



Radar Detection

Angelo Coluccia



Radar Detection:

Radar Detection Theory of Sliding Window Processes Graham Weinberg, 2017-09-27 Constant false alarm rate detection processes are important in radar signal processing. Such detection strategies are used as an alternative to optimal Neyman Pearson based decision rules since they can be implemented as a sliding window process running on a radar range Doppler map. This book examines the development of such detectors in a modern framework. With a particular focus on high resolution X band maritime surveillance radar, recent approaches are outlined and examined. Performance is assessed when the detectors are run in real X band radar clutter. The book introduces relevant mathematical tools to allow the reader to understand the development and follow its implementation.

Advances in Adaptive Radar Detection and Range Estimation Chengpeng Hao, Danilo Orlando, Jun Liu, Chaoran Yin, 2021-12-03 This book provides a comprehensive and systematic framework for the design of adaptive architectures which take advantage of the available a priori information to enhance the detection performance. Moreover, this framework also provides guidelines to develop decision schemes capable of estimating the target position within the range bin. To this end, the readers are driven step by step towards those aspects that have to be accounted for at the design stage, starting from the exploitation of system and/or environment information up to the use of target energy leakage energy spillover which allows inferring on the target position within the range cell under test. In addition to design issues, this book presents an extensive number of illustrative examples based upon both simulated and real recorded data. Moreover, the performance analysis is enriched by considerations about the trade off between performances and computational requirements. Finally, this book could be a valuable resource for PhD students, researchers, professors, and more generally engineers working on statistical signal processing and its applications to radar systems.

Adaptive Radar Detection: Model-Based, Data-Driven and Hybrid Approaches Angelo Coluccia, 2022-11-30 This book shows you how to adopt data driven techniques for the problem of radar detection both per se and in combination with model based approaches. In particular, the focus is on space time adaptive target detection against a background of interference consisting of clutter, possible jammers, and noise. It is a handy, concise reference for many classic model based adaptive radar detection schemes as well as the most popular machine learning techniques, including deep neural networks, and helps you identify suitable data driven approaches for radar detection and the main related issues. You will learn how data driven tools relate to and can be coupled or hybridized with traditional adaptive detection statistics, understand fundamental concepts, schemes, and algorithms from statistical learning, classification, and neural networks domains. The book also walks you through how these concepts and schemes have been adapted for the problem of radar detection in the literature and provides you with a methodological guide for the design, illustrating different possible strategies. You will be equipped to develop a unified view under which you can exploit the new possibilities of the data driven approach, even using simulated data. This book is an excellent resource for Radar professionals and industrial researchers, postgraduate students in electrical engineering, and the

academic community **Library of Congress Subject Headings** Library of Congress,2007 Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office,2009 **Popular Science** ,1990-02 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *Three-Tier Shared Spectrum, Shared Infrastructure, and a Path to 5G* Preston Marshall,2017-08-03 16 8 Aeronautical Services **NASA Thesaurus** ,1988 *Popular Science* ,1990-02 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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August 2022 with online presentations available for those not able to attend in person due to continuing pandemic restrictions The conference served as an open forum for the sharing and spreading of the newest ideas and latest research findings among all those involved in any aspect of applied mathematics modeling and computer simulation and offered an ideal platform for bringing together researchers practitioners scholars professors and engineers from all around the world to exchange the newest research results and stimulate scientific innovation More than 150 participants were able to exchange knowledge and discuss the latest developments at the conference The book contains 127 peer reviewed papers selected from more than 200 submissions and ranging from the theoretical and conceptual to the strongly pragmatic all addressing industrial best practice Topics covered included mathematical modeling and application engineering applications and scientific computations and simulation of intelligent systems The book shares practical experiences and enlightening ideas and will be of interest to researchers and practitioners in applied mathematics modeling and computer simulation everywhere

Proceeding of 2021 International Conference on Wireless Communications, Networking and Applications Zhihong Qian,M.A. Jabbar,Xiaolong Li,2022-07-12 This open access proceedings includes original unpublished peer reviewed research papers from the International Conference on Wireless Communications Networking and Applications WCNA2021 held in Berlin Germany on December 17 19th 2021 The topics covered include but are not limited to wireless communications networking and applications The papers showcased here share the latest findings on methodologies algorithms and applications in communication and network making the book a valuable asset for professors researchers engineers and university students alike This is an open access book **DOD Simulations** United States. General Accounting Office,1987 Popular Mechanics ,1991-03 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Federal Register** ,1992 **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy,1991 **P-Z** Library of Congress. Office for Subject Cataloging Policy,1990 **Library of Congress Subject Headings: P-Z** Library of Congress. Subject Cataloging Division,1989

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Radar Detection**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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