

Radar 87

19th–21st October 1987, Kensington & Chelsea Town Hall, London, UK

The following contributions appear in IEE Conference Publication 281:

Keynote address

Consumer education in radar. D.K. Barton

Bistatic

Bistatic radars for air defence. M.R.B. Dunsmore
Description of an experimental bistatic radar system. T.A. Soame and D.M. Gould
Bistatic radar coverage — a quantification of system and environmental influences. H. Kuschel
Synchronisation aspects for bistatic radars. C.K. Bovey and C.P. Horne

Phased array radar

Airborne solid state phased arrays: a system engineering perspective. R.H. Logan
A modular approach to multi-function radar design for naval application. G.R.G. Thompson
MESAR — an advanced experimental phased array radar. E.R. Billam and D.H. Harvey
Affordable GaAs Tx/Rx modules for phased-array radar. P.A. Claridge, M.D.R. Tench, C.R. Green, A.A. Lane, L.I. Gregory and D.M. Mannors
The pointing accuracy of phased array radars with correlated phase errors. J.T. Nessmith, E.J. Holder, L.E. Corey and R.L. Howard
The phase-scanned commutated array network. R. Young

SAR

Multistage imaging process — an approach to reduce the computation requirement in digital SAR imaging. Xu Wei and Prof. Chen Zong-Zhi
A synthetic aperture mode for the AN/APS-506 radar. G.E. Haslam, M.R. Vant and D. DiFilippo
Data reduction aspects of SAR image segmentation and clutter modelling. C.J. Oliver and R.G. White
Prediction of the geometric positioning errors in SAR imagery. D. Blacknell and R.G. White

Discrimination and target classification

Classification of radar targets by means of multiple hypotheses testing. Prof. A. Farina and A. Visconti
Signal processing possibilities for pulse radars using polarimetric information. G. Wanielik
Robustness of eigen based analysis techniques versus iterative adaptation. I.J. Clarke

HF radar

Progress in ship tracking by hf ground-wave radar. A.M. Ponsford, D.J. Bagwell, D. Money and M. Gledhill
An FMICW ground-wave radar for remote sensing of ocean waves and currents. Prof. E.D.R. Shearman, G.D. Burrows and M.D. Moorhead
Advanced techniques for remote sensing of ocean surface conditions with HF skywave radars. S.J. Anderson

The adaptive suppression of interference in HF ground wave radar. Sqn. Ldr. J.M. Madden

Radar systems I

Medium range radar processing: experimental results. G. Desodt and J.P. Larvor
Weather channel for a primary surveillance radar. W. Klembowski and R. Jankowski
System aspects of a solid-state FM-CW weather surveillance radar. L.P. Lighthart and L.R. Nieuwkerk
A study of the cost-effectiveness of air defense surveillance radars. Li Nengjing

Data processing

A multitarget track-while-scan filter. S. Blake and S.C. Watts
Cascaded spatial correlation processes for dense contact environments. W.G. Bath, M.E. Baldwin and W.D. Stuckey
On single-target tracking in dense clutter environment — quantitative results. W. Fleskes and G. van Keuk
An adaptive filter for manoeuvring target tracking with a set of parallel detectors. Wang San-min and Prof. Zhang Yi-Jie
A multiprocessor associative computer optimized for multisite radar tracking. R.A. Elseley and Prof. R.J. Evans

Surveillance radar systems for ATC

Operational requirements — surveillance system. H. McCallum
Fully solid-state radar for air traffic control. N. de Ledinghen and L. Wonneberger
The RAMP PSR, a solid-state surveillance radar. H.R. Ward
The effect of impedance matched radomes on SSR antenna systems. K.C. Chang and A.P. Smolski
Monopulse secondary surveillance radar. M.C. Stevens

Detection

Cell-averaging CFAR detection with distributed radars and data fusion. M. Barkat and Prof. P.K. Varshney
Analysis of radar receivers for dual polarization target detection. Prof. D. Giuli and A. Rossetini
An improvement on detection performance of hard-limited phase-coded signals. Zhang Bo and Prof. Bao Zheng

SSR signal processing

An improved azimuthal estimator for conventional SSR. Prof. G. Galati and F.A. Studer
3D monopulse localization in airborne IFF interrogator. A. Janex
Surveillance processing in the mode S sensor. J.L. Gertz
Radar data processing with new generation monopulse SSR radars. J.M. Shaw
Errors in aircraft height information telemetered by secondary surveillance radar systems. D.B. Jenkins, B.A. Wyndham and P. Banks

Clutter

Radar sea clutter: spectrum properties in X band and false alarm rate. J.J.M. Isnard, Miss J. Garat and J.M. Laplagne

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Radar 2002 15 17 October 2002 Iee Conference Proceedings

Nicholas J. Willis, Hugh D. Griffiths



Radar 2002 15 17 October 2002 Iee Conference Proceedings:

Bistatic Radar Mikhail Cherniakov, 2008-10-13 The impact of bistatic radar technology on remote sensing is increasing as bistatic systems cross the theoretical threshold into practical embodiment The wide spectrum of radar applications including space exploration defence transport aerospace and meteorology provides persistent impetus for this progress This book is dedicated to the more advanced studies in bistatic radar which are currently the subject of intensive research activity and development With contributions from the leading experts in the field of bistatic radar research this book collates the latest developments in the field focusing particularly on bistatic synthetic aperture radar BSAR and passive bistatic radar systems PBRs Within these two areas the text addresses the main BSAR topologies spaceborne BSAR airborne BSAR and space surface BSAR analyses the resurgent interest in and practical applications of PBRs introduces passive BSAR technology covers research of systems used in aircraft detection and tracking and passive radar remote sensing of the ionosphere and the upper atmosphere Bistatic Radar Emerging Technology is an invaluable resource for practising engineers and researchers involved in the design and implementation of advanced bistatic radar systems in aerospace communications defence transport and meteorology Following on from Bistatic Radar Principles and Practice it is also a comprehensive reference on the latest research for postgraduate students taking specialist courses in radar technology **Low Power**

UWB CMOS Radar Sensors Hervé Paulino, Joao Goes, Adolfo Steiger Garção, 2008-05-02 Low Power UWB CMOS Radar Sensors deals with the problem of designing low cost CMOS radar sensors The radar sensor uses UWB signals in order to obtain a reasonable target separation capability while maintaining a maximum signal frequency below 2 GHz This maximum frequency value is well within the reach of current CMOS technologies The use of UWB signals means that most of the methodologies used in the design of circuits and systems that process narrow band signals can no longer be applied Low Power UWB CMOS Radar Sensors provides an analysis between the interaction of UWB signals the antennas and the processing circuits This analysis leads to some interesting conclusions on the types of antennas and types of circuits that should be used A methodology to compare the noise performance of UWB processing circuits is also derived This methodology is used to analyze and design the constituting circuits of the radar transceiver In order to validate the design methodology a CMOS prototype is designed and experimentally evaluated **Advances in SAR: Sensors, Methodologies,**

and Applications Timo Balz, Uwe Soergel, Mattia Crespi, Batuhan Osmanoglu, 2018-10-22 This book is a printed edition of the Special Issue Advances in SAR Sensors Methodologies and Applications that was published in Remote Sensing Radar 2002, 2002 A collection of the papers given at the RADAR Conference held in 2002 **Academic Press Library in Signal Processing** Fulvio Gini, Nikolaos D. Sidiropoulos, 2013-09-10 This second volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in communications and radar engineering With this reference source you will Quickly grasp a new area of research

Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Wide Bandgap Semiconductor Based Micro/Nano Devices Jung-Hun Seo, 2019-04-25 While group IV or III V based device technologies have reached their technical limitations e g limited detection wavelength range or low power handling capability wide bandgap WBG semiconductors which have band gaps greater than 3 eV have gained significant attention in recent years as a key semiconductor material in high performance optoelectronic and electronic devices These WBG semiconductors have two definitive advantages for optoelectronic and electronic applications due to their large bandgap energy WBG energy is suitable to absorb or emit ultraviolet UV light in optoelectronic devices It also provides a higher electric breakdown field which allows electronic devices to possess higher breakdown voltages This Special Issue seeks research papers short communications and review articles that focus on novel synthesis processing designs fabrication and modeling of various WBG semiconductor power electronics and optoelectronic devices

Applications of Space-Time Adaptive Processing Richard Klemm, Institution of Electrical Engineers, 2004-08-13 This text discusses various applications of space time adaptive processing including applications in OTH radar ground target tracking STAP in real world clutter environments jammer cancellation superresolution active sonar seismics and communications It is divided into two parts the first dealing with the classical adaptive suppression of airborne and spacebased radar clutter and the second comprising of miscellaneous applications in other fields such as communications underwater sound and seismics

Advances in Bistatic Radar Nicholas J. Willis, Hugh D. Griffiths, 2007-06-30 This comprehensive reference updates bistatic and multistatic radar developments since the publication of Nicholas Willis seminal book Bistatic Radar published in 1991 and revised in 1995 The book is organized into two major sections Bistatic Multistatic Radar Systems and Bistatic Clutter and Signal Processing New and recently declassified military applications are documented Civil applications are detailed for the first time including commercial and scientific systems Several of the most honored radar engineers of this era provide expertise in each of these applications Professionals in radar and sonar will find this book a valuable resource

Bistatic SAR / GISAR / FISAR Geometry, Signal Models and Imaging Algorithms Andon Dimitrov Lazarov, Todor Pavlov Kostadinov, 2013-12-11 Bistatic radar consists of a radar system which comprises a transmitter and receiver which are separated by a distance comparable to the expected target distance This book provides a general theoretical description of such bistatic technology in the context of synthetic aperture inverse synthetic aperture and forward scattering radars from the point of view of analytical geometrical and signal formation as well as processing theory

Signal formation and image reconstruction algorithms are developed with the application of high informative linear frequency and phase code modulating techniques and numerical experiments that confirm theoretical models are carried out. The authors suggest the program implementation of developed algorithms. A theoretical summary of the latest results in the field of bistatic radars is provided before applying an analytical geometrical description of scenarios of bistatic synthetic aperture inverse synthetic aperture and forward scattering radars with cooperative and non cooperative transmitters. Signal models with linear frequency and phase code modulation are developed and special phase modulations with C A coarse acquisition and P precision of GPS satellite transmitters are considered. The authors suggest Matlab implementations of all geometrical models and signal formation and processing algorithms.

Contents

- 1 Bistatic Synthetic Aperture Radar BSAR Survey
- 2 BSAR Geometry
- 3 BSAR Waveforms and Signal Models
- 4 BSAR Image Reconstruction Algorithms
- 5 Analytical Geometrical Determination of BSAR Resolution
- 6 BSAR Experimental Results
- 7 BSAR Matlab Implementation

A general theoretical description of bistatic technology within the scope of synthetic aperture inverse synthetic aperture and forward scattering radars from the point of view of analytical geometrical and signal formation and processing theory. Signal formation and image reconstruction algorithms are developed in this title with application of high informative linear frequency and phase code modulating techniques. Numerical experiments that confirm theoretical models are carried out and the authors suggest program implementation for the algorithms developed.

Smart Antennas for Wireless

Communications Frank Gross, 2005-10-05 Smart antennas boost the power of a wireless network saving energy and money and greatly increasing the range of wireless broadband. Smart Antennas is a rigorous textbook on smart antenna design and deployment.

Proceedings of the ... International Symposium on Technology and the Mine Problem, 2004

Sea Clutter

Keith D. Ward, Simon Watts, Robert J.A. Tough, 2006-06-21 Sea Clutter: Scattering the K Distribution and Radar Performance examines the statistics of radar scattering from the sea surface in terms of their relevance to radar operating in a maritime environment including remote sensing surveillance and targeting applications. A lot of the work in the book is based on the compound K distribution model for the amplitude statistics of sea clutter. In addition the book addresses the specification of performance required by customers and the measurement of performance of systems supplied to customers.

Computational Science - ICCS 2018 Yong Shi, Haohuan Fu, Yingjie Tian, Valeria V. Krzhizhanovskaya, Michael Harold Lees, Jack Dongarra, Peter M. A. Sloot, 2018-06-11 The three volume set LNCS 10860 10861 10862 constitutes the proceedings of the 18th International Conference on Computational Science ICCS 2018 held in Wuxi China in June 2018. The total of 155 full and 66 short papers presented in this book set was carefully reviewed and selected from 404 submissions. The papers were organized in topical sections named Part I ICCS Main Track Part II Track of Advances in High Performance Computational Earth Sciences Applications and Frameworks Track of Agent Based Simulations Adaptive Algorithms and Solvers Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning Track of Architecture.

Languages Compilation and Hardware Support for Emerging ManYcore Systems Track of Biomedical and Bioinformatics
Challenges for Computer Science Track of Computational Finance and Business Intelligence Track of Computational
Optimization Modelling and Simulation Track of Data Modeling and Computation in IoT and Smart Systems Track of Data
Driven Computational Sciences Track of Mathematical Methods and Algorithms for Extreme Scale Track of Multiscale
Modelling and Simulation Part III Track of Simulations of Flow and Transport Modeling Algorithms and Computation Track of
Solving Problems with Uncertainties Track of Teaching Computational Science Poster Papers **Ultra-Wideband**

Antennas and Propagation Ben Allen,Mischa Dohler,Ernest Okon,Wasim Malik,Anthony Brown,David Edwards,2006-11-02
Providing up to date material for UWB antennas and propagation as used in a wide variety of applications Ultra wideband
Antennas and Propagation for Communications Radar and Imaging includes fundamental theory practical design information
and extensive discussion of UWB applications from biomedical imaging through to radar and wireless communications An in
depth treatment of ultra wideband signals in practical environments is given including interference coexistence and diversity
considerations The text includes antennas and propagation in biological media in addition to more conventional environments
The topics covered are approached with the aim of helping practising engineers to view the subject from a different angle
and to consider items as variables that were treated as constants in narrowband and wideband systems Features tables of
propagation data photographs of antenna systems and graphs of results e g radiation patterns propagation characteristics
Covers the fundamentals of antennas and propagation as well as offering an in depth treatment of antenna elements and
arrays for UWB systems and UWB propagation models Provides a description of the underlying concepts for the design of
antennas and arrays for conventional as well as ultra wideband systems Draws together UWB theory by using case studies to
show applications of antennas and propagation in communication radar and imaging systems The book highlights the unique
design issues of using ultra wideband and will serve both as an introductory text and a reference guide for designers and
students alike **Conformal Array Antenna Theory and Design** Lars Josefsson,Patrik Persson,2006-02-03 This is the first

comprehensive treatment of conformal antenna arrays from an engineering perspective While providing a thorough
foundation in theory the authors of this publication provide a wealth of hands on instruction for practical analysis and design
of conformal antenna arrays Thus you get the knowledge you need alongside the practical know how to design antennas that
are integrated into such structures aircrafts or skyscrapers **Information Security and Ethics: Concepts,**

Methodologies, Tools, and Applications Nemati, Hamid,2007-09-30 Presents theories and models associated with
information privacy and safeguard practices to help anchor and guide the development of technologies standards and best
practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the
opportunities future challenges and emerging trends related to this subject Advanced Technology Related to Radar

Signal, Imaging, and Radar Cross-Section Measurement Hirokazu Kobayashi,Toshifumi Moriyama,2020-06-16 Radar related

technology is mainly processed within the time and frequency domains but at the same time is a multi dimensional integrated system including a spatial domain for transmitting and receiving electromagnetic waves As a result of the enormous technological advancements of the pioneers actively discussed in this book research and development in multi dimensional undeveloped areas is expected to continue This book contains state of the art work that should guide your research *The Use of Remote Sensing in Hydrology* Frédéric Frappart,Luc Bourrel,2018-06-01 This book is a printed edition of the Special Issue The Use of Remote Sensing in Hydrology that was published in Water

Tracking and Sensor Data Fusion
Wolfgang Koch,2013-09-20 Sensor Data Fusion is the process of combining incomplete and imperfect pieces of mutually complementary sensor information in such a way that a better understanding of an underlying real world phenomenon is achieved Typically this insight is either unobtainable otherwise or a fusion result exceeds what can be produced from a single sensor output in accuracy reliability or cost This book provides an introduction Sensor Data Fusion as an information technology as well as a branch of engineering science and informatics Part I presents a coherent methodological framework thus providing the prerequisites for discussing selected applications in Part II of the book The presentation mirrors the author s views on the subject and emphasizes his own contributions to the development of particular aspects With some delay Sensor Data Fusion is likely to develop along lines similar to the evolution of another modern key technology whose origin is in the military domain the Internet It is the author s firm conviction that until now scientists and engineers have only scratched the surface of the vast range of opportunities for research engineering and product development that still waits to be explored the Internet of the Sensors Proceedings of the 15th International Ship and Offshore Structures Congress A.E Mansour,R.C Ertekin,2003-06-26 KEY FEATURES Provides researchers in Ocean engineering with a thorough review of the latest research in the field Lengthy reports by leading experts A valuable resource for all interested in ocean engineering DESCRIPTION The International Ship and Offshore Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research These three volumes contain the eight technical committee reports six Specialist Committee and 2 Special Task Committee reports which were presented for the 15th International Ship and Offshore Structures Congress ISSC 2004 in San Diego USA between 11th and 15th August 2003 Volume III will be published in 2004 and is to contain the discussion of the reports the chairmen s reply the text of the invited Lecture and the congress report of ISSC 2003

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Table of Contents Radar 2002 15 17 October 2002 Iee Conference Proceedings

1. Understanding the eBook Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - The Rise of Digital Reading Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Advantages of eBooks Over Traditional Books
2. Identifying Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - User-Friendly Interface
4. Exploring eBook Recommendations from Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Personalized Recommendations
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings User Reviews and Ratings
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings and Bestseller Lists
5. Accessing Radar 2002 15 17 October 2002 Iee Conference Proceedings Free and Paid eBooks
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings Public Domain eBooks
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings eBook Subscription Services
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings Budget-Friendly Options

6. Navigating Radar 2002 15 17 October 2002 Iee Conference Proceedings eBook Formats
 - ePub, PDF, MOBI, and More
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings Compatibility with Devices
 - Radar 2002 15 17 October 2002 Iee Conference Proceedings Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Highlighting and Note-Taking Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Interactive Elements Radar 2002 15 17 October 2002 Iee Conference Proceedings
8. Staying Engaged with Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Radar 2002 15 17 October 2002 Iee Conference Proceedings
9. Balancing eBooks and Physical Books Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Radar 2002 15 17 October 2002 Iee Conference Proceedings
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Setting Reading Goals Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Fact-Checking eBook Content of Radar 2002 15 17 October 2002 Iee Conference Proceedings
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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