

Designing a polynomial regression experiment at researching into decision rules of signal recognition by modeling

Publisher: IEEE

Cite This



Alexey V. Fedorov ; Anatoliy V. Omelchenko [All Authors](#)

1
Paper
Citation

33
Full
Text Views



Abstract	Abstract:
Document Sections	<p>The problem of getting working characteristics of signal recognition decision rules by statistical modeling with the aid of polynomial regression has been considered. Designs to minimize the average prediction variance of a regression function over a design region (Q-optimal) have been substantiated. The effectiveness of the developed methods has been illustrated by examples.</p> <p>Published in: 2013 IEEE 7th International Conference on Intelligent Data Acquisition and Advanced Computing Systems (IDAACS)</p> <p>Date of Conference: 12-14 September 2013 INSPEC Accession Number: 13914703</p> <p>Date Added to IEEE Xplore: 14 November 2013 DOI: 10.1109/IDAACS.2013.6662654</p> <p>► ISBN Information: Publisher: IEEE</p> <p>Conference Location: Berlin, Germany</p>
I. Introduction	
II. Problem Statement	
III. Optimality Criteria For Polynomial Regression Experiments	
IV. A Relationship Between The Probability Of Signal Recognition Error And Sizes Of Learning Samples	
V. Q-optimal Designs Synthesis	