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13. ABSTRACT (Maximum 200 words)  During the past year, we have worked on several research projects in the areas of reliability, stochastic systems, environmental models, life and social sciences, among others. In structuring the various statistical models in these areas, our aim was to clearly identify the problem under investigation, formulate the problem in such a manner so as to be mathematically complete, illustrate the usefulness of our findings with real data when available or depend on numerical simulation and interpret the final results.

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RESEARCH ACCOMPLISHMENTS

UNDER CONTRACT AFOSR-80-0164

by

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RESEARCH ACCOMPLISHMENTS

UNDER GRANT 80-0164
RESEARCH ACCOMPLISHMENTS

During the past year, we have worked on several research projects in the areas of reliability, stochastic systems, environmental models, life and social sciences, among others. In structuring the various statistical models in these areas, our aim was to clearly identify the problem under investigation, formulate the problem in such a manner so as to be mathematically complete, illustrate the usefulness of our findings with real data when available or depend on numerical simulation and interpret the final results.

A list of research papers that have appeared, have been accepted, or have been submitted for publication to various professional journals are given below.
RESULTS


OTHER PROFESSIONAL ACTIVITIES


2. Elected by the Society of Industrial and Applied Mathematics to serve as a visiting lecturer to academic and scientific institution.

3. Served on the editorial board for the Journal of Applied Mathematics and Computation--AMC.

4. Served on the editorial board of the International Journal of Integral Equations--JIE.


8. Have given about 15 one-hour lectures to students and faculty at the College of Medicine at U.S.F. in statistical methodology in medical sciences.


10. Elected to direct and organize the Stochastic Systems, participation of World Congress of Applied Mathematics and Computers, Montreal, Canada, August 1982.

11. Referred research manuscripts for several professional journals in mathematical sciences.


Significant time was spent in evaluating manuscripts of research papers that were submitted in the above journals consistent with my editorial and professional responsibilities.
PAPERS THAT HAVE BEEN PRESENTED AT
ACADEMIC INSTITUTIONS, NATIONAL AND REGIONAL MEETINGS
OF SCIENTIFIC SOCIETIES


* 3. Rice University, Department of Mathematical Sciences and Jones School of Business, "An Analytical Forecasting Model for Business Revenue," February 9, 1981.


* Invited talks