

1st Workshop on Software Services: Frameworks and Platforms  
Timisoara, September 23-25, 2010



**IRMOS CLOUD SOLUTION: SERVICE  
ENGINEERING, SERVICE MANAGEMENT,  
ISONIQUALITY IMPACT PREDICTION FOR  
EVOLVING SERVICE-ORIENTED SOFTWARE  
(Q-IMPRESS)**

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**ABSTRACT.** The advancements in distributed computing have driven the emergence of service-based infrastructures that allow for on-demand provision of ICT assets. The IRMOS project has set out to design, develop and validate a set of Cloud Solutions which will allow the adoption of interactive real-time applications (and especially multimedia applications) on cloud-based platforms, enabling their rich set of attributes (from time-constrained operation to dynamic service control and adaptation) and their efficient integration into cloud infrastructures. To achieve this goal IRMOS outcomes enable real-time attributes at various levels of the infrastructure (network, storage, processing, application), achieve automated SLA Negotiation, map between high-level application terms and fine grained resource-level attributes and provide supporting tools to develop applications with predictable performance. The outcomes are provided under three main bundles, namely Service Engineering, Service Management and ISONI (Intelligent Service Oriented Network Infrastructure).