Awardee (Dept): Dr. Chen Chi Wai, Assistant Professor (CCA)
Publication Title: Mobile Learning: Using Application Auralbook to Learn Aural Skills

A. Briefly introduce your research publication/study for which you have received the prize.

In May, 2015, an article entitled ‘Mobile learning: Using application Auralbook to learn aural skills’ was published by the world leading journal ‘International Journal of Music Education’ (IJME). This journal was ranked as A journal on the HKIEd journal ranking list and ranked 8th on the SJR index under Arts and Humanities - music category in 2013.

This study is to investigate the effectiveness of using mobile devices such as iPhone/iPad/android phone/tablet to facilitate mobile learning in aural skills. The application Auralbook was designed in 2011 by an engineer/musician to use mobile devices to learn aural skills. This application enables students to sing, record, clap and answer questions generated by the computer based on the Associated Board of Royal Schools of Music (ABRSM) syllabus for more than 100,000 users worldwide. This study is to a) examine the effectiveness of using application Auralbook to learn aural skills, b) observe the progress of learning during the aural musicianship development, and c) propose a theoretical framework in using mobile devices to learn aural skills. The performance scores in each area, such as clapping, singing, feature (stylistic recognition), are analyzed. Research findings indicate that the functions clapping and singing score better than the other function – feature (stylistic recognition). The frequent users show significant progress in clapping and feature (stylistic recognition) at the beginner level, and singing at the intermediate level in this study.

B. How you used/will use your prize and perhaps its usefulness to your research development?

The prize has supported my further research in this area such as purchasing the latest technology - laptop, music software, hardware to set up my own ‘mobile music workstation’. Besides, a part-time research assistant is hired to support the research on mobile learning in music education.
C. Expected research outcomes/outputs/impacts arising from this prize.

This prize has supported my latest research project in Artificial Intelligence (AI) and Music Education. A mobile application *Scalebook* was designed to use artificial intelligence (AI) in practicing scales and appregios for instrumental players on the mobile tablet. This project is in collaboration with a local engineer/musician at the Science Park. String teachers and their students from the European String Teachers’ Associations (ESTA) are invited to participate in this research project. Possible research outcome such as journal article on international referred journal will be published after the data collection and analysis.