



# 18th International Zurich Symposium on Electromagnetic Compatibility

## **TUT-3 on Monday September 24**

### **Validating Numerical Models for EMC/SI Applications**

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Techniques for quantitative comparison of data, particularly for the validation of numerical electromagnetics, are becoming a topic of increasing interest and importance. Typical examples are the comparison of simulation results against experiments to ask if the model is 'good enough', the comparison of simulation results from one technique against the results of another technique in order to decide if the two perform equally well or the comparison of one implementation of a model against another implementation in order to ask the question 'which is better?'. There are some emerging options to objectively quantify these comparisons. These options include visual rating and heuristic techniques (such as Feature Selective Validation (FSV)). These emerging options complement more traditional statistical methods.

The purpose of this tutorial is to provide a technical examination of the emerging techniques, putting them firmly in the context of current established methods (such as the statistical techniques) and examining how they can be applied to practical problems.

The tutorial will also be referenced to the current IEEE standards activity in this area.

Further, this tutorial would provide a technical introduction to the 'Innovation' session being organised by Professor Orlandi.

### **Schedule**

9:20 - 10:20 part 1  
10:20 - 10:40 coffee break  
10:40 - 11:40 part 2