Metamorphic Testing for Creativity and Effectiveness in Software Testing

**ABSTRACT**

Although often recognised as an essential aspect of software quality assurance, software testing has often been viewed as a second class citizen of software engineering processes, left to the end of many projects, and frequently omitted altogether. What’s worse is the reported perception of testing as a menial, low-level job, lacking any need for creativity or ingenuity. Both in industry and academia, testing is often considered as being of much lower status and attractiveness than others processes, especially design and implementation. Software testing instructors often face very unmotivated students, professing little or no interest in becoming testers. This presentation will address some testing misconceptions, and, through Metamorphic Testing -- a new approach to testing which alleviates some of the major challenges in the field (including the Oracle Problem) -- will provide a fresh and exciting new perspective on software testing.

**BIOGRAPHY**

Dave Towey received his BA and MA degrees from The University of Dublin, Trinity College; PGCertTESOL from The Open University of Hong Kong; MEd from The University of Bristol; and PhD from The University of Hong Kong. He was the first foreign academic recipient of the Zhuhai municipal outstanding teacher award, in 2007, and he is currently an Assistant Professor at The University of Nottingham Ningbo China (UNNC). Prior to moving to UNNC, he was with the Beijing Normal University-Hong Kong Baptist University: United International College (UIC) from 2006 to 2013. His research interests include technology-enhanced teaching and learning, and software testing, especially metamorphic testing.

All are welcome!

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