

# 專 題 演 講

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題 目： Model-based Automated Testing of Android Applications

大 綱：

Recently, the testing of Android apps has received significant attention due to the widespread use of Android smartphone devices and apps. Numerous approaches and tools have been proposed to automatically detect runtime crashes in Android apps, thereby enhancing their quality. In this presentation, I will describe a model-based approach for automatically testing Android apps. I will outline the method used to automatically test an Android app under test (AUT) while simultaneously generating the test model. Furthermore, I will explain how to utilize the test model to detect anomalies in the AUT. Finally, I will provide and discuss some experimental results to demonstrate the effectiveness of this approach.

簡 歷：

Dr. Liu received the Ph.D. degree in computer science and engineering from University of Texas at Arlington in 2002. Dr. Liu joined Taipei Tech in 2003.

Dr. Liu has served as the technical program committee member for a few international conferences in the field of software engineering. He has been a member of IEEE since 2000 and has served as a council member of Software Engineering Association of Taiwan (SEAT) since 2017. His several open source research projects were awarded as the distinguished projects from Ministry of Science and Technology (MOST), Taiwan in 2011-2013. Dr. Liu' s research works on software engineering has received more than ten best paper awards in both domestic and international conferences, including TCSE, NCS, TANET, ICS, ICASI, and ISNE.