

## **Keynote Speech:**

# **Multi Modal Sensory Human Communication in the Internet Society**

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### **Abstract:**

This talk outlines new facilities within human media spaces supporting embodied interaction between humans, animals, and computation both socially and physically, with the aim of novel interactive communication and entertainment. We aim to develop new types of human communications and entertainment environments using all the senses, including touch, taste, and smell, which can increase support for multi-person multi-modal interaction and remote presence. In this talk, we present an alternative ubiquitous computing environment based on an integrated design of real and virtual worlds. We discuss some different research prototype systems for interactive communication, culture, and play.

### **Biography:**

Adrian David Cheok is a Full Professor at Keio University, Graduate School of Media Design. He has been working on research covering mixed reality, human-computer interfaces, wearable computers and ubiquitous computing, fuzzy systems, embedded systems, power electronics. He has successfully obtained approximately \$20 million dollars in funding for externally funded projects in the area of wearable computers and mixed reality from Media Development Authority, Nike, National Oilwell Varco, Defense Science Technology Agency, Ministry of Defense, Ministry of Communications and Arts, National Arts Council, Singapore Science Center, and Hougang Primary School. The research output has included numerous high quality academic journal papers, keynote speeches, international exhibitions, numerous government demonstrations including to government President and Prime Ministers, broadcast television worldwide broadcasts on his research (such as CNN/ CNBC/ ABC/ Discovery/ National Geographic etc.), and hundreds of international press media articles. He has been awarded numerous awards including Young Scientist of the Year, Young Professional of the Year Award, Fellow in Education, World Technology Network, Microsoft Research Award for Gaming and Graphics, First Prize Nokia Mindtrek Award, First Prize in the Milan International Invention competition, Japan's Gijyujusho award, awarded for the best research of the year, SIP Distinguished Fellow and Young Global Leader by the World Economic Forum.