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Guest-editorial

# Multimedia Networking

For this issue on 'Multimedia Networking', we received over twenty-five papers, of which eight were selected in the first round of review. The revised papers went through a second of review, after which seven were selected for publication. The papers selected for this issue identify new directions and challenges and provide a broad view spanning large number of issues that are of interest to the multimedia networking community.

The paper by Mukherjee, Reininger and Sengupta proposes VBR$^+$ service class that provides all the functionalities of the ATM VBR service class, with the added capability of dynamic resource renegotiation. The paper by Schelén and Pink presents an advanced reservation scheme for network resources. Nahrstedt, Chu and Narayan propose QoS-aware resource management at the end-host with the applications running the show! The paper by Smith, Mutka and Rover presents a feedback rate control scheme for multimedia conferencing over the Internet. Feng, Lam and Liu propose a bandwidth smoothing algorithm that can effectively reduce the network resource requirements for the delivery of compressed video streams. The paper by Kravets, Calvert and Schwan proposes a communication layer for distributed interactive applications that adapts itself based on both application requirements as well as network resource availability. Malan, Jahanian and Subramanian propose an attribute-based routing substrate for push applications.

As you will see, the papers selected for this issue propose innovative solutions to some of the technical obstacles facing the multimedia entablement of the Internet. Although, many problems still remain, we believe that the seven papers in this issue will take us a step forward in the right direction.

Enjoy!

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