



Laboratory for  
Knowledge Management & E-Learning



## The 8th Workshop of Knowledge Management & E-Learning (Seminar Series)

Chair: Dr. Maggie M. Wang

### 1. Writing literature review papers on educational research: Qualitative and quantitative approaches

**Professor Chin-Chung Tsai**

Graduate Institute of Digital Learning and Education  
National Taiwan University of Science and Technology

May 20, 2016 (Friday) 10:45 – 12:00, Room 205, Runme Shaw Building, HKU

**Abstract:** The purpose of this seminar is to share the experiences of writing literature review papers for international journals in the field of educational research. Two major approaches, that is, qualitative and quantitative, will be discussed. The usage of content analysis, social networking analysis, and other methods will be discussed. Examples written by the speaker will be presented. Challenges, tips, and advice will be shared and discussed.

**About the speaker:** Professor Chin-Chung Tsai is currently a Chair Professor at the Graduate Institute of Digital Learning and Education, National Taiwan University of Science and Technology. He holds a B.Sc. in physics from National Taiwan Normal University. He received a Master of Education degree from Harvard University and completed his doctoral study at Teachers College, Columbia University in 1996. He has been the Co-Editor of Computers & Education since 2009. He published in Learning and Instruction, Science Education, Journal of Research in Science Teaching, International Journal of Science Education, Instructional Science, Teaching & Teacher Education, Computers & Education, British Journal of Educational Technology, Educational Technology & Society, Interactive Learning Environments, Journal of Engineering Education and other educational journals.

### 2. Misconceptions of statistics and data analysis in the research of e-learning and educational technology

**Professor Chi-Cheng Chang**

Department of Technology Application and Human Resource Development  
National Taiwan Normal University

May 24, 2016 (Tuesday) 12:45 – 14:00, Room 202, Runme Shaw Building, HKU

**Abstract:** Appropriate application of statistical and data analysis methods is a critical issue for quantitative research. It is found that researchers in e-learning and educational technology fields frequently encounter misconceptions and inappropriate use of statistical and data analysis methods. This talk will discuss a number of common problems in data analysis experienced by researchers in e-learning and educational technology fields.

**About the speaker:** Professor Chi-Cheng Chang is a Chair Professor in the Department of Technology Application and Human Resource Development at National Taiwan Normal University. He received his PhD in Workforce Education and Development from the Pennsylvania State University. Prof. Chang gained the National Outstanding Research Award from Taiwan Ministry of Science and Technology in 2014. His current research interests focus on e-learning, e-assessment, learning technology, and STEM education. He is the author of over 200 referred journal papers, book chapters, and articles in conference proceedings.

### 3. Learning Resource Organization in Ubiquitous Learning Environment

**Professor Shengquan Yu**

Deputy Dean of the Faculty of Education  
Beijing Normal University

May 25, 2016 (Friday) 10:45 – 12:00, Room 202, Runme Shaw Building, HKU

**Abstract:** With the development of pervasive computing and Internet technologies, information space is being seamlessly blended with physical space to form a ubiquitous learning environment. Current learning technologies concern learning resource sharing in a closed structure, ignoring the sustainable development and evolutionary capability of learning resources, the dynamic and generative connections among learning resources and between learners and teachers. Realizing that problem, we carry out research on an organization model of learning resources and explore the organizational framework theory and practical foundations of learning resources in ubiquitous learning. Beyond learning objects, our research proposed a new learning resource framework called Learning Cell with a view to supporting informal learning, community construction, and sharing and evolution of learning resources.

**About the speaker:** Dr. Shengquan Yu is a Professor of Educational Technology, and Deputy Dean of the Faculty of Education at Beijing Normal University, China. He is the Director of Beijing Advanced Innovation Center for Future Education. He is also the Director of the Joint Laboratory for Mobile Learning, Ministry of Education - China Mobile Communications Corporation. He was funded by the National Program for New Century Excellent Talents in 2008. He is also an expert committee member of Distance Education Journal, Information Technology in Elementary and Secondary Education, and Information Technology in Education. His main research interests are integration of Information and Communications Technology and teaching, ubiquitous learning, blended learning, and development of learning management systems.

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KM&EL Lab (<http://kmel-lab.org/website>)

All are welcome!