**Teaching Proposal**

– A Series of Talks on Focused Topics

by

Dr Jun Liu

(July 2014, SWJTU)

**Theme 1: Reliable Software Development – Formal Approaches**

* Introduction to Formal Requirement Specification
* Specification Techniques Overview
* Formal Approaches Overview
* Z Specification Language: Case Study
* Formal Verification Framework
* Model Checking – SPIN Tool Based on Promela

**Theme 2: Advanced Operational Research**

* Traditional Optimization Approaches Overview
* Heuristic Optimisation Methods Summary
* Statistical Models in Operational Research