



**RESEARCH ARTICLE**

# **Policy Based Web Service Interaction Management**

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*Abstract—Service interaction manifest itself as an unexpected behaviour of multiple services used together either simultaneously or in sequence. The paper describes a policy based approach to web service interaction management. Parlay X web services for call control, mobility, user interaction and policy management are studied. Web service behaviour is described as a set of policy rules. Rules are generated using descriptive logic. Web service interaction is considered as a satisfiability problem. The policy evaluation uses a standard inference algorithm to detect web service interactions.*

*Keywords— Parlay X; Policy management; Service interaction; Descriptive logic; Inference algorithm*

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