

Conclusions: CONTESSA Review, Dec. 2003

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Concluding Remarks

The presentations today have focused on some specific areas of technical progress in the CONTESSA project. Overall, our goal is to develop new models for **context-aware adaptive interoperation**, which is essential for the new frontier of systems involving:

- mobile devices and sensors
- wireless and ad-hoc network communication
- randomness as an essential characteristic
- security, reliability, and different QoS guarantees

Concluding Remarks (II)

As the talks have illustrated, our technical approach is based on the intimate “interoperation” (at the “metalevel”) of:

- new formal models and formal analysis for early in the design process
- context-adaptive:
 - mobile agents
 - middleware
 - network protocols
- security, fault-tolerance, and QoS models

Concluding Remarks (III)

The talk today are just a snapshot of some fragments of our work. Perhaps what is most important about CONTESSA is the unique “metalevel interoperation” of formal models, next-generation adaptive interoperation system designs, and high assurance.

What we are indeed doing is to develop a new **multidisciplinary research approach** which we think is essential to properly address the technical challenges raised by these next-generation systems.

This is happening through common research projects, graduate student visits, external collaborations, and mutual learning about our different technical strengths. Much more remains to be done, but the future looks promising.