Automatic Composition of e-Services

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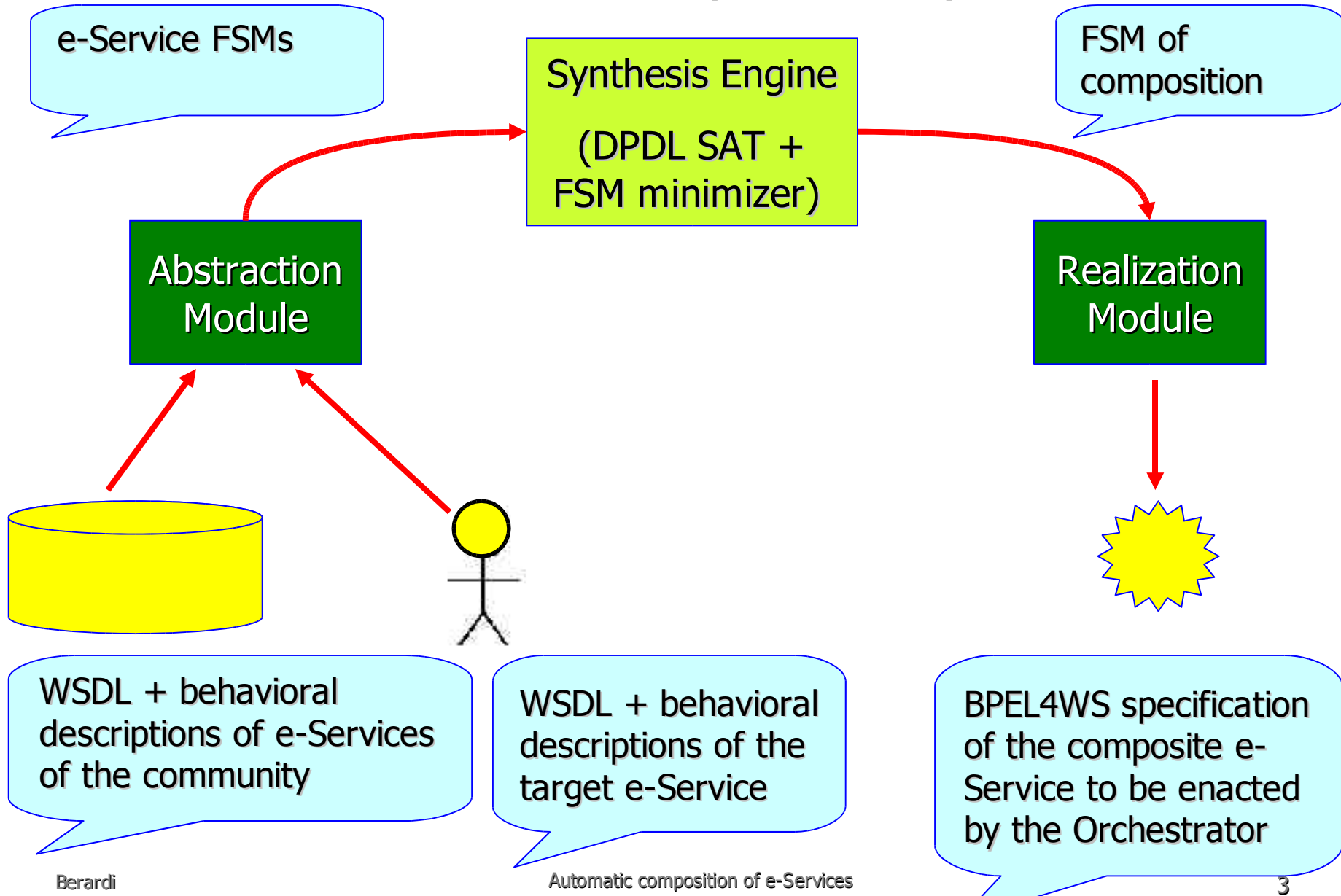berardi@dis.uniroma1.it
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Focus and Goals of my Ph.D. Thesis

- General framework for conceptual modeling of e-Services and for formal definition of e-Service composition

- Algorithms for automatic e-Service composition

- Computational complexity of algorithms for automatic e-Service composition

  D. Berardi, D. Calvanese, G. De Giacomo, M. Lenzerini, and M. Mecella. Automatic Composition of e-Services that Export their Behavior. In Proc. of the 1st Int. Conf. on Service Oriented Computing (IC-SOC03), Trento, Italy, 2003.

The e-Service Composition System

e-Service FSMs

Synthesis Engine

(DPDL SAT + FSM minimizer)

FSM of composition

Abstraction Module

Realization Module

WSDL + behavioral descriptions of e-Services of the community

WSDL + behavioral descriptions of the target e-Service

BPEL4WS specification of the composite e-Service to be enacted by the Orchestrator

Info & Contacts

- Thesis dissertation scheduled for January, 2005

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