PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

6th Annual Mathematical Psychology Meeting, Montreal, Canada
August 25-26, 1973

J. E. Berliner and N. I. Durlach, A Perceptual-Anchor Model for Context Coding in Intensity Perception
L. D. Braida, J. E. Berliner, R. P. Lippmann, and N. I. Durlach, Intensity Resolution in Audition
R. P. Lippmann and L. D. Braida, Maximum-Likelihood Estimation of Resolution and Bias Parameters in Identification Experiments

IAU Symposium 60 "Galactic Radio Astronomy," Maroochydore, Australia
September 2-7, 1973

R. M. Price, Continuum Radio Emission and Galactic Structure

Symposium on Nonlinear Estimation and Its Applications, San Diego, California
September 10-12, 1973

J. M. F. Moura, H. L. Van Trees, and A. B. Baggeroer, Space/Time Tracking by a Passive Observer

26th Annual Conference on Engineering in Medicine and Biology, Minneapolis, Minnesota
September 30-October 4, 1973


XXIV International Astronautical Federation Congress, Baku, USSR
October 8-15, 1973


International Joint Conference on Pattern Recognition, Washington, D.C.
October 30-November 1, 1973

B. Blesser, R. Shillman, T. Kuklinski, C. Cox, M. Eden, and J. Ventura, A Theoretical Approach for Character Recognition Based on Phenomenological Attributes

86th Meeting, Acoustical Society of America, Los Angeles, California
October 30-November 2, 1973

A. G. Galaitsis and U. Ingard, Nonlinear Sound Propagation in a Duct with Resonant Lining
U. Ingard, Acoustical Characteristics of an Open-Ended Duct with Flow
K. N. Stevens, Theory of Vocal-Cord Vibration and Its Relation to Laryngeal Features

135
MEETING PAPERS PRESENTED (continued)

October 31-November 3, 1973

A. Bers and D. C. Watson, Stability Analysis for Third-Order Nonlinear Wave-Wave Interactions
F. W. Chambers, R. J. Hawryluk, and A. Bers, Pulse Evolution of Second-Order Wave-Wave Interactions
C. F. F. Karney, A. Bers, and J. L. Kulp, Nonlinear Excitation of Ion Waves near the Lower-Hybrid Frequency
M. S. Tekula and A. Bers, Current Driven Instabilities of Ion Waves at an Angle to $B_0$
M. L. Vianna and A. Bers, Beam-Plasma Interaction in a Longitudinal Density Gradient
D. C. Watson and A. Bers, Third-Order Nonlinear Theory of Wave-Wave Interactions

1973 IEEE Ultrasonic Symposium, U.S. Naval Post Graduate School, Monterey, California
November 5, 1973

A. Bers, Nonlinear Interactions of Acoustic Surface Waves with Electrons at Semiconductor Surfaces (invited paper)

Conference on the Anatomy and Physiology of the Stato-acoustic Nerve in Non-mammalian Vertebrates, Ames Research Center, Moffet Field, California
November 5-6, 1973

L. S. Frishkopf, Effects of Stimulation on Synaptic Body Size in Auditory Hair Cells in the Frog
M. J. Mulroy, Cochlear Anatomy of the Alligator Lizard

Third Annual Meeting, Society for Neuroscience, San Diego, California
November 7-10, 1973

L. S. Frishkopf, Discussant on a State-of-the-Art Panel, entitled "Hair Cells: A Most Stimulating and Exciting State"

NSF Conference on Optical Communication, Washington University, St. Louis, Missouri
November 13-15, 1973

J. H. Shapiro, Spatial Communication Theory for the Turbulent Atmosphere

JOURNAL PAPERS ACCEPTED FOR PUBLICATION

(Reprints, if available, may be obtained from the Document Room, 36-412, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139)

W. P. Allis and H. A. Haus, Electron Distribution in Gas Lasers (J. Appl. Phys.)

B. Blesser and F. Ives, A Reexamination of the S/N Question for Systems with Time-Varying Gain or Frequency Response (J. Audio Eng. Soc.)


B. Coppi and A. Taroni, Quasi-trapped Particle Orbits Due to Toroidal Plasma Modes (Plasma Phys.)

M. Eden, Image Processing Techniques in Relation to Studies of Red Cell Shape (Nouvelle Revue Française d'Hématologie)

C. Freed, A. H. M. Ross, and R. G. O'Donnell, Determination of Laser Line Frequencies and Vibrational-Rotational Constants of the $^{12}$C $^{18}$O$_2$, $^{13}$C $^{16}$O$_2$, and $^{13}$C $^{18}$O$_2$ Isotopes from Measurements of cw Beat Frequencies with Fast HgCdTe Photodiodes and Microwave Frequency Counters (J. Mol. Spectry.)

R. G. Gallager, Tree Encoding for Symmetric Sources with a Distortion Measure (IEEE Trans. (IT))


R. D. Hall and E. P. Lindholm, Organization of Motor and Somatosensory Neocortex in the Albino Rat (Brain Res.)

C. W. Helstrom and R. S. Kennedy, Noncommuting Observables in Quantum Detection and Estimation Theory (IEEE Trans. (IT))


Mary-Louise Kean, The Strict Cycle in Phonology (Ling. Inquiry)

N. Y. S. Kiang and E. C. Moxon, Tails of Tuning Curves of Auditory-Nerve Fibers (J. Acoust. Soc. Am.)


R. M. Mersereau, Recovering Multidimensional Signals from Their Projections (Computer Graphics and Image Processing)

P. C. Myers, Study of Correlations among OH, H$_2$CO, HI and Dust toward W 44 (Abstract) (Bull. Am. Astron. Soc.)


M. S. Tekula and A. Bers, Current-Driven Instabilities of Ion Waves at an Angle to B0 (Abstract) (Bull. Am. Phys. Soc.)

M. G. R. Thomson, Resolution and Contrast in the Conventional and the Scanning High-Resolution Transmission Electron Microscopes (Optik)


LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION


B. Coppi, Plasma Modes Due to Impurity and Magnetically Trapped Ions (Phys. Rev. Letters)

B. Coppi and T. J. Schep, Collisional Impurity Modes (Phys. Letters A)


TECHNICAL REPORTS PUBLISHED

(These and previously published technical reports, if available, may be obtained from the Document Room, 36-412, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139)

487 Nicholas Pippenger, The Complexity Theory of Switching Networks

SPECIAL PUBLICATIONS

B. Blesser and F. Ives, A Re-examination of the S/N Question for Systems with Time-Varying Gain or Frequency Response (Proc. 42nd Convention of Audio Engineering Society, Los Angeles, California, May 2-5, 1972), pp. 1-10


