

Call For Papers

Special Issue on IMS as Service Delivery Platform for Converged Networks: Architecture, Protocols, and Applications

IEEE Vehicular Technology Magazine

The IP Multimedia Subsystem (IMS) is globally considered as the common platform for providing a unified session control on top of various access network technologies for realizing flexible multimedia applications. IMS is also driving the notion of Next Generation Networks and Fixed Mobile Convergence by merging the fixed and mobile telecommunication networks with the Internet and the adoption of IP technologies within the telecom domain. From a technology perspective the IMS represents conceptually a combination of fixed and mobile networks from the telecom domain with emerging VoIP and Internet applications in order to implement a seamless multimedia service environment. The international standardization of IMS was initiated by the Third Generation Partnership Project (3GPP) in 2000 and has resulted in first commercial implementations and first trial deployments around the world providing first experiences. The introduction of IMS is challenged today by the questions around business cases, IMS killer applications, migration strategies and interworking issues with existing and upcoming network and service platforms in converging networks.

Topics

In this special issue we would like to provide a snapshot of the state-of-the-art in IMS platform and applications development and deployment around the world. In addition, we want to identify upcoming research areas around IMS and investigate potential solutions in these areas. We solicit papers covering a variety of topics that include, but are not limited to:

- IMS applications: IMS vs. Internet services, new IMS enabled multimedia applications, application servers, feature interactions, service orchestration, 3rd party interfaces, service creation toolkit, experiences with IMS combinational services
- IMS and multimedia telephony, IMS and network convergence
- IMS in mobile networks: PoC/PTT to IMS evolution, voice call continuity between IMS and legacy mobile networks
- IMS and triple play, IMS/IPTV/iTV integration, IMS for broadcasting
- IMS and access network integration and QoS issues for 3G, WLAN, WIMAX, WiBro, etc.
- IMS core issues: security, performance/scalability, benchmarking, interoperability
- Global IMS standards updates: IETF, 3GPP, ETSI TISPAN, OMA, etc.
- IMS client standardization and implementation, IMS SIM card issues
- Introduction strategies around the world for network operators

Papers should be of tutorial nature and contain state-of-the-art research and development materials. Authors must follow the IEEE Vehicular Technology Magazine guidelines regarding the manuscript format. For further information, please refer to IEEE Vehicular Technology Magazine website at <http://www.ieeevtc.org/vtmagazine/>. All papers should be submitted with email attachment (in PDF format) to one the editors listed below.

Important Dates:

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|----------------------------|--------------------|
| Manuscript submission due: | July 1, 2006 |
| Acceptance notification; | September 30, 2006 |
| Final manuscript due: | November 1, 2006 |
| Publication: | February, 2007 |

Associate Editor
Vijay K. Varma
Telcordia
USA
vvarma@telcordia.com

Guest Editor
Thomas Magedanz
TU Berlin / FhG FOKUS
Germany
Magedanz@fokus.fhg.de

Guest Editor
K.C. Chua
ECE / National University of
Singapore
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