ARTIFICIAL INTELLIGENCE IN SURGERY

SRS 2024

FRIDAY, JUNE 21 • PLUMERIA C & D

COURSE DIRECTORS: Andrew Hung and Vipul Patel
COURSE CHAIRS: Todd Heniford (Director of MIS, Atrium Health),
Pegah Khosravi (Assistant Professor of Biomedical AI, CUNY), Tony Jarc (Intuitive Surgical)

Time	Session
7:30am - 7:35am	**Introductions** *Todd Heniford, Pegah Khosravi, Tony Jarc*
	PRIMER SESSIONS
7:45am - 8:00am	**The Basics: What is AI/Machine Learning/Deep Learning/Generative AI?** *Dani Kiyasseh, DPhil*
	BROAD USES OF AI IN MEDICINE
8:00am - 8:15am	**Large Language Models to Extract, Analyze, and Produce Textual Data** *Jack Cavanagh (MIT/Poverty Lab)*
8:15am - 8:30am	**Generative AI Applications in Surgery** *Pieter de Backer (Orsi Academy)*
	AI IN SURGERY
8:30am - 8:50am	**Keynote Speaker: Teodor Grantcharov - Black Box**
	SURGICAL DATA SCIENCE
8:50am - 9:05am	**Creating an Algorithm for Surgical Data** *Pegah Khosravi*
9:05am - 9:20am	**AI in Surgical Data / Skills Assessment** *Andrew Hung (Cedars)*
9:20am - 9:35am	**Kinematic and Video Data to Predict Clinical Outcomes** *Filippo Filicori (Northwell Health)*
9:35am - 9:50am	**AI in Surgical Data in Neurosurgery** *Dan Donoho (Neurosurgery - National Children's Hospital)*
9:50am - 10:05am	**BREAK**
	APPLICATIONS OF SURGICAL DATA SCIENCE
10:05am - 10:20am	*Nadine Haram (Proximie)*
10:20am - 10:35am	**From Surgical Video to Surgical Intelligence: Leveraging AI to Unlock Value** *Tamir Wolf (Theator)*
10:35am - 10:50am	*Tony Jarc PhD (Intuitive)*
10:50am - 11:05am	**Method AI** *Doug Teany*
11:05am - 11:20am	**Levita** *Chauncey Graetzel*
11:20am - 11:35am	**NVIDIA** *Mostafa Toloui*
11:35am - 11:50am	**Medtronic** *George Murgatroyd*
11:50am - 12:05pm	**Johnson and Johnson** *Shan Jegatheeswaran*
12:05pm - 12:15pm	**The Future: Autonomous Surgery** *Dan Fer*
12:15pm - 12:30pm	**Panel Discussion: Next Steps: Moving Surgical AI Forward**
12:30pm	**Takeaway Messages** *Co-Chairs*