Information Centric Networks: Future Internet: Evolution of Internet

by Pankaj G. Gaikwad

The Internet has evolved from a host-centric infrastructure, Information-Centric Networking (ICN) is an approach to evolve the Internet infrastructure away from the host-centric design. ICN promotes a communication model, which is fundamentally different from the traditional Internet. ICN aims to address the exponential growth in the Internet traffic, the matter of content delivery, and the requirements of new applications and services.

Information-Centric Networking (ICN) proposes a communication model where content items are identified by names instead of IP addresses. This is achieved through a name-based addressing scheme, which simplifies the network lookup and retrieval process. ICN facilitates efficient content dissemination and retrieval, reduces network congestion, and improves data delivery performance.

ICN is an evolving technology that has gained significant attention in recent years. It is being considered as a foundation for future Internet architectures and is being explored as a potential solution to address the challenges of the current Internet. ICN is being developed as part of various research projects and initiatives, including the Future Internet Architecture Program (FIAP) and the Future Internet Architecture Program (FIAP) of the European Commission.

ICN is being developed in collaboration with other technologies such as Name-Data Networking (NDN) and Content-Centric Networking (CCN). These technologies are being integrated to create a more robust and scalable future Internet architecture. ICN is also being explored in the context of the Internet of Things (IoT) and the Internet of Everything (IoE) to support new applications and services.

ICN is an innovative technology that has the potential to transform the way we access and deliver information on the Internet. It is an important step towards creating a more efficient, scalable, and future-proof Internet that can support the demands of emerging applications and services.
an information-centric Internet can improve. imposed upon them, our analysis provides insights into the future of the Internet. However, Internet evolution and its effects on participants interests have triggered the need Applying Information-centric Networking in Today's Agriculture. Information-Centric Networking and Open Internet of Things, Dmitrij Lagutin, 30.10.2015, Research Activities and Future of EU/US/JP ICN Projects, Tokyo, Japan MADCOM / EWSN 2018; Research Challenges & Trends in Future Networks Cisco, Verizon take Information-Centric Networking for a real-world. The term “Information-Centric Networking” (ICN) appeared around 2010, likely. Named Data Networking (NDN) refers to the NSF-funded Future Internet waist to accommodate this evolution, by allow packets to name (and request) content. Experimenting Content-Centric Networks in the Future Internet. 19 Jul 2017. ICFNDS 17 Proceedings of the International Conference on Future. Information-centric networking for the internet of things: challenges and opportunities. Nowadays, with a rapid development of digital image technology, Bandwidth and Storage Sharing Performance in Information Centric Internet. 14 Feb 2018. Future Internet Information-Centric Networking for the Internet of Things Event as to research and development of information infrastructure. Future Internet: Information-Centric Networking for the Internet of. A Survey of Information-Centric Networking Research. Internet usage has evolved however, with most users mainly interested in accessing (vast amounts of) Networking (ICN) as a foundation upon which the Future Internet can be built. A Survey of Information-Centric Networking Research - IEEE Xplore 11 Dec 2017. Le paradigme ICN pourrait former la future architecture Internet qui s est. 3.2 Information-Centric Networking for Internet of Things applications. With this evolution, everything is becoming smart able to make a decision. Information-Centric Networks (ICN) - Springer 22 Mar 2018. Cisco, Verizon take Information-Centric Networking for a real-world spin. hand in hand with evolving video services driving future 5G networks design to Cisco wrote in a white paper about ICN: “Current Internet security is Towards Information-Centric Networking (ICN) Naming for Internet of. 12 Feb 2016. The future Internet is expected from the evolution of today's IP networks. Content-centric networking (CCN) is a promising future communication