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STUDY OF ONE- AND TWO-DIMENSIONAL FILTERING AND DECONVOLUTION ALGORITHMS FOR A STREAMING ARRAY COMPUTER

NASA GRANT NO. NSG 1648


FINAL REPORT

Appendix 5

Dr. George E. Ioup, Principal Investigator Department of Physics University of New Orleans New Orleans, LA 70148
IOUP, GEORGE ELIAS

EDUCATION

1968	 Ph.D., Physics, University of Florida
1962	 S. B., Physics, Massachusetts Institute of Technology

EXPERIENCE

1977-	 Assoc. Professor, Physics, University of New Orleans (UNO)
1969-1977	 Asst. Professor, Physics, UNO, formerly LSUNO, New Orleans, LA
1968-1969	 Asst. Professor, Physics, U. S. Coast Guard Academy, New London, CT
1967-1968	 Postdoctoral Research Fellow, University of Connecticut, Storrs, CT
1964-1967	 Research Assistant, University of Florida, Gainesville, FL
1962-1964	 Teaching Assistant, University of Florida, Gainesville, FL
1967	 Summers	 Research Assistant, MIT Science Teaching Center, Cambridge, MA
1957-1961

VISITING AND ADJUNCT POSITIONS

1980-1981	 Adjunct Assoc. Professor, Physics, Xavier University of Louisiana
Summer 1979	 NASA-ASEE Summer Faculty Fellow, Flight Electronics Division, NASA Langley Research Center.
Jan-May 1979	 Visiting Scholar, Optical Sciences Center, University of Arizona.
Summer 1978	 NASA-ASEE Summer Faculty Fellow, Analysis and Computation Division, NASA Langley Research Center.

MEMBERSHIP IN PROFESSIONAL AND HONORARY SOCIETIES

American Physical Society and Divisions (Elec. and Atomic Phys., Chem. Physics, Forum on Physics and Society)
Sigma Xi
Sigma Pi Sigma
Louisiana Section, American Association of Physics Teachers
Louisiana Academy of Sciences
Southeastern Section of the American Physical Society
Federation of American Scientists
Optical Society of America
Louisiana Science Teachers Association
Southeastern Geophysical Society

AWARDS (see also Visiting Positions)

PUBLICATIONS AND RESEARCH PAPERS

BOOKS


JOURNAL AND PROCEEDINGS ARTICLES


A.K.M. Sarwar, Juliette W. Ioup, and George E. Ioup, "Reconstruction of the Acoustic Impedance Log from the Fourier Components of the Seismogram Using One-Dimensional Inverse Theory," manuscript accepted for publication in the


RESEARCH PAPERS WITH PUBLISHED ABSTRACTS


* M. A. Whitehorn and G. E. Ioup, "Always-Convergent Iterative Noise Removal and Deconvolution for Two-Dimensional Images," paper presented before the


RESEARCH PAPERS


George E. Ioup, "Tomorrow's Energy," invited paper presented to the New Orleans Section, The Institute of Electrical and Electronics Engineers, November 18, 1976, New Orleans, LA.


"A Comparison of Beam-Forming Techniques for Hydrophone Arrays with Missing Elements," Mimi Zebrick Lawrence, December 1981 (Dr. Dan J. Ramsdale, co-director).


GRANTS RECEIVED (PRINCIPAL INVESTIGATOR OR MAJOR PARTICIPATION)

Research Grant, University of New Orleans Research Council, Summer 1971.

Physics of Music Course Development, Ford Foundation Venture Fund, Summer 1974, with Professor E. Beeson.

Physics of the Environment Course Development, Ford Foundation Venture Fund, Fall 1974, with Professor C. Bergeron.

Undergraduate Research Participation, supervision of research on Resolution Enhancement for Geophysical Data, National Science Foundation, Summer 1975, Professor T. Siddall, principal investigator.


Sabbatical Leave Award, University of New Orleans, spring 1979.


Faculty Summer Scholar Award, University of New Orleans, summer 1984.

GRANT PARTICIPATION

AEC Summer Institute for College Teachers on the Energy Crisis, lectures on Energy Conservation and on Climate Modification, University of New Orleans, Atomic Energy Commission, Summer 1974, Professor C. Bergeron, principal investigator.