

IEEE vTOOLS Event Reporting

IEEE RAS Malaysia Chapter



Title of Event:	Technical Talk (Webinar)			
Event	<input type="checkbox"/> Physical / <input checked="" type="checkbox"/> Virtual			
Description:	Machine Learning in Biomedical Applications for Centre of Excellence in Intelligent Engineering Systems (CEIES), KAU University, Saudi Arabia Speaker: Assoc. Prof. Ir. Dr. Irraivan Elamvazuthi			
Keywords:	Disruptive Technologies, Robotics, AI			
Category:	<input type="checkbox"/> Professional	<input checked="" type="checkbox"/> Technical	<input type="checkbox"/> Non-Technical	<input type="checkbox"/> Administrative
Sub-category:	Professional:	<input checked="" type="checkbox"/> Continuing Education	<input type="checkbox"/> Professional Development	<input type="checkbox"/> Industry Relations
	Nontechnical:	<input type="checkbox"/> Social	<input type="checkbox"/> Awards Dinner	<input type="checkbox"/> Pre-Univ. activities
	Administrative:	<input type="checkbox"/> Vice chair		<input type="checkbox"/> Officer training
Date and Time:	14 Oct 2020	Start Time: 16:00	End Time: 17:00	
Event Location:	Online			
Organizational Unit:	IEEE RAS, Malaysia			
Attendance:	No. of IEEE attended:	3	No. of Guests attended:	15
Registration:	<input checked="" type="checkbox"/> No registration required			
	<input type="checkbox"/> Registration required			
Registration Fees:	-			
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CENTER OF EXCELLENCE IN INTELLIGENT ENGINEERING SYSTEMS

SEMINAR

SPEAKER

DR. IRRAIVAN ELAMVAZUTHI
Department of Electrical and Electronics Engineering
Universiti Teknologi PETRONAS, Malaysia

DATE

Wednesday,
October 14, 2020

TIME

1:00 PM

VENUE

Online via [ZOOM](#)

Registration link:
(one-time
registration for CEIES
seminars in this
semester)



ALL ARE
CORDIALLY
INVITED

IRRAIVAN ELAMVAZUTHI obtained his Ph.D. from the Department of Automatic Control & Systems Engineering, University of Sheffield, UK, in 2002. He is currently an Associate Professor at the Department of Electrical and Electronic Engineering, Universiti Teknologi PETRONAS (UTP). Before joining UTP, he has worked at the University Kuala Lumpur, Standards and Industrial Research Institute of Malaysia (SIRIM), and UMW Industrial Power. His research interests include Control & Systems Engineering, focusing on Robotics, Bio-Medical, Energy, and Optimization. He is a member of IEEE, IEEE Robotics & Automation Society (RAS), and IEEE Control Systems Society. He is currently the Chair of the IEEE Robotics & Automation Society, Malaysia Chapter. Dr. Irraivan has published more than 211 journal and conference articles. He has more than 3500 citations, an h-index of 26, and i10-index of 77. Also, he obtained 34 awards, such as the Testa Memory Medal for Energy Conversion through Ubiquitous Technology in 2010 in Seoul, South Korea, Effective Education Delivery Award, UTP in 2011, and National Outstanding Researcher Award for Robotics & Automation in 2016 in Kuala Lumpur, Malaysia. He has also filed/obtained 32 intellectual property rights until now.

TITLE

MACHINE LEARNING IN BIOMEDICAL APPLICATIONS

ABSTRACT

In the scientific literature, 'Machine Learning' is defined as the application of Artificial Intelligence (AI) that offers systems the ability to learn automatically and improve from experience without being programmed explicitly. Machine Learning is applied to a wide range of computing tasks, and recently, with the new research dimension, the Biomedical Engineering field has seen rapid developments in the use of Machine Learning. The potential Biomedical Applications where Machine Learning could be applied are disease identification/diagnosis, epidemic outbreak prediction, clinical trial research, personalized treatment, radiotherapy, drug discovery/manufacturing, and smart electronic health records. In this talk, the evolution of Machine Learning and its use in Biomedical Applications would be presented. The benefits and challenges of Machine Learning in Biomedical Applications would be expounded.