1st

International Congress
on **Artificial Intelligence**
in **Medical Sciences**

AIMS 2023

AIMS 2023 — KISH ISLAND, 17-19 May.

دانشگاه علوم پزشکی **هوشمند**
Smart University of Medical Sciences

سازمان منطقه آزاد کیش

جمهوری اسلامی ایران
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The First International Congress
on Artificial Intelligence in Medical Sciences

دانشگاه علوم پزشکی هوشمند
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AIMS 2023
KISH ISLAND, 17-19 May

First Day (Wednesday, May 17, 2023): Persian Gulf Hall

No.	Time	Speaker	Affiliation	Topic
Session 1: General Principles and Policy Making in AI				
Panel Chairman: Prof. Mohammad Taghi Joghataei & Dr. Babak Sabet				
1	8:30-8:50	Dr. Mohammad-Shahram Moin	AI Center, ICT Research Institute	AI and ICT Infrastructures in Smart Hospitals
2	8:50-9:10	Dr. Muhammad Afzal (on line)	WHO, Pakistan	Policy principle for artificial intelligence in medicine (and healthcare)
3	9:10-9:30	Dr. Behrouz Minaei-Bidgoli	Iran University of Science and Technology	Explainable AI in health and medicine
4	9:30-9:50	Dr. Seyed Reza Mazhari	Management of Statistics and Information Technology Center, Ministry of Health and Medical Education of Iran	Artificial intelligence in health system managers
5	9:50-10:10	Question and Answer Session		
6	10:10-10:30	Coffee Break		
Session 2: Personalized Medicine				
Panel Chairman: Dr. Abdolreza Pazouki & Prof. Alireza Zali				
7	10:30-10:50	Dr. Kaveh Kavousi	University of Tehran	Systems biology: importance, concepts, and applications in personalized medicine
8	10:50-11:10	Prof. Horacio Emilio Pérez Sánchez (on line)	University Católica de Murcia, Spain	SIBILA: High-performance computing and interpretable machine learning join efforts toward personalized medicine in a novel decision-making tool
9	11:10-11:30	Dr. Ahmad Vaez	Isfahan University of Medical Sciences	Systems Biomedicine: Computational Modeling of Complex Biomedical Systems
10	11:30-12:00	Question and Answer Session		
11	12:00-13:00	Praying and Lunch		
Session 3: Biomedical Image Processing				
Panel Chairman: Prof. Abolfazl Bagherifard, Prof. Yunes Panahi & Prof. Arash Khojasteh				
12	13:00-13:40	Prof. Hamid Soltanian Zadeh	Henry Ford Health System, USA	Reconstruction and Analysis of Medical Images Using Artificial Intelligence Techniques
13	13:40-14:20	Prof. Hossein Rabbani	Isfahan University of Medical Sciences	Medical Image Modeling in AI Algorithms
14	14:20-15:00	Dr. Ahmad Shalbaf	Shahid Beheshti University of Medical Sciences	Convolutional neural network in medical image processing
15	15:00-15:30	Question and Answer Session		
16	15:30-16:00	Coffee Break		
17	16:00-16:15	Opening Ceremony		
18	16:15-16:30	Prof. Arash Khojasteh		
19	16:30-16:45	Prof. Nasser Simforoosh		
20	16:45-17:00	Prof. Yunes Panahi		
21	17:00-17:15	Prof. Abolfazl Bagherifard		
22	17:15-17:30	Prof. Bahram Eynollahi		
23	17:30-17:45	Dr. Mohammad Bagher Ghalibaf		

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Second Day (Thursday, May 18, 2023): Persian Gulf Hall

No.	Time	Name	Affiliation	Topic
Session 1: Biomedical Signal Processing				
Panel Chairman: Prof. Hamid Soltanian Zadeh				
1	8:30-8:50	Prof. Ram Bilas Pachori	Indian Institute of Technology Indore, India	Multichannel signal processing enabled artificial intelligence for diagnosis of brain disorders
2	8:50-9:10	Dr. Hamid Reza Marateb	University of Isfahan	Cross-frequency coupling and its application in digital health
3	9:10–9:30	Prof. Reza Boostani	Shiraz University	Computer-aided diagnosis systems: achievements and challenges
4	9:30-9:50	Dr. Zohreh Azimifar	University of Shiraz (University of Waterloo)	Human Brain, New AI Solutions, and Medical Imaging
5	9:50-10:10	Question and Answer Session		
6	10:10-10:30	Coffee Break		
Session 2: AI in Systems Biology				
Panel Chairman: Dr. Ahmad Vaez				
7	10:30-10:50	Prof. Changiz Eslahchi	Shahid Beheshti University	Applications of machine learning methods in drug discovery for complex diseases
8	10:50-11:10	Prof. Soroush Sardari	Pasteur Institute of Iran	AI and Pharma
9	11:10-11:30	Prof. Abdolhassan Kazemi	Tabriz University of Medical Science	Synthetic biology, Artificial intelligence, Alive machine
10	11:30-12:00	Question and Answer Session		
11	12:00-13:00	Praying and Lunch		
Session 3: AI in Surgery				
Panel Chairman: Prof. Nasser Simforoosh				
12	13:00-13:20	Prof. Andrew A Gumbs (on line)	Yvelines Nord Region, France	White paper: Definitions of artificial intelligence and autonomous actions in clinical surgery
13	13:20-13:40	Dr. Alireza Amin Sharifi	Penn State University, USA	AI in urology practice with focus on predicting the outcomes of surgery, automation and robotic surgery
14	13:40-14:00	Dr. Shahram Paydar	Shiraz University of Medical Sciences	In what fields AI can help surgeons?
15	14:00-14:30	Question and Answer Session		
16	14:30-15:00	Coffee Break		
Session 4: AI Aspects in Medical Education				
Panel Chairman: Prof. Gholam Reza Hasanzadeh & Dr. Abtin Heydarzadeh				
17	15:00-15:20	Dr. Babak Sabet	Shahid Beheshti University of Medical Sciences	AI significance in personalized learning
18	15:20-15:40	Dr. Hanieh Zehtab Hashemi	Smart University of Medical Sciences	Identification of similar questions using AI approaches: NLP in the question bank
19	15:40-16:00	Dr. Soleiman Ahmadi	Shahid Beheshti University of Medical Sciences	Artificial Intelligence implication and application in medical education: from theory to practice.
20	16:00-16:20	Dr. Masoud Ferdosi	Isfahan University of Medical Sciences	Review the roles of teacher and student in education and research in ChatGPT era
21	16:20-16:40	Dr. Ebrahim Kalantar	Smart University of Medical Sciences	AI and electronic dashboard
22	16:40-17:00	Question and Answer Session		

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Third Day (Friday, May 19, 2023) : Persian Gulf Hall

No.	Time	Name	Affiliation	Topic
Session 1: AI Aspects in Medical Education				
Panel Chairman: Dr. Soleiman Ahmadi				
1	8:30 – 8:45	Prof. Gholam Reza Hassanzadeh	Tehran University of Medical Sciences	AI in medical education scope: A future prospect
2	8:45- 9:00	Dr. Aeen Mohammadi	Tehran University of Medical Sciences	Equipping future health care professionals with knowledge in AI, Why and How
3	9:00 - 9:15	Dr. Abtin Heydarzadeh	Guilan University of Medical Sciences	Application of artificial intelligence in educational assessment and evaluation
4	9:15 -9:30	Dr. Mahdi Aghabagheri	Yazd University of Medical Sciences	AI vitality in educational trend analysis
5	9:30-9:45	Question and Answer Session		
6	9:45-10:05	Coffee Break		
Session 2: Electronic Health				
Panel Chairman: Prof. Reza Boostani & Prof. Hossein Rabbani				
7	10:05-10:20	Dr. Saeid Eslami	Mashhad University of Medical Sciences	Medical informatics and artificial intelligence in medicine from theory to application, more than 20 years' experience
8	10:20-10:35	Dr. Ehsan Nabovati	Kashan University of Medical Sciences	The importance and methods of stakeholders' engagement in design and development of e-Health interventions
9	10:35-10:50	Dr. Reza Ferdousi	Tabriz University of Medical Sciences	Application of machine learning in designing biomedical sensors
10	10:50-11:05	Dr. Mehdi Gheisari	Harbin Institute of Technology, China	Electronic Health
11	11:05-11:15	Question and Answer Session		
Closing Ceremony				
12	11:15-12:00	• Appreciation from the top three active Iranian universities in the field of Artificial Intelligence in Medical Sciences • Awarding prizes to the best posters and oral presentations • Awarding prizes to the winners of Artificial Intelligence contests • Closing Speech		
13	12:00–14:00	Praying and Lunch		

First Day (Wednesday, May 17, 2023)

Mulla Sadra Meeting Hall

NO.	Workshop run by	Topic	Time
1	Prof. Mehdi gheisari	The privacy-preservation of Internet of Medical Things	10:00-12:00
2	Dr. Mohammad Shahram moin	Medical data privacy preserving in AI-based systems	14:00-16:00

Razi Summit Hall

NO.	Workshop run by	Topic	Time
1	Prof. Ram Bilas Pachori	Machine learning for brain signal analysis and classification for computer-aided medical diagnosis	10:00-12:00
2	Dr. Mohammad mehdi Sadoughi	The role of artificial intelligence in ophthalmology	14:00-16:00

Kharazmi Conference Hall

NO.	Workshop run by	Topic	Time
1	Dr. Soroush Sardari	Q&A on drug discovery and design startegies	10:00-12:00
2	Dr. Shahriyar Eslamitabar	Ethical and legal requirements for artificial intelligence in the health system	14:00-16:00

Second Day (Thursday, May 18, 2023)

Mulla Sadra Meeting Hall

NO.	Workshop run by	Topic	Time
1	Dr. Saeid Eslami	prognostics models-computer assisted diagnosis : using image processing	10:00-12:00
2	Dr. Hamidreza Marateb	clinical prediction models for reliable prognosis	14:00-16:00

Razi Summit Hall

NO.	Workshop run by	Topic	Time
1	Dr. Seyed Ahmad Ahmadi	AI in health policy & leadership	10:00-12:00
2	Dr. Gholamreza Hassanzadeh	Technology enhanced learning in anatomy	14:00-16:00

Kharazmi Conference Hall

NO.	Workshop run by	Topic	Time
1	Dr. Hamidreza Dehghan	Smart cardiac report: faster input better output، smarter care	10:00-12:00
2	Prof. Hamid Soltanian Zadeh	Diagnosis and Prognosis of Temporal Lobe Epilepsy Using Artificial Intelligence Analysis of Medical Images	14:00-16:00

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AIMS 2023

1. **Advanced Medical Technologies**
2. **AI in Medicine**
3. **Intelligent Health**
4. **Smart Medical Solutions**
5. **Other Issues**

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