This final technical report summarizes progress achieved through support of the grant. The report lists personnel supported; gives particulars about the computer support received; and lists publications derived from support of the grant.
Personnel Supported

Graduate students Tom Bleakney, Jim Hiroshige, Faramarz Ghovanlou, and Tom Leung were supported. Ilise Allott did technical typing. The Principle Investigator was supported during the academic year and summers.

Computer Support

In addition to the AFOSR arranged access to the Eglin AFB and Kirtland AFB systems, the grant supported telephone access to the Star 100 at NASA Langley and to the Cray I at NCAR. Machine time on the Cray I at United Computing Systems was purchased as well as PDP-10 and PDP-11 time at U.S.C. Time sharing was purchased at TRW and Hobbs Associates.

Research

The following papers resulted from the support of the grant.

A) Published


6) R. S. Bucy, "Nonlinear Filtering with Pipeline and Array Processors", Approved for public release; distribution unlimited.
Proc. of Conf. on Decision and Control, New Orleans, December 7-9, 1977, 626-629.


B) Papers to Appear


C) Research in Progress

The joint information between the phase lock loop estimate and the signal has been evaluated. Root locus for large scale space structures have been studied and "best" ones examined.

Distribution

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