

## 20. Digital Signal Processing

### Academic and Research Staff

*Prof. A.V. Oppenheim, Prof. A.B. Baggeroer, Prof. J.S. Lim,  
Prof. J.H. McClellan, Dr. G.A. Braccini, Y.-r. Li*

### Graduate Students

*A.J. Barabell, T.E. Bordley, W.P. Dove, F.U. Dowlu,  
G.L. Duckworth, C. Esmersey, M.J. Glaser, W.A. Harrison, M.H. Hayes,  
D. Izraelevitz, T.H. Joo, A.L. Kurkjian, S.W. Lang,  
D.S. Levinstone, N.A. Malik, E.E. Milios, D.R. Mook,  
B.R. Musicus, C. Myers, S.H. Nawab, A.L. Ressler,  
J.-P. Schott, V. Tom, G. Ueki, P.L. Van Hove, D.L. Wang,  
M.S. Wengrovitz, F.M. White*

### 20.1 Introduction

The Digital Signal Processing Group is carrying out research in the general area of digital signal processing with applications to speech, biomedical, image and geophysical data processing. In addition to specific projects being carried out on campus, there is close interaction with Lincoln Laboratory, with the Woods Hole Oceanographic Institution, with the Schlumberger-Doll Research Center, and with the Non-Invasive Diagnostic Laboratory at Massachusetts General Hospital.

In the area of speech processing, the Digital Signal Processing Group has been working on the development of systems for bandwidth compression of speech, parametric modeling of speech using pole-zero models, time-scale modification of speech, enhancement of degraded speech, and speech reconstruction from spectrograms. Our current work in the speech area involves the problem of enhancing degraded speech and a related problem, that of the development of algorithms for robust speech compression in the presence of additive noise. In addition, we are investigating a variety of conditions under which a speech signal can be reconstructed from spectrograms.

In a related area, the methods of speech compression using linear predictive encoding are being applied to the compression of data recorded in ocean bottom seismometers. These methods have been tested with data provided by Woods Hole Oceanographic Institution and indicate that data recording requirements can be halved with little loss of fidelity.

For the problem of non-invasive measurement of bloodflow characteristics two projects are being carried out. The first involves spectrum analysis of sounds generated by the heart (e.g., by artificial heart valves). The applicability of MEM spectrum analysis to these (rather short-duration) signals is being studied. It is hoped that with precise spectral measurements, it will be possible to detect and quantify degradations in artificial heart valve performance. The second project area involves the use

# Papers On Digital Signal Processing

**Denshi Jōhō Tsūshin Gakkai (Japan)**



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engineering careers Many instructive worked examples are used to illustrate the material and the use of mathematics is minimized for an easier grasp of concepts As such this title is also useful as a reference for non engineering students and practicing engineers The book goes beyond DSP theory showing the implementation of algorithms in hardware and software Additional topics covered include adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc More advanced topics are also covered such as adaptive filters speech compression such as PCM law ADPCM and multi rate DSP over sampling ADC subband coding and wavelet transform Covers DSP principles with an emphasis on communications and control applications Includes chapter objectives worked examples and end of chapter exercises that aid the reader in grasping key concepts and solving related problems Provides an accompanying website with MATLAB programs for simulation and C programs for real time DSP Presents new problems of varying types and difficulties

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