

Workshop on Adaptive Multimedia and IPTV Streaming over P2P Networks (AMIS-NET 2008)

The advances in Internet, access technologies, availability of high bandwidth, new promising video encoding standards, and wide adoption of handy and portable media capturing devices have opened new opportunities to deliver high quality, on-demand, and interactive multimedia applications. In recent years, peer-to-peer (P2P) architecture has aroused much attention both in research communities and in industries. It has played a vital role in wide spreading growth of multimedia applications including Multimedia Streaming, Video on Demand and P2P based IPTV services. P2P networking is promising for its several favourable characteristics, such as self-organization, selfconfiguration, self-healing, easy maintenance, high scalability and reliable services.

On the other hand, new media compression standards such as MPEG-4, H.264 AVC and SVC (Scalable Video Coding) have revolutionized the digital media industry by proposition high quality, bandwidth-effective, and scalable delivery of digital content to heterogeneous networks and terminals. These standards will be widely used for Video-on-demand, digital video via cable/satellite/DSL, video streaming for Internet and wireless, and IPTV. It is expected that IPTV, as a new emerging application, will have a great potential to generate new revenue to service providers.

Till now, a number of architectures have been proposed for multimedia streaming and IPTV services, but still there is need for new optimized models, metrics, and methodologies to enhance the Quality of Service (QoS) for multimedia streaming and P2P-based IPTV services as a complete architecture. The effective contents delivery across the networks requires to intelligently adapting the digital contents in accordance to user preferences under the networks and terminals constraints with the efficient utilization of resources.

The goal of this workshop is to provide a forum for sharing knowledge and expertise towards recent advances and technical challenges in multimedia streaming and IPTV services over P2P networks and possible approaches for future envisioning of the services. We solicit original contributions of high quality papers that describe the recent advances in streaming architectures, multimedia adaptation, and multimedia transmission approaches that support multimedia streaming and P2P based IPTV services. Topics of interest include but are not limited to:

- Multimedia Streaming over P2P networks
- Architectures for P2P-based IPTV Service delivery
- QoS mechanism for multimedia streaming and IPTV services
- IPTV service and Home Networking
- Media Streaming for IPTV
- Deployment of IPTV services, case study, and new trends in IPTV
- QoS measurements for Multimedia Streaming and IPTV
- P2P performance evaluation and analysis
- P2P organisation and overlay management
- Scalable and network-aware video coding techniques
- Business models for media streaming and IPTV
- Cross-layer adaptation and optimisation for multimedia services

Submission Information:

Prospective authors are invited to submit full paper in PDF format by email to cskianis@aegean.gr. Please refer to the following link <http://www.temu.gr/2008/author.html> for instructions on the length and the paper format. Papers will be reviewed with the standard reviewing procedure (each paper being sent to at least 3 independent anonymous reviewers). Accepted papers will be published within AMIS-NET 2008 proceedings and will be considered for publication in forthcoming book volume on the topic.

Important Dates

Full papers due: 1 May 2008

Notification: 1 June 2008

Camera Ready due: 15 June 2008

General Chairs

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Charalabos SKIANIS, University of the Aegean, Greece