10th Seminar
Translational Ophthalmology

by Int'l Experts Participation

online

Dec 11, 2020

03:00 PM - 09:00 PM

Tehran Time

AI & Corneal Ectasia

Renato Ambrósio Jr
MD PhD

AI & the Future

Arshin Adib-Moghaddam
PhD

Artificial Intelligence

Image Processing

Robotics

Join Zoom Meeting
SCAN ME

Meeting ID: 937 5243 0718

Passcode: TUMS

TORC, Farabi Eye Hospital, TUMS

ISRS

ARAS
HI-TECH ROBOTIC SOLUTIONS
ADVANCED ROBOTICS & AUTOMATED SYSTEMS

OnLine

Look @ the Future

#AI #Robotics #ImageProcessing

10th Translational Ophthalmology Seminar

11th Dec 2020 | 3:00 PM-9:00 PM (GMT+3:30)

Moderators & Speakers

Renato Ambrósio Jr MD PhD

Hamid Riazi Esfahanai MD
Scientific Secretary

Masoud Khorrami-Nejad PhD
Executive Secretary

Arshin Adib-Moghaddam PhD

Alireza Lashay MD

Hamid D Taghirad PhD

Seyed Farzad Mohammadi MD MPH

Ahmad Mirshahi MD

Hossein Arab Ali Beik PhD

Raheleh Kafieh PhD

Soheil Adib-Moghaddam MD

Elham Ashrafi PhD

Parisa Abdi MD

Elias Khalilipour MD

Reza Mirshahi MD MPH

Mohammad Motaharifar PhD

Alireza Norouzzadeh PhD

Sare Safi PhD

Zahra Amini PhD

Hamidreza Bolhasani PhD

Mojdeh Mohseni PhD

Pouya Sojoudi MSc

Moein Bahman PhD Candidate

Mahdad Esmaeili PhD

Tahereh Mahmoudi PhD Candidate

Join Seminar: zoom

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TORC | UCO | ISRS | Farabi Eye Hospital | TUMS | ARAS

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

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

10th Translational Ophthalmology Seminar – 11 Dec 2020
Robotics, Artificial Intelligence, and Image Processing

Greeting 15:00 - 15:10			
Subject	**Speaker**	**Time**	**Affiliation**
Keynote lecture "AI & the Future"	Arshin Adib-Moghaddam PhD	15:10 -15:30	SOAS University of London
Artificial Intelligence			
15:30 – 17:00 (Tehran IR)			
Moderators Soheil Adib-Moghaddam MD, Renato Ambrósio MD, Ahmad Mirshahi MD			
Enhanced Diagnostics for Corneal Ectasia: The Role of AI	Renato Ambrósio Jr MD PhD	15:30 -15:50	Adjunct Professor of the Federal University of the State of Rio de Janeiro (UniRio) Brazil President of the ISRS
Future of AI in Ophthalmology	Pouya Sojoudi MSc AI Researcher and Entrepreneur	15:50 -16:00	Founder of Hash-Tech LLC. Munich Universal Council of Ophthalmology: UCO
Artificial Intelligence for Anterior Segment Diseases: Emerging Applications in Ophthalmology	Moein Bahman PhD Candidate	16:00 -16:10	Tehran University of Medical Sciences Universal Council of Ophthalmology: UCO
Progress of Artificial Intelligence in Diabetic Retinopathy	Sare Safi PhD	16:10 -16:20	Ophthalmic Epidemiology Research Center, Research Institute for Ophthalmology and Vision Science, Shahid Beheshti University and Medical Sciences

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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

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