

Dissecting Artificial Intelligence in Surgery

Open-Source Research collaboration

and

Department of Surgery

Government Medical College, Srinagar, J&K, India

28-29th October 2022



N.B. Please, bring your personal computer or tablet with you to the workshop. You are going to use it in the group exercises

Preliminary workshop program

Day 1: Friday 28 th October 2022		
Introduction to knowledge theory	Alaa El-Hussuna	9:00-9:15
The mathematical basis of AI	Alaa El-Hussuna	9:15-09:30
Key considerations before implementation of AI	Alaa El-Hussuna	9:30-9:45
Deep learning models for prediction of cancer	Muzafar Rasool	9:45-10:00
Computer vision and human anatomy project	Alaa El-Hussuna	10:00-10:15
AI in medical research: Current trends & future possibilities	Assif Assad	10:30-10:45
Simulation in mechanics	Ahmad AbdulAzeez	10:45-11:00
Big data mining in developing countries setting	Vang Le Quy	11:00-11:15
Setting group exercises 1	Facilitators	11:15-12:00
Lunch break & Friday prayer		12:00-14:00
Inaugural session	TBA	14:00-15:00
Presentations of group exercise 1	Facilitators	15:00-16:00
Artificial intelligence in surgery	Manish Chand	16:00-16:10
Artificial intelligence in uro-oncology	Mufti Mahmood	16:10-16:20
The future of mini-invasive surgery	TBA	16:20-16:30
Intelligent Robotic surgery	Venkatesh Munikrishnan	16:30-16:40
Social media and medical research	Nikki Christou	16:40-16:50
Crowd science and collaboration in research	Muhammad El-Hadi	16:50-17:00
Setting group exercises 2		17:00-17:30
Day 2: Saturday 29 th October 2022		
Computer simulation models	Alaa El-Hussuna	9.00-9:15
Synthetic and augmented data	Hardik J Pandya	9:15-9.30
Ethics in Artificial intelligence	Sonal Asthana	9:30-09:45
Can research generate income? start-ups in healthcare	Narasimhan Srinivasaiah	9:45-10:00
Micro engineered devices and systems	Hardik J Pandya	9:45-10:00
Challenges in funding of AI medical projects	ICMR	10:00-10:50
Application of AI in Operating Room	M R Attri	10:50-11:00
Presentation of exercise 2 by the groups	Facilitators	11:00-12:30
Lunch break		12:30-13:00
The role of telemedicine	Faisal Kawoosa	13:00-13:15
Building AI innovation centre: key considerations	Jara Pascual	13:15-13:30
Collaboration between academia and industry	Asif Mehraj	13:30-13:45
Conducting research beside clinical work	Pawan Mathur	13:45-14:00
Panel discussion "Challenges in implementing AI in Healthcare in J&K"	Commissioner Health, IT in J&K Govt, VC IUST, Principal GMC, speakers & audience	14:00-15:00
Illustration of some AI technologies	IUST team	15:00-16:00
About OSRC projects	Alaa El-Hussuna	16:00-16:30
Feedback and closing remarks	Asif Mehraj & Alaa El-Hussuna	16.30-17:00
Assignments to OSRC projects	Facilitators	17:00-18:00