Mediation Services in Computing Environments (MeSC)
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Scope
The heterogeneity of the vast resources of the Internet, their transparent access, integration and interoperation pose a significant challenge that mediation services are increasingly called upon to address. In foundational systems mediation takes many forms and ranges from assistance in the search and discovery of resources to arbitration and negotiation by autonomous agents. Mediation presides also over the deployment of cooperative and collaborative schemes, by marshalling resources and scheduling processes. In service provision a manager mediates adaptively the configuration and allocation of resources in a variety of environments including Grids and Cloud.

Among the applications that fall within the scope of mediation, architectural frameworks in e-commerce, e-government and e-learning have been successfully introduced to create synergy between humans and systems. The fundamental basis for any mediation is that autonomous entities and systems need to overcome their environmental heterogeneity and resolve syntactic and semantic differences. The main function of mediation services is to facilitate processes such as data and system integration, coordination of behaviour, resource sharing and participation in complex activities. They play a crucial role in ubiquitous and pervasive environments.

In managing differences and resolving conflicting requirements a range of methods and techniques were introduced to support interoperation and facilitate semantic interoperability. Data transformation, resource management, configuration, adaptation and negotiation define a wide spectrum of mediation, from reactive behaviour to proactive intervention.

Topics
The track seeks original contributions on mediation and mediation services related but not limited to the following topics:

- Mediation in resource management and brokering
- Arbitration and negotiation in mediation
- Data mediation and process mediation
- Personalisation and recommendation systems
- Implicit and explicit profile generation in mediation
- Ontology mapping in mediation
- Mediation in hypermedia systems
- Context-awareness in mediation
- Self-configuration and adaptivity in mediation
- Autonomous and emergent behaviour in mediation
- Aggregation of mediation services
- Trusted mediation
- Mediation patterns
- Formal aspects of mediation
- Models and model transformation in mediation
- Aspect-Oriented mediation
- Domain specific languages (DSL) in mediation
- Mediation in collaborative and cooperative systems
- Mediation in ubiquitous and pervasive environments.
- Mediation in social and P2P community systems
- Mediation services in mobile contexts
- Architectural frameworks for mediation
- Mediation in e-commerce, e-government and e-learning
- Case studies and experiences of mediation services

Important Dates
- Submission deadline: August 31, 2010
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