Model Based Conformance Testing

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This special session is devoted to Model Based Conformance Testing (MBCT). MBCT consists in using formal models (or languages) for describing the expected behaviour of the system under test. The specification model is used for the test generation strategy and/or in order to help automation of the verdict.

Such techniques are getting increasingly used and popular in software development, especially in the domains of critical systems or network communication systems. Indeed, using MBCT permits to detect more bugs in the system, and thus to increase the confidence, and generally to decrease the global cost of the test. However, using MBCT for testing complex systems is still a challenge and an evolving field of researches.

The objective of this special session is to bring together researchers and users of MBCT to present and discuss the recent evolutions in this domain or related areas.

The topics of interest include but are not limited to:
- Online and offline model based test generation techniques
- Model based testing for industrial processes
- Runtime verification and model-based testing
- Model based testing in concurrent or distributed systems
- Web services and clouds testing
- Testing real-time systems
- Model Based Testing tools

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