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## Preface

Digital signal processing (DSP) has made significant inroads into practically every commercial and military signal processing application. It has even started penetrating consumer applications, such as digital audio and video. The reasons are the ability to develop highly sophisticated algorithms, and the availability of fast and inexpensive devices to implement these algorithms.

This Critical Reviews volume addresses both the hardware and the algorithmic aspects of DSP. From the hardware standpoint, programmable and dedicated devices are considered, with input/output, memory, and architectural features covering several areas of applications. The main focus, though, is on algorithmic applications.

The algorithmic developments, presented in three sessions, address industrial applications, speech, audio, image processing, parallel processing, and adaptive DSP applications.

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**Panos Papamichalis**  
**Robert Kerwin**