IEEE vTOOLs Event Reporting

IEEE RAS Malaysia Chapter

Title of Event:	Modern trends in Medical Robotics
Event	☐ Physical / ☒ Virtual
Description:	The event started by a welcoming speech by the organizing chair Mr. Ibrahim ,during his speech he introduced to the audience the main speaker Dr.M.K.A.Ahamed khan who is currently working as Assistant Professor, in UCSI University, Malaysia about his profile and the topic of interest. Almost 40 participants were present. Since 2010, the demand for industrial robots has accelerated considerably due to the ongoing trend toward automation and the continued innovative technical improvements in industrial robots. In the last 10 years, the uptake of surgical robots, throughout the world especially in US, Europe including UK and Australia is extensive. In Asia, these machines are becoming popular with the hospitals in major cities and the usage is progressively increasing. The surgical robot has three components; console, patient cart and vision cart. The operation is performed by the surgeon through the robot. Robotic surgery has distinct advantages. It gives the surgeon a magnified 3D vision of the part requiring the operation and allows surgeons to do the procedure with great precision. Overall, robotic surgery allows the surgeon to perform a high quality operation for their patients. The introduction of minimally invasive techniques has transformed surgery in the past three decades. Patient benefits from mini-invasive surgery include less operative blood loss, less postoperative pain and consequently, reduced requirement of narcotics. RS for gastric cancer has been demonstrated to overcome intrinsic limitations of conventional laparoscopic surgery, thanks to the wristed instruments that allow multiple degrees of freedom, tremor filtering, three-dimensional vision, and a steady image, thus minimizing blood losses and surgical trauma and improving the surgeon's dexterity when fine manipulation is required. This can be especially helpful during maneuvers in restricted fields and around major vessels, such as in extended lymphadenectomy. Many of these issues could explain the shorter learning curve of robotic gastric surgery compared to laparoscopy. In this talk the Trends in the market for Robot Industry and the evolution of modern techniques using Robotics in Surgery will be shared and potential future directions will be proposed. The event ended at 1.30 pm by a closing speech by Mr.Ibrahim. The information gained by the participants during this talk will play a part during their professional career development. Mr.Ibrahim thanked all the participants and the speaker for their participation and commitment.

Keywords:	Industry, electronics				
Category:	☐ Professional	☒ Technical	☐ Non-Technical	☐ Administrative	
Sub-category:	Professional:	☐ Continuing Education	☒ Professional Development	☐ Industry Relations	☐Professional (Other)
	Nontechnical:	☐ Social	☐ Awards Dinner	☐ Pre-Univ. activities	☐Nontechnical (Other)
	Administrative:	☒ Vice chair		☐ Officer training	
Date and Time:	Date: 8 oct 2020	Start Time: 11am	End Time: 1.30pm		
Event Location:	UCSI University, MS TEAM				
Organizational Unit:	UCSI University,UCSI IEEE STUDENT BRANCHand IEEE RAS Malaysia Chapter				
Attendance:	No. of IEEE attended:	1	No. of Guests attended:	50 students	
Registration:	☒ No registration required				
	☐ Registration required				
Registration Fees:	-				
Corresponding Name:	Mohamed khan,Asst prof, ucsi university IEEE RAS Malaysia chaoter vice chair				
Corresponding Email:	mohamedkhan@ucsiuniversity.edu.my