FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING

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LIGHT READING

Firefly Combinatorial Test List Generator for IoT Systems

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A common problem in IoT systems is the large number of the combinations of hardware, operational, and software configurations that required to be tested to ensure the IoT systems are free of bugs. Although desirable, unfortunately, the exhaustive testing cannot be possible due to resource and timing constraints. Due to the limitations of time and cost, there is a need for testing efforts minimization but with sufficient testing efforts.

Firefly Combinatorial Test List Strategy (FCS) is an Intelligent Automatic Test Cases Generator strategy which founded in 2017 to help testers to reduce the number of test cases systematically by choosing a subset of the test cases based on the combination of input variables and supports different features such as (uniform interaction strength, variable interaction strength, input output relation interaction, and seeding). The interface of the generator consist of three tabs functions which are the System Configuration, I/O & Seedings Configuration and Generate Test Cases tabs.

***Will be presenting UMP in Seoul International Invention Fair (SIIF) 2018 this December*

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