

12th Session of Lecture Series on
Formal and Logical Aspects of Computer Science

Applying IOCO Testing to Electronic Funds Transfer Systems

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Time : Thursday, January 21, 2010 (Bahman 1, 1388) 14:30 to 16:00

Place : School of Mathematics, IPM, Niavaran Square, Tehran, Iran

Abstract: Model-based testing is a way to generate test cases for behaviorally complex systems systematically from a formal specification. In this talk, we present IOCO (Input-Output conformance) theory, which is a model-based testing method based on I/O transition systems. We also review the relevant notions regarding observational equivalence of systems. Finally, we report our experience on applying IOCO testing to an industrial financial application.

(Note : Topics covered by this lecture series are computational logic, type theory, topology in theoretical computer science, proof carrying code, formal specification and verification of systems, computability, proof theory, model checking, and so on.)