ICT08-018 - FoSII - Foundations of Self-Governing ICT Infrastructures

Abstract

While it is possible today to offer the packaging of software into services no practical approaches are so far available for packaging computing power as a service. Yet this could be a low-cost and massively scalable solution for problems which presently require the purchase of expensive computers. The project investigates the problems arising from the lack of dynamism and adaptivity in so-called service-oriented architectures (SOA). Emulating the principles of autonomic systems (such as operate in biological systems), it develops novel methods for communications between ICT systems and for their self-management. Applications include the easier combination of IT systems operated by two or more companies in the case of a merger.

Keywords:
Web Services, Grid Computing, Autonomic Computing, Service Engineering,Service Monitoring

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Further links to the persons involved and to the project can be found under
https://www.wwtf.at/funding/programmes/ict/ICT08-018/