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Recent Developments in Video Coding Standards

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Video compression has been a key enabling technology for a variety of consumer electronics devices and applications such as DVD players, personal media players, digital camcorders, streaming video etc. Video coding standards, which standardize the way in which video data is compressed and used, have played a very important role in bringing economy of scale into these markets and making these devices affordable for the common man. In this talk, we will first briefly study some of the key advances made in video coding standards over the years. We will then cover some recent developments in video coding standards in ISO/IEC (MPEG) and ITU-T.

Madhukar Budagavi received his PhD in electrical engineering from Texas A&M University, College Station. From 1993-95, he worked at Motorola India Electronics developing DSP software and algorithms for Motorola DSP chips. Since 1998, he has been with DSP Solutions R&D Center, Texas Instruments, Dallas, TX, where he has worked on video coding, multimedia communication protocols, OpenGL ES 3D graphics, computer vision, and image processing. He is currently representing TI at international video coding standards meetings. He is a Senior Member of IEEE and has over 25 publications and one patent.

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