



# *"Autonomics" - A Common Cause or a Flag of Convenience*

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**Spyros Denazis**

Hitachi Sophia Antipolis Laboratory,  
Hitachi Europe Ltd

# Dissecting Autonomicity

- Autonomic is by definition self-centric
- It revolves around an intelligent control loop
  - Collect - Decide - Enforce
- Collect = Monitoring
  - Building a picture about the network, i.e. self-aware
- Decide = Inference & Plan
  - Inference is the process whereby a problem is diagnosed
  - Plan is the process whereby a solution is selected
- Enforce = Deployment & Configuration
  - Functionality is added
  - Behaviours are changed
- Evolution in the making
  - A distributed, adaptive, global system that is continuously changing

# What are the binding elements behind all this?

- Autonomics is an abstract vision but is meaningless unless it is transformed into tangible universal scenarios that concretises the vision
  - Reduces confusion and avoids rediscovery-of-the-wheel syndrome
- The autonomic loop is lifeless without the existence of semantic “languages” exchanged between the different entities of the loop operating at different layers and different contexts
  - Such semantic languages will collectively describe behaviours and create a sense of purpose
- Components, everywhere and of every type to enable network evolution
  - Components act as building blocks to compose more complex structures
  - Services and Network functionality are described as components
  - They need a “language” to bring them to life