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A Low-complexity Parallel-friendly Rate Control Algorithm for Ultra-low Delay High Definition Video Coding A Fast Preamble Detection Algorithm for Ultra Low Powered Receivers An ultra-fast algorithm in tomography Algorithmic and Analysis Techniques in Property Testing Analog-and-Algorithm-Assisted Ultra-low Power Biosignal Acquisition Systems Artifact Paths Removal Algorithm for Ultra-wideband Channels Routing Algorithms in Networks-on-Chip Parallel Algorithms with Ultra-fast Expected Times A New Algorithm to Split and Merge Ultra-high Resolution 3D Images Data Science Advanced Hybrid Information Processing C++ Data Structures and Algorithm Design Principles Discrete Algorithms Ultra-Wideband Short-Pulse Electromagnetics 4 Handbook of Parallel Computing System Parameter Identification Advances in Computer Graphics Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting Underwater Real-Time 3D Acoustical Imaging Target Recognition Using Late-Time Returns from Ultra-Wideband, Short- Pulse Radar Optimization of Routing Algorithm for Interconnect Delay in Ultra Large Scale Iteration Designs Advanced Materials and Information Technology Processing Artificial Intelligence and Security Novel Algorithms and Techniques in Telecommunications and Networking The use of the genetic algorithm approach in the design of ultra-wideband antennas Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications High Efficiency Video Coding (HEVC) PULSE Intelligent Algorithms in Ambient and Biomedical Computing Radar 97 Robust Channel Estimation for Ultra-wideband Communication Systems Using H [infinity] Algorithm Dear Science and Other Stories Algorithm Engineering Web Technologies and Applications Database and Expert Systems Applications Dissemination of Information in Optical Networks: Equalization of Ultra Wideband Wireless Systems Using Genetic Algorithm Algorithms and Architectures for Parallel Processing A Novel Ultra-fast Parallel Algorithm for Image Compression Using Semi-orthogonal Spline Boundary Wavelets WHO operational handbook on tuberculosis. Module 3

High Efficiency Video Coding (HEVC) Feb 04 2021 This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video – they will also include the deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design – a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its implementation.

Target Recognition Using Late-Time Returns from Ultra-Wideband, Short- Pulse Radar Sep 11 2021
The goal of this research is to develop algorithms that recognize targets by exploiting properties in the

late-time resonance induced by ultra- wide band radar signals. A new variant of the Matrix Pencil Method algorithm is developed that identifies complex resonant frequencies present in the scattered signal. Kalman filters are developed to represent the dynamics of the signals scattered from several target types. The Multiple Model Adaptive Estimation algorithm uses the Kalman filters to recognize targets. The target recognition algorithm is shown to be successful in the presence of noise. The performance of the new algorithms is compared to that of previously published algorithms.

Routing Algorithms in Networks-on-Chip Oct 24 2022 This book provides a single-source reference to routing algorithms for Networks-on-Chip (NoCs), as well as in-depth discussions of advanced solutions applied to current and next generation, many core NoC-based Systems-on-Chip (SoCs). After a basic introduction to the NoC design paradigm and architectures, routing algorithms for NoC architectures are presented and discussed at all abstraction levels, from the algorithmic level to actual implementation. Coverage emphasizes the role played by the routing algorithm and is organized around key problems affecting current and next generation, many-core SoCs. A selection of routing algorithms is included, specifically designed to address key issues faced by designers in the ultra-deep sub-micron (UDSM) era, including performance improvement, power, energy, and thermal issues, fault tolerance and reliability.

Ultra-Wideband Short-Pulse Electromagnetics 4 Mar 17 2022 Generation of High-Power Subnanosecond Pulses.- Fundamental Physical Considerations for Ultrafast Spark Gap Switching.- Novel source of Powerful Subnanosecond Microwave Pulses Based on Superradiance.- Demonstration of Sub-Millimeter Radiation Generation from Static Field by a Superluminous Ionization front in Semiconductor Capacitor Array.- About Mechanism of Wideband Microwave Radiation at Explosion of Condensed High Explosives.- Calorimetric Spectrometer for Measuring Single Microwave Pulses in Relativistic Microwave Electronics Devices.- Universal Sensor Using Electro-Optic Sensing Principl.

Data Science Jul 21 2022 This two volume set (CCIS 901 and 902) constitutes the refereed proceedings of the 4th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2018 (originally ICYCSEE) held in Zhengzhou, China, in September 2018. The 125 revised full papers presented in these two volumes were carefully reviewed and selected from 1057 submissions. The papers cover a wide range of topics related to basic theory and techniques for data science including mathematical issues in data science, computational theory for data science, big data management and applications, data quality and data preparation, evaluation and measurement in data science, data visualization, big data mining and knowledge management, infrastructure for data science, machine learning for data science, data security and privacy, applications of data science, case study of data science, multimedia data management and analysis, data-driven scientific research, data-driven bioinformatics, data-driven healthcare, data-driven management, data-driven eGovernment, data-driven smart city/planet, data marketing and economics, social media and recommendation systems, data-driven security, data-driven business model innovation, social and/or organizational impacts of data science.

A Low-complexity Parallel-friendly Rate Control Algorithm for Ultra-low Delay High Definition Video Coding Apr 30 2023

PULSE Jan 03 2021 An emerging challenge in recent years for engineers, researchers, and data scientists across the globe is to acquire, store, and analyze ever-increasing amounts of data. In the past decade, a new paradigm in data acquisition called "compressed-sensing" has emerged to cope with this data explosion. Compressed sensing exploits the fact that in many applications, although the signal of interest has a large ambient dimension, the relevant information resides in a significantly lower dimensional space. For example, the Magnetic-Resonance-Imaging (MRI) data is sparse in the wavelet-domain. In this thesis, we consider the problem of computing a sparse Discrete-Fourier-Transform of a high-dimensional signal from its time-domain samples, as a representative example of compressed-sensing problems. We use this problem to investigate the tradeoff between the number of measurements, noise robustness, and the computational complexity of the recovery algorithm in compressed sensing problems. We propose a new family of deterministic sparse sensing matrices,

obtained by blending together diverse ideas from sparse graph codes, digital signal processing, and number-theoretic concepts like the Chinese-remainder-theorem (CRT). The specific sparse structure of the proposed family of measurement matrices further enables a Peeling-based Ultra-Low complexity algorithms for Sparse signal Estimation, that are accordingly dubbed PULSE algorithms. Further, using the CRT, we establish an intimate connection between the problem of computing a sparse DFT of a signal and decoding over an appropriately designed sparse graph code. This connection is then exploited 1) to design a sample efficient measurement matrix and a low-complexity peeling-style iterative recovery algorithm, and 2) to perform a rigorous analysis of the recovery algorithm by wielding powerful and well-established analytical tools like density-evolution, martingales, and expander graphs from the coding theory literature. In particular, we show that under some mild conditions a k -sparse n -length DFT of a signal can be computed using (nearly optimal) $4k$ measurements and $O(k \log k)$ computations. As a concrete example, when $k=300$, and $n = 3.8 \times 10^6$, our algorithm achieves computational savings by a factor of more than 6000, and savings in the number of input samples by a factor of more than 3900 over the standard Fast-Fourier-Transform (FFT) algorithms. This can be a significant advantage in many existing applications and can enable new classes of applications that were not thought to be practical so far. Next, we extend these results to the case of noise-corrupted samples, computing sparse 2D-DFTs as well as to interpolation of multi-variate sparse polynomials over the complex field and finite fields. We also demonstrate an application of the proposed PULSE algorithm to acquire the Magnetic-Resonance-Imaging of the Brain. This provides some empirical evidence that PULSE algorithms are applicable for acquiring more realistic signals. The proposed sensing framework and the recovery algorithm are sample efficient and robust against observation noise. We believe that this framework provides a possible direction towards designing efficient and low-power engineering solutions for sparse signal acquisition.

Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications Mar 05 2021 Ultra-Wideband Radio (UWB) earmarks a new radio access philosophy and exploits several GHz of bandwidth. It promises high data rate communication over short distances as well as innovative radar sensing and localization applications with unprecedented resolution. Fields of application may be found, among others, in industry, civil engineering, surveillance and exploration, for security and safety measures, and even for medicine. The book considers the basics and algorithms as well as hardware and application issues in the field of UWB radio technology for communications, localization and sensing based on the outcome of DFG's priority-funding program "Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications (UKoLoS)".

System Parameter Identification Jan 15 2022 Recently, criterion functions based on information theoretic measures (entropy, mutual information, information divergence) have attracted attention and become an emerging area of study in signal processing and system identification domain. This book presents a systematic framework for system identification and information processing, investigating system identification from an information theory point of view. The book is divided into six chapters, which cover the information needed to understand the theory and application of system parameter identification. The authors' research provides a base for the book, but it incorporates the results from the latest international research publications. Named a 2013 Notable Computer Book for Information Systems by Computing Reviews One of the first books to present system parameter identification with information theoretic criteria so readers can track the latest developments Contains numerous illustrative examples to help the reader grasp basic methods

Web Technologies and Applications Jun 27 2020 This book constitutes the proceedings of the 13th Asia-Pacific Conference APWeb 2011 held in conjunction with the APWeb 2011 Workshops XMLDM and USD, in Beijing, China, in April 2011. The 26 full papers presented together with 10 short papers, 3 keynote talks, and 4 demo papers were carefully reviewed and selected from 104 submissions. The submissions range over a variety of topics such as classification and clustering; spatial and temporal databases; personalization and recommendation; data analysis and application; Web mining; Web search and information retrieval; complex and social networks; and secure and

semantic Web.

Artifact Paths Removal Algorithm for Ultra-wideband Channels Nov 25 2022

Radar 97 Nov 01 2020 This volume contains the 178 papers that were presented at the International Conference on RADAR in 1997.

Dear Science and Other Stories Aug 30 2020 In *Dear Science and Other Stories* Katherine McKittrick presents a creative and rigorous study of black and anticolonial methodologies. Drawing on black studies, studies of race, cultural geography, and black feminism as well as a mix of methods, citational practices, and theoretical frameworks, she positions black storytelling and stories as strategies of invention and collaboration. She analyzes a number of texts from intellectuals and artists ranging from Sylvia Wynter to the electronica band Drexciya to explore how narratives of imprecision and relationality interrupt knowledge systems that seek to observe, index, know, and discipline blackness. Throughout, McKittrick offers curiosity, wonder, citations, numbers, playlists, friendship, poetry, inquiry, song, grooves, and anticolonial chronologies as interdisciplinary codes that entwine with the academic form. Suggesting that black life and black livingness are, in themselves, rebellious methodologies, McKittrick imagines without totally disclosing the ways in which black intellectuals invent ways of living outside prevailing knowledge systems.

Discrete Algorithms Apr 18 2022 This proceedings is designed for computer scientists, engineers and mathematicians interested in the use, design and analysis of algorithms, with special emphasis on questions of efficiency.

C++ Data Structures and Algorithm Design Principles May 19 2022 Get started with C++ programming by learning how to build applications using its data structures and algorithms Key Features Explore data structures such as arrays, stacks, and graphs with real-world examples Study the trade-offs between algorithms and data structures and discover what works and what doesn't Discover how techniques such as bloom filters and multi-way heaps boost real-world applications Book Description C++ is a mature multi-paradigm programming language that enables you to write high-level code with a high degree of control over the hardware. Today, significant parts of software infrastructure, including databases, browsers, multimedia frameworks, and GUI toolkits, are written in C++. This book starts by introducing C++ data structures and how to store data using linked lists, arrays, stacks, and queues. In later chapters, the book explains the basic algorithm design paradigms, such as the greedy approach and the divide-and-conquer approach, which are used to solve a large variety of computational problems. Finally, you will learn the advanced technique of dynamic programming to develop optimized implementations of several algorithms discussed in the book. By the end of this book, you will have learned how to implement standard data structures and algorithms in efficient and scalable C++ 14 code. What you will learn Build applications using hash tables, dictionaries, and sets Explore how modern hardware affects the actual run-time performance of programs Apply common algorithms such as heapsort and merge sort for string data types Use C++ template metaprogramming to write code libraries Implement a URL shortening service using a bloom filter Use appropriate modern C++ idioms such as `std::array` instead of C-style arrays Who this book is for This book is for developers or students who want to revisit basic data structures and algorithm design techniques. Although no mathematical background is required, basic knowledge of complexity classes and Big O notation along with a qualification in an algorithms course will help you get the most out of this book. Familiarity with C++ 14 standard is assumed.

Novel Algorithms and Techniques in Telecommunications and Networking May 07 2021 *Novel Algorithms and Techniques in Telecommunications and Networking* includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. *Novel Algorithms and Techniques in Telecommunications and Networking* includes selected papers from the conference proceedings of the International Conference on Telecommunications and Networking (TeNe 08) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).

Robust Channel Estimation for Ultra-wideband Communication Systems Using H [infinity] Algorithm
Sep 30 2020

A Novel Ultra-fast Parallel Algorithm for Image Compression Using Semi-orthogonal Spline Boundary Wavelets Jan 23 2020

An ultra-fast algorithm in tomography Feb 28 2023

Analog-and-Algorithm-Assisted Ultra-low Power Biosignal Acquisition Systems Dec 26 2022

This book discusses the design and implementation aspects of ultra-low power biosignal acquisition platforms that exploit analog-assisted and algorithmic approaches for power savings. The authors describe an approach referred to as “analog-and-algorithm-assisted” signal processing. This enables significant power consumption reductions by implementing low power biosignal acquisition systems, leveraging analog preprocessing and algorithmic approaches to reduce the data rate very early in the signal processing chain. They demonstrate savings for wearable sensor networks (WSN) and body area networks (BAN), in the sensors’ stimulation power consumption, as well in the power consumption of the digital signal processing and the radio link. Two specific implementations, an adaptive sampling electrocardiogram (ECG) acquisition and a compressive sampling (CS) photoplethysmogram (PPG) acquisition system, are demonstrated. First book to present the so called, “analog-and-algorithm-assisted” approaches for ultra-low power biosignal acquisition and processing platforms; Covers the recent trend of “beyond Nyquist rate” signal acquisition and processing in detail, including adaptive sampling and compressive sampling paradigms; Includes chapters on compressed domain feature extraction, as well as acquisition of photoplethysmogram, an emerging optical sensing modality, including compressive sampling based PPG readout with embedded feature extraction; Discusses emerging trends in sensor fusion for improving the signal integrity, as well as lowering the power consumption of biosignal acquisition systems.

Algorithm Engineering Jul 29 2020 This book constitutes the refereed proceedings of the Third International Workshop on Algorithm Engineering, WAE'99, held in London, UK in July 1999. The 24 revised full papers presented were carefully reviewed and selected from a total of 46 submissions. The papers present original research results in all aspects of algorithm engineering including implementation, experimental testing, fine-tuning of discrete algorithms, development of repositories of software, methodological issues such as standards for empirical research on algorithms and data structures, and issues in the process of converting user requirements into efficient algorithmic solutions and implementations.

The use of the genetic algorithm approach in the design of ultra-wideband antennas Apr 06 2021

A New Algorithm to Split and Merge Ultra-high Resolution 3D Images Aug 22 2022 Splitting and merging ultra-high resolution 3D images is a requirement for parallel or distributed processing operations. Naive algorithms to split and merge 3D blocks from ultra-high resolution images perform very poorly, due to the number of seeks required to reconstruct spatially-adjacent blocks from linear data organizations on disk. The current solution to deal with this problem is to use file formats that preserve spatial proximity on disk, but this comes with additional complexity. We introduce a new algorithm called Multiple reads/writes to split and merge ultra-high resolution 3D images efficiently from simple file formats. Multiple reads/writes only access contiguous bytes in the reconstructed image, which leads to substantial performance improvements compared to existing algorithms. We parallelize our algorithm using multi-threading, which further improves the performance for data stored on a Hadoop cluster. We also show that on-the-fly lossless compression with the lz4 algorithm reduces the split and merge time further.

Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting Nov 13 2021 This book is a printed edition of the Special Issue "Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting" that was published in *Energies*

Algorithms and Architectures for Parallel Processing Feb 22 2020 The three volume set LNCS 13155, 13156, and 13157 constitutes the refereed proceedings of the 21st International Conference on

Algorithms and Architectures for Parallel Processing, ICA3PP 2021, which was held online during December 3-5, 2021. The total of 145 full papers included in these proceedings were carefully reviewed and selected from 403 submissions. They cover the many dimensions of parallel algorithms and architectures including fundamental theoretical approaches, practical experimental projects, and commercial components and systems. The papers were organized in topical sections as follows: Part I, LNCS 13155: Deep learning models and applications; software systems and efficient algorithms; edge computing and edge intelligence; service dependability and security algorithms; data science; Part II, LNCS 13156: Software systems and efficient algorithms; parallel and distributed algorithms and applications; data science; edge computing and edge intelligence; blockchain systems; deep learning models and applications; IoT; Part III, LNCS 13157: Blockchain systems; data science; distributed and network-based computing; edge computing and edge intelligence; service dependability and security algorithms; software systems and efficient algorithms.

Database and Expert Systems Applications May 27 2020 The Database and Expert Systems Applications (DEXA) conferences bring together researchers and practitioners from all over the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems. DEXA covers a broad field, and all aspects of database, knowledge base and related technologies and their applications are represented. Once again there were a good number of submissions: 241 papers were submitted and of these the programme committee selected 103 to be presented. DEXA'99 took place in Florence and was the tenth conference in the series, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse and Vienna. The decade has seen many developments in the areas covered by DEXA, developments in which DEXA has played its part. I would like to express thanks to all the institutions which have actively supported and made possible this conference, namely: • University of Florence, Italy • IDG CNR, Italy • FAW – University of Linz, Austria • Austrian Computer Society • DEXA Association In addition, we must thank all the people who have contributed their time and effort to make the conference possible. Special thanks go to Maria Schweikert (Technical University of Vienna), M. Neubauer and G. Wagner (FAW, University of Linz). We must also thank all the members of the programme committee, whose careful reviews are important to the quality of the conference.

Optimization of Routing Algorithm for Interconnect Delay in Ultra Large Scale Interation Designs Aug 10 2021

WHO operational handbook on tuberculosis. Module 3 Dec 22 2019

Parallel Algorithms with Ultra-fast Expected Times Sep 23 2022

Handbook of Parallel Computing Feb 16 2022 The ability of parallel computing to process large data sets and handle time-consuming operations has resulted in unprecedented advances in biological and scientific computing, modeling, and simulations. Exploring these recent developments, the Handbook of Parallel Computing: Models, Algorithms, and Applications provides comprehensive coverage on a

Underwater Real-Time 3D Acoustical Imaging Oct 12 2021 This book presents the topic of underwater real-time 3-D acoustical imaging covering the theory, algorithms and system design. It summarizes recent advances in wideband and ultra-wideband underwater real-time 3-D acoustical imaging, which will be very useful for developing next-generation systems. Through simulation techniques, readers are able to quickly learn and develop practical underwater real-time 3-D acoustical imaging systems of their own.

Advanced Hybrid Information Processing Jun 20 2022 This two-volume set LNICST 301 -302 constitutes the post-conference proceedings of the Third EAI International Conference on Advanced Hybrid Information Processing, ADHIP 2019, held in Nanjing, China, in September 2019. The 101 papers presented were selected from 237 submissions and focus on hybrid big data processing. Since information processing has acted as an important research domain in science and technology today, it is now to develop deeper and wider use of hybrid information processing, especially information processing for big data. There are more remaining issues waiting for solving, such as classification and

systemization of big data, objective tracking and behavior understanding in big multimedia data, encoding and compression of big data.

Intelligent Algorithms in Ambient and Biomedical Computing Dec 02 2020 This book is the outcome of a series of discussions at the Philips Symposium on Intelligent Algorithms, held in Eindhoven in December 2004. It offers exciting and practical examples of the use of intelligent algorithms in ambient and biomedical computing. It contains topics such as bioscience computing, database design, machine consciousness, scheduling, video summarization, audio classification, semantic reasoning, machine learning, tracking and localization, secure computing, and communication.

Advances in Computer Graphics Dec 14 2021 This book constitutes the refereed proceedings of the 39th Computer Graphics International Conference on Advances in Computer Graphics, CGI 2022, held Virtually, during September 12–16, 2022. The 45 full papers included in this book were carefully reviewed and selected from 139 submissions. They were organized in topical sections as follows: image analysis & processing; graphs & networks; estimation & feature matching; 3d reconstruction; rendering & animation; detection & recognition; colors, paintings & layout; synthesis & generation; ar & user interfaces; medical imaging; segmentation; object detection; image attention & perception; and modeling & simulation.

Equalization of Ultra Wideband Wireless Systems Using Genetic Algorithm Mar 25 2020
Equalization of Ultra Wideband Wireless Systems Using Genetic Algorithm.

A Fast Preamble Detection Algorithm for Ultra Low Powered Receivers Mar 29 2023

Dissemination of Information in Optical Networks: Apr 25 2020 This book offers a broad overview of techniques used in the design of Wavelength Division Multiplexing (WDM) networks for efficient dissemination of information in computer networks. It starts with an overview of the hardware components then provides a thorough review of WDM. Each topic is covered rigorously with emphasis on detailed explanations of the approaches used. Numerous exercises are included.

Advanced Materials and Information Technology Processing Jul 09 2021 Volume is indexed by Thomson Reuters CPCI-S (WoS). The objective of this collection was to bring together researchers from academia and industry, as well as end-users, in order to share ideas, problems and solutions related to the multitudinous aspects of Advanced Materials and Information Technology Processing. The 387 peer-reviewed papers are presented under the chapter headings: 1 Machine Vision and Materials Science, 2 Information Technology and Materials Science, 3 Education Engineering. This makes the book a useful guide to those subjects.

Algorithmic and Analysis Techniques in Property Testing Jan 27 2023 Property testing algorithms are ultra"-efficient algorithms that decide whether a given object (e.g., a graph) has a certain property (e.g., bipartiteness), or is significantly different from any object that has the property. To this end property testing algorithms are given the ability to perform (local) queries to the input, though the decisions they need to make usually concern properties with a global nature. In the last two decades, property testing algorithms have been designed for many types of objects and properties, amongst them, graph properties, algebraic properties, geometric properties, and more. In this article we survey results in property testing, where our emphasis is on common analysis and algorithmic techniques. Among the techniques surveyed are the following: a) The self-correcting approach, which was mainly applied in the study of property testing of algebraic properties; b) The enforce and test approach, which was applied quite extensively in the analysis of algorithms for testing graph properties (in the dense-graphs model), as well as in other contexts; c) Szemerédi's Regularity Lemma, which plays a very important role in the analysis of algorithms for testing graph properties (in the dense-graphs model); d) The approach of Testing by implicit learning, which implies efficient testability of membership in many functions classes. e) Algorithmic techniques for testing properties of sparse graphs, which include local search and random walks.

Artificial Intelligence and Security Jun 08 2021 This two-volume set of LNCS 12736-12737 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security, ICAIS 2021, which was held in Dublin, Ireland, in July 2021. The conference was formerly

called “International Conference on Cloud Computing and Security” with the acronym ICCCS. The total of 93 full papers and 29 short papers presented in this two-volume proceedings was carefully reviewed and selected from 1013 submissions. Overall, a total of 224 full and 81 short papers were accepted for ICAIS 2021; the other accepted papers are presented in CCIS 1422-1424. The papers were organized in topical sections as follows: Part I: Artificial intelligence; and big data Part II: Big data; cloud computing and security; encryption and cybersecurity; information hiding; IoT security; and multimedia forensics

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