani Mahmoud Atashbar	
1152	Hybrid Precoding Design based on Alternating Optimization in mmWave MIMO Systems	Mehrdad Momen-Tayefeh Ali Olfat Mojtaba Amiri	
1141	End-to-end Performance for User-centric Cell-free mMIMO Networks with Multiple CPUs	Sara Razavi Mohammad Hadi Mohammad Reza Pakravan	



Thursday		Hall: H1	Date: 10 Oct
ST2			Time: 8:45- 10:15
Legal, Ethical and Regulatory – Innovation – Strategy			
Session chairs: Amir Hossein Mozayani, Mohammad Kazem Sayadi, Hadi Shahriar Shahhosseini			
Paper id	Title of paper	Authors	
1138	Analyzing the Challenges of Applying Artificial Intelligence in the Field of Employment and Offering Solutions to Improve Skills and Workforce Training	Azam sadat Mortazavi Kahangi Hassan Yeganeh Anita Hadizadeh	
1085	Examining the legal challenges and loopholes of artificial intelligence by considering the upstream documents of the country	Mohammad Hadi Bokaei Elham Rafati Davood Heidari Kani Farbod Rabizadeh Fard Ali Derakhshani Iman Derakhshani	
1021	Performance Comparison of Internet Domain Ranking Techniques	Davood Maleki Pejman Goudarzi Alireza Mansouri	
1137	From Policy to Innovation: A Comparative Analysis of Digital Economy Strategies in Selected Countries	Hassan Yeganeh Fateme Kassaie Najafi Afsaneh Vahedian	



Thursday		Hall: H2	Date: 10 Oct
CT4			Time: 8:45- 10:15
Special Topics in Electromagnetic & Quantum			
Session chairs: Tavakol Pakizeh, Mahmoud Shahabadi, Vahid Yazdanian			
Paper id	Title of paper	Authors	
1094	Public Safety Assessment of Radio Frequency Electromagnetic Exposure	Narges Noori	
1133	Exploring Fourier Neural Operators for Electromagnetic Wave Propagation Analysis	Arefeh Nikdast Amir Ahmad Shishegar	
1229	Multicore Photonic Crystal Fiber Plasmonic Sensor	Parisa Borjikhani Nosrat Granpayeh Babak Nasersharif	
1093	Deep Learning for Electromagnetic Metamaterial Inverse Design	Ali Nezaratzadeh Seyed Mohammad Hashemi Mohammad Bod	
1192	An efficient design of a Crossbar Switch for Banyan Network and Nano Communication based on QCA technology	Saeid Seyedi Hatam Abdoli	



Thursday		Hall: H3	Date: 10 Oct
IT2			Time: 8:45- 10:15
AI Application – AI-enabled services			
Session chairs: Ehsan Arianyan, Hadi Moradi, Behzad Moshiri			
Paper id	Title of paper	Authors	
1100	Cryptocurrency volatility prediction based on price, return and volatility cross-correlation using LSTM	Masoud Omidvari Abarghouie Sasan H. Alizadeh Ahmad Khademzadeh	
1179	Automotive Radar Simulator Based on Ray-Tracing and Machine Learning	Jamal Kazazi Alireza Mahdavi Mahmoud Kamarei Mohammad Fakharzadeh	
1267	Optimizing Smart Parking Solutions in Vehicle-to-Vehicle Networks	Alireza Yari Pouya Fattolahzdeh	
1108	Artificial Intelligence-assisted Software Defined Networking for Securing ITS in Smart Cities	Ashray Sheth Bansri Choxi Chinmay Trivedi Rajesh Gupta Sudeep Tanwar Hossein Shahinzadeh Shohreh Azani	
1183	An Efficient Motor Imagery BCI Classification Architecture Using Non-linear Network Tuning suitable for Cloud-Edge Environments	Abolfazl Danayi Hamid Soltanian-Zadeh	



Thursday		Hall: H1	Date: 10 Oct
IT3			Time: 11:00- 12:15
AI Application – AI-enabled services			
Session chairs: Mohammad Shahram Moin, Javad Shaygan Fard, Fattaneh Taghiyareh			
Paper id	Title of paper	Authors	
1132	SegLoc: Visual Self-supervised Learning Scheme for Dense Prediction Tasks of Security Inspection X-ray Images	Shervin Halat Mohammad Rahmati Ehsan Nazerfard	
1149	Detection of Customer Satisfaction in In-Person Telecommunication Services Using Automated Facial Image Analysis with Artificial Intelligence	Hadiseh ArabGangan Mehrdad Rohani Seyed Ali Hosseini Alireza Mansouri	
1255	Effect of Short-Form Videos on Student Attention	Mohsen Mahmoudi Fattaneh Taghiyare Kianosh Arian	
1071	Exploring Feature Map Correlations for Effective Fake Face Detection	Narges Honarjoo Fateme Taher Azadeh Mansouri	
1025	Detecting Human Attention States Exploiting an Intelligent Approach Combining Fuzzy Inference System and Support Vector Regression	Sajedah Olyae Gholam Ali Montazer	



Thursday		Hall: H2	Date: 10 Oct
SEC			Time: 11:00- 12:15
Security			
Session chairs: Hossein Gharaee Garakani, Babak Sadeghian, Hamid Reza Shahriari			
Paper id	Title of paper	Authors	
1022	Detection of Phishing Attacks in Iranian E-Banking Websites Using a Neuro-Fuzzy System	Yeganeh Sattari Gholam Ali Montazer	
1030	Advanced Automated Vulnerability Scoring: Improving Performance with a Fine-Tuned BERT-CNN Model	Seyedeh Leili Mirtaheri Andrea Pugliese Narges Movahed AmirHossein Majd	
1106	Classification of legal and illegal sites using transfer learning based on features extracted from URLs	Majid Nezarat Erfan Khedersolh HadiShahriar Shahhoseini	
1186	FL-ProtectX: Combating Label flipping in complex multi-agent environments	Mohammad Ali Zamani Fatemeh Amiri Pooya Jamshidi Seyed Mahdi Hosseini Nasser Yazdani	
1014	Lateral movement detection through a heterogeneous GNN model of kernel-level log	Faezeh Alizadeh Mohammad Khansari Abouzar Arabsorkhi	



Thursday		Hall: H3	Date: 10 Oct
CT5			Time: 11:00- 12:15
Devices in Microwaves, MMW and THz			
Session chairs: Reza Bahri, Vahid Nayyeri, Hossein Zargar			
Paper id	Title of paper	Authors	
1003	RHC-Based Systematic Design of a Wide-Angle Periodic Coded THz Reflectarray	Pezhman Yousefi Ali Khajeh Alireza Yahaghi Keyhan Hosseini	
1040	Compact Dual-Band Transmission-Reflection Modes Polarization Rotation Metasurface	Aysan Yousefpour Changiz Ghobadi Javad Nourinia Keyhan Hosseini Mohsen Karamirad Bahman Mohammadi	
1119	Multi-functional and multi-band reflective polarization converter based on an asymmetric metasurface in the terahertz band	Hamed Eyvazlou Fatemeh Abbasian Nosrat Granpayeh Zahra Ghattan Kashani	
1142	Three Degrees of Freedom Cells and a Perforated Dielectric for Wideband Reflectarray Fabrication	Mahdieh Bozorgi Mahmood Rafaei-Booket Soroosh Ghaffari	
1103	Design and Analysis of a THz Topological Frequency-Tunable Waveguide based on Valleytronics	Mohammadreza Moeini Vahid Ahmadi	
1271	Design and Implementation of a High-Efficiency 5W Ku-Band Power Amplifier Using a Bare Die GaN HEMT for Satellite Uplink Applications	Ehsan Rafiei Amin Azimi Vahid Nayyeri Roghieh Karimzadeh Bae	



Thursday		Hall: Main hall	Date: 10 Oct
CT6			Time: 14:30- 16:00
AI Application – AI-enabled services			
Session chairs: Babak Khalaj, Abbas Mohammadi, Houman Zarrabi			
Paper id	Title of paper	Authors	
1018	Enhancing NTMA with Simultaneous Multi-QoS Parameter Prediction using Transformer-Based Deep Learning	S.Mozhgan Rahmatinia Seyed Amin Hosseini seno	
1031	Synthetic Collision-Prone Trajectory Data Generation Using CTGAN for Connected Autonomous Vehicles	Ali Samanipour Reza Javidan Omid Bushehrian	
1205	A method of the Free rider detection in peer-to-peer Video Streaming Networks Using Convolutional Neural Networks	Mohammad Mohammadi Nasab	
1176	NOMA-SWIPT optimization with PSO and machine learning algorithm	Arshia Saeidifar Khashayar Saremi Bahareh Akhbari	



Thursday		Hall: H1	Date: 10 Oct
CT7			Time: 14:30- 16:00
Antennas and Devices for Wireless Comm.			
Session chairs: Hadi Aliakbarian, Reza Faraj-Dana, Narges Nouri			
Paper id	Title of paper	Authors	
1080	Broadcast beam synthesis in an 8T8R array in TD-LTE and Sub-6GHz 5G band	Atiyesadat Seyyedsabour Reza Asadi Mehdi Taherkhani Hadi Aliakbarian	
1148	A Sparse Multi-static Circular Array for Millimeter Wave Imaging system	Mohammad Reza Moravejolahkami Hojatollah Zamani Mohammad Fakharzadeh	
1135	Wide-Band Dual-Polarized BTS Antenna Using Crossed-Dipole with Parasitic Elements	Hamid Zakerifar Javad Nourinia Changiz Ghobadi	
1145	Reconfigurable and Tunable Iris Filter Based on Plasma Technology	Atefeh Ashrafian Fatemeh Sadeghikia Jalil agha Rashed mohassel	
1058	Capacity Maximization for Double Reconfigurable Intelligent Surface -Assisted MIMO System	Mina Jadidi Kamal Mohamed-Pour Ahmad Sirojuddin	



Thursday		Hall: H3	Date: 10 Oct
IT4			Time: 14:30- 16:00
Services and Platforms			
Session chairs: Mohammad Reza Ahmadi, Reza Azmi, Eslam Nazemi			
Paper id	Title of paper	Authors	
1061	CNN Accelerator Adapted to Quasi Structured Pruning and Dense Mode Using FPGA	Hossein Gharaee	
1238	Trust Analysis Improvement Through Deep Learning for Signed Social Networks	Shayan Karami Fattaneh Taghiyareh	
1026	Measuring the social influence for retweet behavior prediction in microblogging network	Rahebeh Mojtahedi safari Amir Masoud Rahmani Sasan H.Alizaeh	
1079	Analysis of Half-Duplex Two-Node Slotted ALOHA Network with Asynchronous Traffic	Seyed Ali Hashemian Farid Ashtiani	

Poster Sessions
Time Table





Wednesday		Hall: H4	Date: 9 Oct
Poster Session 1			Time: 9:45-10:45
Future Networks, Systems & Technologies part 1- Security			
Future Networks, Systems & Technologies part 1			
Poster Session chairs: Reza Kalantari, Leyla Mohammdi			
Paper id	Title of paper	Authors	
1147	Federated Learning: Attacks, Defenses, Opportunities and Challenges	Ghazaleh Shirvani Saeid Ghasemshirazi Behzad Beigzadeh	
1193	A Novel Fault-Tolerant Method for Securing IoT Networks Against DDoS Attacks	Hashem Abdi Behrooz Shahrokhzadeh Mohammad Mehdi Gilanian Sadeghi	
1201	A Novel Bidirectional Distributed Cross Domain Solution Architecture	Sajjad Ansariyan Mohammadali Doostari	
1243	MOLSBM: A Multi-Objective LSB Matching Steganography Method	Vajiheh Sabeti Sepideh Faiazi	
1004	Design a Multi-layer Dielectric Lens with Beam Scanning Capability for 5G Communication System	Aryan Haidary Sina Rahmani Charvadeh Javad Ghalibafan	
1015	Machine learning algorithms with Multi-Criteria-Decision-Making for cell outage detection in 5G / B5G	Reza Moammer Yami Ali Akbar Khzaei Saeed Rahati Quchani	
1027	Analytical Performance model for Sliced 5G core network	Touraj Shabaniyan Boroujeni Amin Ghalami Osgouei	
1028	Analytical Performance model for Hyperledger Fabric for Communication Technology use cases	Amin Ghalami Osgouei Touraj Shabaniyan Boroujeni	



Wednesday		Hall: H4	Date: 9 Oct
Poster Session 1			Time: 9:45-10:45
Future Networks, Systems & Technologies part 1- Security			
Future Networks, Systems & Technologies part 1			
Poster Session chairs: Reza Kalantari, Leyla Mohammdi			
			Mehdi Samie Katayoun Bamasian
1038	Impact of QoS and Task Processing on IoT Edge Energy Consumption		Asghar Mohamadian Sam Jabbehdari AmirMasoud Rahmani Houman Zarrabi
1054	A Machine learning-based approach for multi-class intrusion detection and Classification in IOT using CICIoT2023 Dataset		Zohreh Hafezian Marjan Naderan Morteza Jaderyan
1057	Taxonomy of Blockchain Solutions to Connected and Autonomous Vehicles		Mohammad Reza Jabbarpour Houman Zarrabi
1060	Blockchain Security Threats: Survey		Hossein Gharaee Mani Asgari Rouzbahani
1063	Insurance of liability for self-driving cars		Hussein Taleb Mohammad Hadi Bokaei Davood Heidari kani Farbod Rabizadeh Fard Elham Rafati Neda Nedaei
1066	Compact Wideband Circularly Polarized Printed Monopole Antenna		Mubarak Sani Ellis Javad Nourinia Changiz Ghobadi Keyhan Hosseini Farzad Alizadeh Bahman Mohammadi



Wednesday		Hall: H4	Date: 9 Oct
Poster Session 1			Time: 9:45-10:45
Future Networks, Systems & Technologies part 1- Security			
Future Networks, Systems & Technologies part 1			
Poster Session chairs: Reza Kalantari, Leyla Mohammdi			
1072	The cost of renting a fiber network from one operator to another in Iran	Reza Mehri Davoud Ranjbarrafie Elham Ziaejpour	
1081	Constrained Utility Driven Graph Summarization	Shadie Azizi Hadi Zare Sasan Hossein Alizadeh	
1083	Frame Synchronization In Underwater Acoustic Communication Based on Convolutional Neural Network	Ali Sedaghat Khankahdani Ali Jamshidi	
1089	A Study on Vehicular Visible Light Communication Using Amplify and Forward Relay Node	Hossein Goorani Gholamreza Baghersalimi	
1092	Kuhn-Munkres-Based Suboptimum Resource Allocation Algorithm for Ultra Dense Networks	Shahriar Shirvani Moghaddam Ebrahim Ashoor	
1098	LSTM-based Framework for 5G Resource Allocation Prediction	Amin Pourmahbobi Hamed Tabrizchi	
1101	A New Method to Improve NDN Forwarding Packets Using SDN	Mahdi Darvishnezhad Mohammad Yousef Darmani	



hursday		Hall: H4	Date: 10 Oct
Poster Session 2			Time: 9:45-10:45
Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment			
Poster Session chairs: Ali Kheirdoost, Niloufar MoradHasel			
Paper id	Title of paper	Authors	
1023	Improving SEO System for Iranian Commercial Website Rankings using Fuzzy Inference System	Yasamin Farjadian Gholam Ali Montazer Yeganeh Sattari	
1036	The application of IoT devices in evidence collection and preservation In legal investigations In the common law legal system of Western countries	Narges Mahmoudi Jabber Ghasemi	
1052	Simulation of Cell Movement Control by Magnetophoretic Chips	Mohammadreza Yousefi Mohammad Taheri	
1084	Providing the Optimal Structure of Computer Emergency Response Teams Based on Service And Process	Reza Kalantari Nasrin Taaj Mohsen Babaei	
1088	An overview of the components of digital transformation from the perspective of models and frameworks presented in international reports	Seyyed Mohammadhossein Alipour Atefeh Farazmand Farshad Hakamizadeh	
1107	Analyzing the Challenges and Opportunities of Generative Artificial Intelligence in Iran's Banking Industry	Niloufar Moradhasel Mohammad Kazem Sayadi Mohamad shahram Moin	



Thursday		Hall: H4		Date: 10 Oct	
Poster Session 2				Time: 9:45-10:45	
Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment					
Poster Session chairs: Ali Kheirdoost, Niloufar MoradHasel					
1116	OODA-Based Architectural Framework for a National Cyber Crisis Management Center With ISAS Integration	Fatemeh Imanimehr Alireza Enayati Marjan Bahrololum			
1171	Key Performance Indicators in Information Sharing and Analysis Centers (ISAC)	Fatemeh Valinezhad Afsaneh Madani			
1224	The effect of the expansion of information and communication technology on energy consumption with an emphasis on the role of institutional quality	Seyed Mohammad Amin Aleyasin Amir Hossein Mozayani			
1241	Identification and Analysis of Information Dissemination on Social Networks with a Focus on Instagram	Ahmad Ghasemi Zohre Mafi Mojtaba Mazoochi			
1109	Classification of Congestive Heart Failure Disease, Arrhythmias, And Normal Heart Rhythms Using Deep Learning	Nafiseh Batavani Mohammad Reza Yousefi			
1125	Array of Conformal Cavity-Backed Slot Antenna With Switched Beam Pattern for IoT Devices	Mohammad Bod Ehsan Koohkan Seyed hesamodin Najmolhoda			



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Poster Session 2		Time: 9:45-10:45
Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment		
Poster Session chairs: Ali Kheirdoost, Niloufar MoradHasel		
1143	Decentralized Federated Deep Reinforcement Learning Framework for Energy-Efficient Base Station Switching Control	Narges Movahed Reza Shahbazian
1144	Analytical Approach for Characterizing Discontinuity in Transmission Lines through Time-Domain Reflectometry (TDR) Method with Quadratic Loads	Sepehr Sahab Hamidreza Bashiri Gholamreza Moradi
1163	Deep Reinforcement Learning for AoI-aware Transmission Control in Energy-Harvesting Grant-Free NOMA IoT Networks	Marzieh Sheikhi Vesal Hakami Houman Zarrabi
1172	Improved Performance of Cell-Free NOMA Networks Employing Common-User Clustering	S. Ali Mousavi Mehdi Monemi Reza Mohseni
1177	Miniaturized Printed X-Band Magneto-Electric Dipole Antenna by Loading Parasitic Elements	Morteza Behbudi Javad Nourinia Changiz Ghobadi
1180	Developing 3D CAD Models and Low-Cost Hardware for Learning New Topics in Telecommunication Laboratories	Jamal Kazazi Mahmoud Kamarei
1181	Two-Dimensional Slot Array on a Nonplanar Gold film Metasurface, Designed for Melanoma Skin Cancer Detection	Amirsaman Zare Andalani Nosrat Granpayeh Sajad Zare Andalani



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				Naghme Sadat Moaiedi	
1197	Deep Reinforcement Learning-Driven Resource Allocation for Enhanced Performance in Multiple Access Networks			Mehran Kakavand Mina Baghani Hassan Yeganeh Reza Bahri	
1198	Ridge Waveguide Technology and Ridge Gap Waveguide Technology: A Comparison			Abbas Karimi Nobandegani Parisa Mahdavi Reza Bahri S. Esmail Hosseini	
1199	Control of UAVs Over Noisy Communication Channel			Somayeh Dolatkah takloo Alireza Farhadi Ali Khaki sedigh	
1203	Countering Physical Adversarial Attacks in Semantic Communication Networks: Innovations and Strategies			Maedeh Fallahreyhani Paeiz Azmi Nader Mokari	
1209	Improve Quality of Systems via Dynamic Cost-Aware Selection of Web-Services			Ali Jahani Fattaneh Taghiyareh	
1212	Shot Noise Optimal Filters for Phase-Diversity Homodyne Receivers			Mohammad Sheikhbahaei Amir R. Forouzan	
1235	A Review of Feature Selection Methods for Disease Risk Prediction and healthcare			Fatemeh Mohammadi	



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Future Networks, Systems & Technologies part2 Empowerment & Enabling Environment					
Poster Session chairs: Ali Kheirdoost, Niloufar MoradHasel					
1250	Millimeter-Wave Polarization Dynamics for Non-Invasive Vital Signs Monitoring: A Comprehensive Analysis			Mostafa Hosseinpour Niari Zahra Ghattan Kashani	
1265	A Novel Electronic Voting system using a Blind Signature scheme and Blockchain			Elahe Mehraban T. Aaron Gulliver Reza Atani Evren Hincal	
1266	DOA Estimation in FMCW Automotive Radars with Interference: ML and VMD Approaches			Alireza Zaherfekar Mohammad Javad Ghoreishian Ataollah Ebrahimzadeh	



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Poster Session 3			Time: 15:30 – 16:30
Services, Platforms & Devices			
Poster Session chairs: Mahmoud Kharrat, Alireza Mansouri			
Paper id	Title of paper	Authors	
1010	Opportunities and Challenges Artificial Intelligence in Pharmacology	Jafar Abdollahi Omid Mehrpour	
1029	CareCompass: Monitoring made easy, Care made effective	Prabal Manhas Joydeep Chandra	
1047	Optimum Patch Selection for Wideband Planar Spoof Surface Plasmon Polaritons Ku-Band Satellite Receive Antenna	Mahdi Siasifar Asghar Keshtkar Sherwin Amiri	
1077	Estimating Earthquake Magnitude using Simple Deep Learning Methods	AmirReza Malakutifar Nasser Mozayani Sajjad Kazem Shiroodi Omid Saeidi	
1082	LLM Performance Assessment in Computer Science Graduate Entrance Exams	Arya VarastehNezhad Reza Tavasoli Mostafa Masumi Fattaneh Taghiyareh	
1097	GN-CNN-LSTM: Financial Market Prediction With Gaussian Noise Embedded CNN LSTM	Mahsa Abbasi Masoud Kargar Fatemeh Ahmadian Deniz NoormohammadZadehMaleki Amirhossein Arandan Nayer Seyed Hosseini	



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Paper id	Title of paper	Authors	
1111	Smart Border Wall Condition Monitoring Using Fiber Bragg Grating (FBG) Sensors	Mohammad Reza Hedayati Hasan Yeganeh Davood Ranjbar	
1124	Proposing a Novel Assessment Framework for Evaluation of Public Cloud Service Providers	Davood Maleki Ehsan Arianyan Neda Ghorbani	
1131	Large Language Model (LLM) for Estimating the Cost of Cyber-attacks	Hooman Razavi Mohammad Reza Jamali	
1140	Detection and Classification of Stuttering from Text	Fateme Moghimi Mehran Yazdi	
1154	Boundary Detection in Agricultural Fields Using a Residual U-Net++ Architecture	Mehdi Alizadeh Parvin Ahmadi Masomeh Azimzadeh	
1162	A Low-Cost Passive Thermal IR Imaging System for Automated Hidden Object Detection Using AI	Mohammad Javad Amiri Saman Ghazanfari Mohammad Parsa Mirzaei Sarmad Mohammad Fakharzadeh	
1194	Proposing a Reliable and Fault-Tolerant Routing Algorithm for IoT Sensor Networks Using Poisson Distribution	Hashem Abdi Masoumeh Shiri Behrooz Shahrokhzadeh	



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1200	A review of current research in automatic fetal brain segmentation from MRI using deep learning			Nazanin Valaee Vajiheh Sabeti	
1228	Modified Double-DQN: addressing stability			Shervin Halat Mohammad Mehdi Ebadzadeh Kiana Amani	
1231	Optimizing the Computational Offloading in the Mobile Edge Computing to Reduce the Transfer Time			Sorraya Gharravi Seyed Morteza Babamir	
1237	Efficient Diffusion Models in Wavelet Space			Iman Goudarzvand Amir Masoud Eftekhari Moghadam	
1239	Evaluating LLM-Generated Persian Questions for Teaching Conditional Programming Using Bloom's Taxonomy			Marzieh Alidadi Fattaneh Taghiyareh Narges Shahhoseini	
1245	Analyzing The Impact Of Sleep Quality On Cognitive Abilities Using Game-Based Assessment			Mohsen Mahmoudi Fattaneh Taghiyareh Farbod Bijary Amirali Shahrari	
1246	Lifetime Enhancement in Wireless Body Area Networks Using Spare Nodes			Mehdi Goldust Reza Ebrahimi Atani	



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1252	EngageMe: Enhancing Academic Performance While Watching Video Learning Objects Using Visual Modifications	Mohsen Mahmoudi Fattaneh Taghiyareh Abtin Hidaji	
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1254	Introducing a Semantic Model for Smart Composition of E-Learning Content	Narges Shahhoseini Fattaneh Taghiyareh Kambiz Badie	
1258	Proposing a Comprehensive Method for Extracting Monitoring Indicators for Cloud Service Layers	Davood Maleki Neda Ghorbani Ehsan Ariyanan Alireza Mansouri	
1260	Implementation Sentences Attention Mechanism in online reviews	Mahnaz Azmayande Shahram Jamali Leila Rabiee Behnam Parastar	
1270	Quantum Algorithms and Hybrid Solutions for Real-Time Vision Applications: Evaluation and Comparison	Mahdi Seyfipoor Mohammad Javad Samii Zafarqandi Siamak Mohammadi	

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