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Managing On-Demand Business Applications with Hierarchical Service Level Agreements -- Controlling Access to RDF Graphs -- An Authoring Tool for User Generated Mobile Services -- A Provenance-Based Compliance Framework -- Network Virtualization - Opportunities and Challenges for Operators -- Cloud Computing and the Impact on Enterprise IT.

Sommario/riassunto

The current Internet has undergone an essential transformation: it has changed from a network of networks that enables access to remote machines by a cons- tentprotocolsuite(TCP/IP),toanetworkofcontent, applications,andservices. Thus, it has become a modern commodity for everyone. The Future Internet(FI) is destinedtocontinue this developmentandto p- videimprovedfeaturesandusabilityforindividualsandbusiness. Itsapplications are expected to originate from areas such as entertainment, health, energy grid, utilities and the environment, transport, mobility, and logistics. Tight economic constraints, however, require the Future Internet to consolidate and converge application-speci'c networks and support for the Internet of Services (IoS), the Internet of Things (IoT), and the Internet of Content (IoC) in a homogenous and, if possible, a single system. A simple investigation of network performance requirements of the ant- ipated FI applications reveals a set of contrary needs that have challenged research on network architectures and protocols for decades. Only a few - plications have been successful, e.g., P2P systems, which can adapt easily to heterogeneousenvironments.Similarly, semantic technologyhas providedme- ingful relationships of content, but has failed when it has come to manageability and performance in universal and heterogeneous network systems.