

Workshop in
conjunction
with
TENSYP
2014

SIGNAL AND IMAGING MODALITIES FOR BIOMEDICAL APPLICATIONS

13 April, 2014 || Venue– Kuala Lumpur || Time: 2pm-5pm

The workshop will include introduction to state-of-art medical image/signal acquisition modalities followed by demonstrations on each modality. Participants will have an opportunity to understand the basics of various image/signal modalities and their applications in various fields. Participants will also get an opportunity to have hands-on experience on various imaging devices such as Functional Near infrared (fNIR), Fundus Camera, Multi-spectral Camera, Thermal Imaging camera, Ultrasound, EEG, EMG, Spectrophotometer.

Targeted Audience: Electronic engineers, Biomedical engineers, Medical engineering students, Researchers, Postgraduate Students, and Industry Researchers.

Fundus Camera



fNIR



Thermal Imaging Camera



Ultrasound



EEG



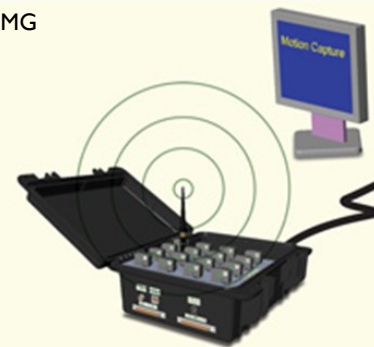
Multispectral Camera



Spectrophotometer



EMG



SPEAKERS

Professor Ir. Dr Ahmad Fadzil Mohd Hani



Professor Fadzil is an expert in the area of image processing and computer vision. He received his PhD in Image Processing from University of Essex, UK in 1991. His research activities range from fundamental pattern recognition to developing signal and image processing solutions for vision and biomedical applications. He is currently heads the Centre for Intelligent Signal & Imaging Systems Research (a UTP COE) under the mission-oriented research in Biomedical Engineering at UTP. He is a Fellow of IEM, a Professional Engineer with BEM, a Senior Member of IEEE, and a Fellow of the Academy of Sciences, Malaysia. He is also a Non-Executive Director of ViTroX Corporation, a public-listed company that develops and manufactures automated vision inspection systems.

Associate Professor Dr Aamir Saeed Malik



AP Dr Aamir is working in the field of signal and image processing since 1998. He is currently the Director of Mission Oriented Research Biomedical Technology and the editor-in-chief of RESINEX (university research publication) at Universiti Teknologi PETRONAS. He is senior member of IEEE. He received his PhD from Gwangju Institute of Science & Technology, South Korea. His research interests include visual surveillance and brain signal and image processing.

Program Schedule

14:00	Opening Remarks
14:05	Introduction to Medical Imaging/Signal modalities
14:30	Functional near Infrared (fNIR) & Electroencephalography (EEG)
15:20	Ultrasound and Electromyography (EMG)
16:00	Thermal Imaging Camera & Multispectral Camera
16:30	Fundus camera & Spectrophotometer

Registration Fees

TENSYMP Participants	RM 500
Student Non-Member	RM 500
Full IEEE Member (participating in workshop only)	RM 550
Non-Member/Non-TENSYMP participant	RM 600

The fee is per person and includes workshop materials only. A certificate of attendance will be given at the end of the course. Participants are required to bring their own Laptop.

For any further information, please contact:

Mr. Dileep Kumar (Research Scientist), Centre for Intelligent Signal and Imaging (CISIR),
dileep.utp@gmail.com or dileep.kumar@petronas.com.my Phone/Mobile : 0195591650

Participants Registration Form

Name	
Position	
Organisation	
Address	
Phone	
Email Address	

About Centre for Intelligent Signal and Imaging Research (CISIR)

Centre for Intelligent Signal and Imaging Research (CISIR) of Universiti Teknologi PETRONAS is a leading intelligent signal and imaging research centre in Malaysia and the region. Research at CISIR explores the use of signal and image processing, computer vision, 3D imaging, spatial analysis and computational intelligent techniques in providing solutions for medical and industrial applications. The Centre designs hardware platforms using embedded systems approach in implementing the real-time solutions. In achieving real-time performance, optimisation methods such as the use of multi-core CPU, co-processing and graphics processing unit (GPU) are implemented. A wide range of short courses are offered at CISIR thought the Year. For the short courses offered in 2014, follow the link below

Short Courses: http://www.utp.edu.my/CISIR/index.php?option=com_content&view=article&id=128&Itemid=176

Website: <http://www.utp.edu.my/CISIR/>

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