



SPIE. DEFENSE+ COMMERCIAL SENSING

Defense Security Sensing 2015 Exploitation

Jerry M. Couretas



Defense Security Sensing 2015 Exploitation:

Sparsity-Based Multipath Exploitation for Through-the-Wall Radar Imaging Michael Leigsnering, 2018-02-16 This thesis reports on sparsity based multipath exploitation methods for through the wall radar imaging Multipath creates ambiguities in the measurements provoking unwanted ghost targets in the image This book describes sparse reconstruction methods that are not only suppressing the ghost targets but using multipath to one's advantage With adopting the compressive sensing principle fewer measurements are required for image reconstruction as compared to conventional techniques The book describes the development of a comprehensive signal model and some associated reconstruction methods that can deal with many relevant scenarios such as clutter from building structures secondary reflections from interior walls as well as stationary and moving targets in urban radar imaging The described methods are evaluated here using simulated as well as measured data from semi controlled laboratory experiments

Big Data Analytics in Cybersecurity Onur Savas, Julia Deng, 2017-09-18 Big data is presenting challenges to cybersecurity For an example the Internet of Things IoT will reportedly soon generate a staggering 400 zettabytes ZB of data a year Self driving cars are predicted to churn out 4000 GB of data per hour of driving Big data analytics as an emerging analytical technology offers the capability to collect store process and visualize these vast amounts of data Big Data Analytics in Cybersecurity examines security challenges surrounding big data and provides actionable insights that can be used to improve the current practices of network operators and administrators Applying big data analytics in cybersecurity is critical By exploiting data from the networks and computers analysts can discover useful network information from data Decision makers can make more informative decisions by using this analysis including what actions need to be performed and improvement recommendations to policies guidelines procedures tools and other aspects of the network processes Bringing together experts from academia government laboratories and industry the book provides insight to both new and more experienced security professionals as well as data analytics professionals who have varying levels of cybersecurity expertise It covers a wide range of topics in cybersecurity which include Network forensics Threat analysis Vulnerability assessment Visualization Cyber training In addition emerging security domains such as the IoT cloud computing fog computing mobile computing and cyber social networks are examined The book first focuses on how big data analytics can be used in different aspects of cybersecurity including network forensics root cause analysis and security training Next it discusses big data challenges and solutions in such emerging cybersecurity domains as fog computing IoT and mobile app security The book concludes by presenting the tools and datasets for future cybersecurity research

[An Introduction to Cyber Modeling and Simulation](#) Jerry M. Couretas, 2018-09-19 Introduces readers to the field of cyber modeling and simulation and examines current developments in the US and internationally This book provides an overview of cyber modeling and simulation M S developments Using scenarios courses of action COAs and current M S and simulation environments the author presents the overall information assurance process incorporating the people policies

processes and technologies currently available in the field The author ties up the various threads that currently compose cyber M S into a coherent view of what is measurable simulative and usable in order to evaluate systems for assured operation An Introduction to Cyber Modeling and Simulation provides the reader with examples of tools and technologies currently available for performing cyber modeling and simulation It examines how decision making processes may benefit from M S in cyber defense It also examines example emulators simulators and their potential combination The book also takes a look at corresponding verification and validation V V processes which provide the operational community with confidence in knowing that cyber models represent the real world This book Explores the role of cyber M S in decision making Provides a method for contextualizing and understanding cyber risk Shows how concepts such the Risk Management Framework RMF leverage multiple processes and policies into a coherent whole Evaluates standards for pure IT operations cyber for cyber and operational mission cyber evaluations cyber for others Develops a method for estimating both the vulnerability of the system i e time to exploit and provides an approach for mitigating risk via policy training and technology alternatives Uses a model based approach An Introduction to Cyber Modeling and Simulation is a must read for all technical professionals and students wishing to expand their knowledge of cyber M S for future professional work **Howard P.**

"Buck" McKeon National Defense Authorization Act for Fiscal Year 2015 United States. Congress. House. Committee on Armed Services,2014 Howard P. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015, May 13, 2014, 113-2 House Report 113-446 ,2014 *Compressed Sensing in Radar Signal Processing* Antonio De Maio,Yonina C.

Eldar,Alexander M. Haimovich,2019-10-17 Learn about the latest theoretical and practical advances in radar signal processing using tools from compressive sensing **Department of Defense Authorization for Appropriations for Fiscal Year 2015 and the Future Years Defense Program, Senate Hrg. 113-465, PT.5, March 11: April 1, 8, 2014, 113-2 ,2015** Howard F. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015 United States. Congress. House. Committee on Armed Services,2014 Department of Defense Authorization for Appropriations for Fiscal Year 2015 and the Future Years Defense Program United States. Congress. Senate. Committee on Armed Services,2015

Handbook of Convex Optimization Methods in Imaging Science Vishal Monga,2017-10-27 This book covers recent advances in image processing and imaging sciences from an optimization viewpoint especially convex optimization with the goal of designing tractable algorithms Throughout the handbook the authors introduce topics on the most key aspects of image acquisition and processing that are based on the formulation and solution of novel optimization problems The first part includes a review of the mathematical methods and foundations required and covers topics in image quality optimization and assessment The second part of the book discusses concepts in image formation and capture from color imaging to radar and multispectral imaging The third part focuses on sparsity constrained optimization in image processing and vision and includes inverse problems such as image restoration and de noising image classification and recognition and learning based

problems pertinent to image understanding Throughout convex optimization techniques are shown to be a critically important mathematical tool for imaging science problems and applied extensively Convex Optimization Methods in Imaging Science is the first book of its kind and will appeal to undergraduate and graduate students industrial researchers and engineers and those generally interested in computational aspects of modern real world imaging and image processing problems

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