

Special Issue on IP and Broadcasting Systems Convergence

Call for Papers

In order to achieve access and core network interworking and service ubiquity within the vision of the Internet of the Future, IP arises as a key element for the realization of a unified/fusion environment which enables the convergence/synergy between traditional and emerging technologies. In this context, IP can be also seen as the “gluing factor” in the rapidly progressing convergence between the technologically different sectors of *networking and broadcasting*.

This convergence, witnessed both at technological and service levels, is mainly empowered by the evolution of broadcasting standards (DVB, ISDB, ATSC, CMMB) and the recent advances in IP networking.

In this way, a broadcasting platform is no longer restricted to transmitting ‘bouquets’ of TV programs. The ability to include IP services into the broadcast multiplex, along with the large coverage area and the high bit rate capabilities, allows broadcasting systems to constitute flexible broadband IP networking infrastructures, complementing existing and emerging wireless access networks such as 3G, WiMAX, and LTE. Conversely, the provision of broadcast TV services over IP networks and over the Internet is further fading the borders between the IP/networking and broadcast worlds.

The aim of this special issue is to attract state-of-the-art contributions focusing on the convergence between the IP and broadcasting systems, that is, the provision of IP services over broadcasting platforms and vice versa; the streaming of A/V broadcasting services over IP networks. Areas of interest include, but are not limited to:

- Broadband IP access over DVB, ISDB, CMMB, ATSC, DMB, MediaFLO
- Satellite-based access networks
- IPv4/IPv6 encapsulation and transport
- Broadcast TV and radio over IP
- Security and quality of service
- Architectural and design aspects
- Interaction channel technologies
- Cross-layer optimization
- IP datacast issues and ESG
- IPTV over broadcasting systems
- Social television and novel services

- Business aspects and standardization activities
- Regulatory issues
- Digital dividend and exploitation for broadband IP access

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