

Dr. Chau Kien Tsong
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Biodata

Dr. Chau Kien Tsong is Deputy Director (Postgraduate, Network & Alumni) at the Centre for Instructional Technology and Multimedia, Universiti Sains Malaysia (USM), Penang, Malaysia. Dr. Chau received his undergraduate degree from the National University of Malaysia (UKM). He has Master of Science (IT) from Prince University of Malaysia (UPM). His PhD. degree is from USM. His academic background is image processing, multimedia authoring, 2D and 3D animations, and educational technology. He has been recognised for excellence in teaching and research, earning 2 gold medals in two international innovation competitions held in 2018 in Malaysia and best paper award for research paper on motivated sensing multimedia system for preschoolers in “International Conference on Education, Teaching, and E-Learning” in 2017. Prior to his career at the USM, Dr. Chau was a research fellow in USM. Dr. Chau is currently editorial board members of three international journals, academic consultant and external examiner of private institutions of higher learning in Malaysia, META and IEEE member, and has been judge, session chair, and program committee for several conferences. Dr. Chau has over 25 publications, which include SCOPUS and ERA indexed journals.

Speech Title:

Audio, Visual, and Tactile Integration in Digital Multimedia using Sensing Technologies

Abstract:

We are entering the age of ubiquitous sensing. We start to observe smart sensors tracking our health, monitor the operation of machines, and empower autonomous cars. Ubiquitous sensing supports the collaboration of a wide range of specialty areas and disciplines - engineering, business, electronics, computation, and information technology. However, in digital multimedia landscape, deployment of sensors into digital multimedia system is still scarce. Such circumstance may be ascribed to the immense challenges in terms of technicality in implementation. In view of lack of such multimedia, we therefore conduct numerous research works that unite small inexpensive sensors and digital multimedia objects. Dr Chau begins discussion by looking into the implementing sensing technologies explored during the development phase of the research. Discussion followed by elaboration of how sensing system can be bound to digital multimedia elements. Dr Chau’s research and exploration demonstrated that sensing technologies in digital multimedia landscape is not only achievable, but also cost-effective. Dr Chau’s speech will feature a broad discussion on sensing technology and digital multimedia such as insight into technical challenges, commercial and humanitarian needs, societal impact of sensing systems in digital multimedia, and potential research in the future.