



Translational Ophthalmology Research Center Farabi Eye Hospital Tehran University of Medical Sciences

Scientific Secretary: Hamid Riazi MD Executive Secretary: Masoud Khorrami-Nejad PhD

Subject	Speaker	Time	Affiliation
Artificial Intelligence in Retinal Disorders	Reza Mirshahi MD MPH	16:20 -16:35	Eye Research Center, The Five Senses Institute, Rassoul Akram Hospital, Iran University of Medical Sciences
Artificial Intelligence in Nanomedicine	Mojdeh Mohseni PhD	16:35 -16:45	Member of Scientific Group of Radiobiology Center, Iran University of Medical Sciences Universal Council of Ophthalmology: UCO
5G Applications in Healthcare and Medical Sciences	Hamidreza Bolhasani PhD, Data Scientist	16:45 -16:55	Mobile Communication Company of Iran: MCCI





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ROBOTICS						
17:30 – 19:00 (Tehran IR)						
Moderators Hamid D Taghirad PhD, Alireza Lashay MD, Seyed Farzad Mohammadi MD MPH FICO						
Subject	Speaker	Time	Affiliation			
1st part -Ophthalmo-Robotics: An Evolving Horizon						
Translating Ocular Surgery into Engineering Concepts	Seyed Farzad Mohammadi MD MPH FICO	17:30 -17:40	Tehran University of Medical Sciences			
Robotic-Assisted Eye Surgery	Hamid D Taghirad PhD	17:40 -17:50	K N Toosi University of Technology			
2nd part - ARASH-ASiST System for Vitreoretinal Surgery Training						
Vitreoretinal Surgical Training Challenges	Hamid Riazi Esfahanai MD	17:50 -18:00	Tehran University of Medical Sciences			
ARASH-ASiST: ARAS Haptic System for EYE Surgery Training	Mohammad Motaharifar PhD	18:00 -18:20	University of Isfahan			
3rd part – AI and VR in Eye Surgery Training System						
Cataract Surgery Training Complications	Parisa Abdi MD	18:20 -18:30	Tehran University of Medical Sciences, Tehran, Iran			
Eye Surgery Training Prospects: Toward VR Development	Alireza Norouzzadeh PhD	18:30 -18:50	K. N. Toosi University of Technology			
Data Mining and AI in Surgery Skill Assessment	Elham Ashrafi PhD	18:50 -19:00	Tehran University of Medical Sciences			





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Image Processing: An Introductory Workshop						
19:30 -21:30 (Tehran IR ) – "language: Persian"						
Moderators Hossien Arabalibeik PhD, Raheleh Kafieh PhD, Elias Khalili Pour MD						
Subject	Speaker	Time	Affiliation			
An Overview of Medical Image Processing and Analysis	Tahereh Mahmoudi, PhD Candidate	19:30 -19:45	Tehran University of Medical Sciences			
Introduction of Image	Elias Khalilipour MD	19:45-19:55	Tehran University of Medical Sciences			
Image Enhancement and Denoising	Zahra Amini PhD	19:55-20:10	Isfahan University of Medical Sciences			
Image Segmentation	Raheleh Kafieh PhD	20:10-20:25	Isfahan University of Medical Sciences			
Morphological Operations	Mahdad Esmaeili PhD	20:25-20:35	Tabriz University of Medical Sciences			
Image Classification	Mahdad Esmaeili PhD	20:35-20:45	Tabriz University of Medical Sciences			
Registration and Fusion	Tahereh Mahmoudi PhD	20:45-20:55	Tehran University of Medical Sciences			

