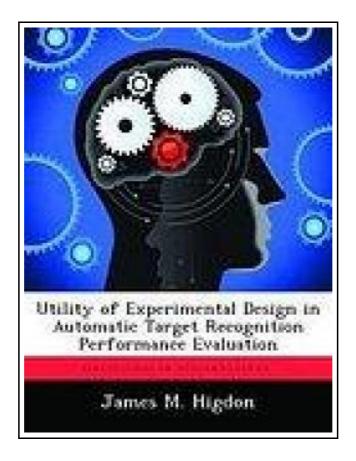
## Utility of Experimental Design in Automatic Target Recognition Performance Evaluation



Filesize: 2.93 MB

### Reviews

A really awesome book with lucid and perfect information. Of course, it is actually play, nonetheless an amazing and interesting literature. You are going to like just how the article writer create this ebook.

(Nakia Toy Jr.)

# UTILITY OF EXPERIMENTAL DESIGN IN AUTOMATIC TARGET RECOGNITION PERFORMANCE EVALUATION



Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x7 mm. This item is printed on demand - Print on Demand Neuware - This research investigates current practices in test and evaluation of classification algorithms, and recommends improvements. We scrutinize the evaluation of automatic target recognition algorithms and rationalize the potential for improvements in the accepted methodology. We propose improvements through the use of an experimental design approach to testing. We demonstrate the benefits of improvements by simulating algorithm performance data and using both methodologies to generate evaluation results. The simulated data is varied to test the sensitivity of the benefits to a broad set of outcomes. The opportunities for improvement are threefold. First, the current practice of 'one-at-a-time' factor variation (only one factor is varied in each test condition) fails to capture the effect of multiple factors. Next, the coarse characterization of data misses the opportunity to reduce the estimate of noise in test through the observation of uncontrolled factors. Finally, the lack of advanced data reduction and analysis tools renders analysis and reporting tedious and inefficient. This research addresses these shortcomings and recommends specific remedies through factorial testing, detailed data characterization, and logistic regression. We show how these innovations improve the accuracy and efficiency of automatic target recognition performance evaluation. 118 pp. Englisch.

- Read Utility of Experimental Design in Automatic Target Recognition Performance Evaluation Online
- Download PDF Utility of Experimental Design in Automatic Target Recognition Performance Evaluation

### Relevant PDFs



Daddyteller: How to Be a Hero to Your Kids and Teach Them What's Really by Telling Them One Simple Story at a Time

Createspace, United States, 2013. Paperback. Book Condition: New. 214 x 149 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. You have the power, Dad, to influence and educate your child. You can...

Read Book »



# A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)

Dover Publications, 2011. Paperback. Book Condition: New. No Jacket. New paperback book copy of A Dog of Flanders by Ouida (Marie Louise de la Ramee). Unabridged in easy to read type. Dover Children's Thrift Classic....

Read Book »



Preventing Childhood Eating Problems: A Practical, Positive Approach to Raising Kids Free of Food and Weight Conflicts

Book Condition: Brand New. Book Condition: Brand New.

Read Book »



It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em

HarperCollins Publishers. Paperback. Book Condition: new. BRAND NEW, It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em, Greg Behrendt, Amiira Ruotola-Behrendt, A fabulous new guide to dating...

Read Book »



Shadows Bright as Glass: The Remarkable Story of One Man's Journey from Brain Trauma to Artistic Triumph

Free Press. Hardcover. Book Condition: New. 1439143102 SHIPS WITHIN 24 HOURS!! (SAME BUSINESS DAY) GREAT BOOK!!.

Read Book »