

*Learn*

# Encryption Techniques

*with BASIC and C++*

**Gilbert Held**



# Learn Encryption Techniques With Basic And C

**Yuan Zhang, Chunxiang Xu, Xuemin  
Sherman Shen**



## **Learn Encryption Techniques With Basic And C:**

**Learn Encryption Techniques with BASIC and C++** Gilbert Held,1999 A highly experienced computer book author and expert in the area of security and communications provides experienced programmers with a step by step examination of the development of encryption techniques from the Caesar Cipher through modern day public and private key encryption methods

**Practical Guide to SGML/XML Filters** Norman Earl Smith,1998 This guide presents techniques for processing Standard General Markup Language SGML and EXtensible Markup Language XML data and documents Seven programming languages are presented AWK BALISE C Perl OmniMark SGMLC and S Engine Features ten case studies of common SGML and XML filter programs

*Windows NT Server 4.0/2000* Gilbert Held,1999 Microsoft s Windows NT operating system has become increasingly important to the business government and academic markets However as with all operating systems the number of factors that can influence its performance is virtually unlimited Author Gilbert Held uses his experience in constructing configuring and operating a number of Web based Windows NT servers that receive millions of hits per week to explain to networking professionals how to test and troubleshoot computer problems This book focuses on three critical Microsoft Windows NT server areas the server itself the local area network and the wide area network The first section of the book provides information detailing the basics of the server how to examine its operation and a number of techniques to boost the productivity of operating an NT system Beginning with an overview of Ethernet and TCP IP chapters in the second section cover the operation of Microsoft s Network Monitor Triticom s EtherVision and Cinco Systems WebXRay In the third section the focus is placed upon the wide area network used to interconnect LANs Chapters in this section introduce the reader to basic transmission measurements channel and circuit parameters and other topics necessary to understand how to test and troubleshoot the WAN connection

**RSA CRYPTOSYSTEM KEY GENERATION, ENCRYPTION, DECRYPTION, AND DIGITAL SIGNATURES: LEARN BY EXAMPLES WITH PYTHON AND TKINTER** Vivian Siahaan,Rismon Hasiholan Sianipar,2024-08-28 Unlock the secrets of modern cryptography explored in this book a comprehensive guide that takes you from the fundamentals to advanced applications in encryption decryption and digital signatures Whether you re a beginner or an experienced developer this book offers hands on examples real world scenarios and detailed explanations that make complex concepts accessible and engaging Dive into the world of RSA as you learn to build secure systems and protect sensitive information with confidence Perfect for anyone looking to master the art of cryptography this book is your key to the future of digital security In chapter one we implemented RSA key generation within a Tkinter based GUI application This example was designed to be user friendly allowing users to generate RSA keys with a simple button click The process involved generating a private key and a corresponding public key which were then displayed within a text widget for easy copying and saving This example demonstrated the ease with which RSA keys can be generated programmatically making cryptography more accessible to users who may not be familiar with command line interfaces In

chapter two we embarked on a journey to create a sophisticated RSA encryption and decryption project We began by constructing a comprehensive Tkinter based GUI application that allows users to generate RSA key pairs create and sign transactions verify signatures and securely store transactions The initial focus was on setting up the graphical user interface with multiple tabs dedicated to different functionalities ensuring that the application was both user friendly and feature rich The core functionality of the application revolves around RSA key generation transaction creation and digital signing The RSA keys are generated using the cryptography library and users can generate private and public keys which are then displayed in the application This setup forms the foundation for securely signing transactions The transaction creation process involves entering details like the sender receiver amount and currency after which the transaction data is signed using the private key producing a digital signature This digital signature ensures the authenticity and integrity of the transaction preventing any tampering or forgery Once transactions are signed they can be stored in a secure manner The application allows users to save these transactions along with their digital signatures in a JSON file providing a permanent and verifiable record This storage mechanism is crucial for maintaining the integrity of financial transactions or any sensitive data as it ensures that each transaction is accompanied by a corresponding signature and public key enabling later verification The verification process is another key component of the project The application retrieves stored transactions and verifies the digital signature against the stored public key This process ensures that the transaction has not been altered since it was signed confirming its authenticity The verification feature is critical in real world applications where data integrity and authenticity are paramount such as in financial systems legal documents or secure communications Throughout the chapter the project was designed with a strong emphasis on real world applicability robustness and security The example provided not only serves as a practical guide for implementing RSA encryption and decryption with digital signatures but also highlights the importance of secure key management transaction integrity and data authenticity in modern cryptographic applications This project demonstrates the power of RSA in securing sensitive data and transactions in a user friendly and accessible way making it an essential tool for developers working with encryption in real world scenarios In chapter three we some projects focused on RSA digital signatures delving into the creation of synthetic datasets key generation data signing and verification processes The project s primary objective is to demonstrate how RSA digital signatures can be applied in a real world scenario by securely signing and verifying user data This example uses a synthetic dataset of user information including user IDs names emails and registration dates to illustrate the practical implementation of RSA cryptography The project begins with generating RSA keys using the `generate_rsa_keys` function This function creates a pair of keys a private key used for signing data and a public key for verifying the signature These keys are essential for the RSA cryptographic process where the private key ensures that the data remains authentic and unaltered while the public key is used to verify the authenticity of the signed data The keys are serialized into PEM format a widely used encoding standard that facilitates

the secure storage and transmission of cryptographic keys Next a synthetic user dataset is generated using the `create_synthetic_user_dataset` function This dataset comprises a specified number of user records each containing a unique user ID name email address and registration date The purpose of this synthetic data is to simulate a realistic environment where user information needs to be securely signed and verified By using a synthetic dataset we ensure that the example remains versatile and adaptable to various scenarios without relying on actual sensitive information Once the dataset is generated the `sign_data` function is employed to sign each user's data using the RSA private key This process involves creating a digital signature for each record ensuring that any alteration to the data after signing would invalidate the signature The digital signature serves as a cryptographic proof of the data's integrity and authenticity providing a robust mechanism to detect tampering or unauthorized modifications The signatures are then stored alongside the user data for subsequent verification Finally the project includes a mechanism for storing the signed data and public key in a JSON file and a function for retrieving and verifying the data The `store_user_data` function saves the user data corresponding signatures and the public key to a file allowing for secure storage and later retrieval The `retrieve_and_verify_user_data` function reads the stored data verifies each signature using the public key and confirms whether the data remains unaltered This final step completes the demonstration of how RSA digital signatures can be effectively used to secure user data making it a comprehensive example for those learning about cryptographic techniques in real world applications

### **ELLIPTIC CURVE CRYPTOGRAPHY (ECC) KEY GENERATION, ENCRYPTION, DECRYPTION, AND DIGITAL SIGNATURES: LEARN BY EXAMPLES WITH PYTHON AND TKINTER**

Vivian Siahaan, Rismon Hasiholan Sianipar, 2024-08-30 This book is dedicated to the development of a sophisticated and feature rich Tkinter GUI that leverages Elliptic Curve Cryptography ECC for various cryptographic operations including key generation encryption decryption signing and verifying data The primary goal is to create an interactive application that allows users to perform these operations on synthetic financial data demonstrating the practical use of ECC in securing sensitive information The GUI is meticulously designed with multiple tabs each corresponding to a different cryptographic function enabling users to navigate through key generation data encryption decryption and digital signature processes seamlessly The GUI starts with the key generation tab where users can generate ECC key pairs These key pairs are essential for the subsequent encryption and signing operations The GUI provides feedback on the generated keys displaying the public and private keys in hexadecimal format This feature is crucial for understanding the foundational role of ECC in modern cryptography where small key sizes provide strong security The key generation process also highlights the advantages of ECC over traditional RSA particularly in terms of efficiency and security per bit length In the encryption and decryption tab the GUI enables users to encrypt synthetic financial data using the previously generated ECC keys The encryption process is performed using AES in Cipher Feedback CFB mode with the AES key derived from the ECC private key through key derivation functions This setup showcases the hybrid approach where ECC is used for

key exchange or key derivation and AES is employed for the actual encryption of data The GUI displays the generated ciphertext in a hexadecimal format along with the Initialization Vector IV used in the encryption process providing a clear view of how the encrypted data is structured The signing and verifying tab demonstrates the use of ECC for digital signatures Here users can sign the synthetic financial data using the ECDSA Elliptic Curve Digital Signature Algorithm a widely recognized algorithm for ensuring data integrity and authenticity The GUI displays the generated digital signature in hexadecimal format offering insights into how ECC is applied in real world scenarios like secure messaging and digital certificates The verification process where the signature is checked against the original data using the ECC public key is also integrated into the GUI emphasizing the importance of digital signatures in verifying data authenticity The synthetic financial data used in these operations is generated within the GUI simulating transaction records that include fields such as transaction ID account number amount currency timestamp and transaction type This dataset is crucial for demonstrating the encryption and signing processes in a context that mirrors real world financial systems By encrypting and signing this data users can understand how ECC can be applied to protect sensitive information in financial transactions ensuring both confidentiality and integrity Finally the GUI s design incorporates user friendly elements such as scrolled text widgets for displaying long hexadecimal outputs entry fields for user inputs and clear labels for guiding the user through each cryptographic operation The application provides a comprehensive and interactive learning experience allowing users to explore the intricacies of ECC in a controlled environment By integrating ECC with AES for encryption and ECDSA for signing the GUI offers a practical demonstration of how modern cryptographic techniques can be combined to secure data making it an invaluable tool for anyone looking to understand or teach the principles of ECC based cryptography

Machine Learning, Image Processing, Network Security and Data Sciences Arup Bhattacharjee, Samir Kr.

Borgohain, Badal Soni, Gyanendra Verma, Xiao-Zhi Gao, 2020-06-24 This two volume set CCIS 1240 1241 constitutes the refereed proceedings of the Second International Conference on Machine Learning Image Processing Network Security and Data Sciences MIND 2020 held in Silchar India Due to the COVID 19 pandemic the conference has been postponed to July 2020 The 79 full papers and 4 short papers were thoroughly reviewed and selected from 219 submissions The papers are organized according to the following topical sections data science and big data image processing and computer vision machine learning and computational intelligence network and cyber security Cryptography Made Simple Nigel Smart, 2015-11-12 In this introductory textbook the author explains the key topics in cryptography He takes a modern approach where defining what is meant by secure is as important as creating something that achieves that goal and security definitions are central to the discussion throughout The author balances a largely non rigorous style many proofs are sketched only with appropriate formality and depth For example he uses the terminology of groups and finite fields so that the reader can understand both the latest academic research and real world documents such as application programming

interface descriptions and cryptographic standards The text employs colour to distinguish between public and private information and all chapters include summaries and suggestions for further reading This is a suitable textbook for advanced undergraduate and graduate students in computer science mathematics and engineering and for self study by professionals in information security While the appendix summarizes most of the basic algebra and notation required it is assumed that the reader has a basic knowledge of discrete mathematics probability and elementary calculus

**ELGAMAL CRYPTOSYSTEM  
KEY GENERATION, ENCRYPTION, DECRYPTION, AND DIGITAL SIGNATURES: LEARN BY EXAMPLES WITH  
PYTHON AND TKINTER** Vivian Siahaan, Rismon Hasiholan Sianipar, 2024-09-01 This book presents an interactive Python application designed to showcase the ElGamal encryption algorithm through a user friendly Tkinter graphical user interface GUI At its heart the application focuses on the three core aspects of ElGamal cryptography key generation encryption and decryption Users can generate ElGamal keys of varying sizes by specifying the number of bits and view these keys in multiple formats including raw integers hexadecimal and Base64 encoding This flexibility facilitates seamless integration of the keys into different systems and applications making the tool invaluable for both educational purposes and practical implementations Additionally the application allows users to encrypt and decrypt data using the generated ElGamal keys providing a comprehensive demonstration of how this cryptographic scheme secures information The GUI simplifies the process of managing and visualizing encrypted and decrypted data helping users understand the effectiveness of ElGamal encryption in maintaining data confidentiality By combining these functionalities within an intuitive interface the project not only illustrates key cryptographic concepts but also offers a hands on approach to learning and applying ElGamal encryption in real world scenarios In chapter one we developed a project which aims to create an intuitive graphical user interface GUI for generating and displaying ElGamal encryption keys using the Tkinter library Users can specify the number of bits for key generation and view the keys in multiple formats including raw integers hexadecimal and Base64 encoding This flexibility ensures compatibility with various systems and applications making it easier for users to integrate and verify cryptographic keys The application features a tabbed interface that organizes the key generation process Users can enter the desired key size in one tab and generate the keys with a button click The keys are then displayed in separate tabs according to their format This structured approach simplifies the comparison and verification of keys in different representations enhancing the usability and effectiveness of the key management process In chapter two the fifth project integrates ElGamal encryption and decryption techniques into a user friendly application for securing sensitive data such as credit card numbers and transaction details The application generates synthetic datasets to demonstrate these cryptographic methods in action allowing users to create keys encrypt data and decrypt it to verify integrity and confidentiality Built with Tkinter the application provides an interactive experience with an intuitive graphical interface Users can specify key generation parameters generate synthetic transaction data and view the original encrypted and decrypted data through a series of tabs This design facilitates easy

visualization of encryption and decryption effects making the application a practical tool for understanding and experimenting with cryptographic operations In chapter two the ninth project involves developing a Tkinter based GUI to demonstrate the ElGamal encryption algorithm using synthetic employee data The application provides an intuitive platform for generating encrypting and decrypting data while also visualizing results through interactive graphs Users can manage data with multiple tabs for setup original encrypted and decrypted views and utilize matplotlib for visualizing data distributions and trends By integrating data management encryption and visualization the project offers a comprehensive tool for understanding and applying the ElGamal algorithm in a secure and user friendly manner In chapter three the fourth project is designed to process Bitcoin transactions using the ElGamal encryption scheme It features a comprehensive approach that includes generating encrypting decrypting and analyzing Bitcoin transaction data The core of the project is the integration of ElGamal encryption to ensure the confidentiality and integrity of transaction data demonstrated through a user friendly graphical interface The application utilizes Tkinter for the interface and Matplotlib for data visualization allowing users to interact with and analyze synthetic Bitcoin datasets It supports functionalities like encryption decryption and digital signature verification all while presenting data through intuitive visual graphs This combination of encryption and visualization provides a robust tool for secure transaction processing and analysis In chapter three the sixth project is designed to demonstrate the integration of cryptographic techniques with data visualization and management through a graphical user interface GUI built using Tkinter At its core the project utilizes the ElGamal cryptosystem a public key cryptographic algorithm known for its security in encryption and digital signatures The GUI enables users to interact with various functionalities of the ElGamal system including encryption decryption and signature verification all while managing and visualizing a synthetic dataset The ElGamal class encapsulates the core cryptographic functionalities providing methods for encrypting and decrypting messages as well as signing and verifying signatures It uses secure random number generation and hashing to ensure robust cryptographic operations To facilitate testing and demonstration the project includes a synthetic dataset generation function `generate_gov_dataset` which creates a mock dataset simulating government documents with attributes like document IDs classification levels departments and content This dataset allows users to apply cryptographic techniques to structured data providing a realistic scenario for data security operations The `process_dataset` function applies encryption and digital signatures to this synthetic dataset transforming it into an encrypted format with corresponding signatures for content verification The GUI implemented in the `ElGamalGUI` class serves as the primary interface featuring tabs for viewing original and encrypted data decrypted data signatures and distribution graphs These visualizations help users understand the impact of encryption on data characteristics and evaluate the effectiveness of the cryptographic methods Overall this project provides a comprehensive tool for exploring cryptographic techniques in a user friendly environment offering valuable insights into practical applications of encryption and digital signatures in data security



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Data Security in Cloud Storage Yuan Zhang, Chunxiang Xu, Xuemin Sherman Shen, 2020-06-01 This book provides a comprehensive overview of data security in cloud storage ranging from basic paradigms and principles to typical security issues and practical security solutions It also illustrates how malicious attackers benefit from the compromised security of outsourced data in cloud storage and how attacks work in real situations together with the countermeasures used to ensure the security of outsourced data Furthermore the book introduces a number of emerging technologies that hold considerable potential for example blockchain trusted execution environment and indistinguishability obfuscation and outlines open issues and future research directions in cloud storage security The topics addressed are important for the academic community but are also crucial for industry since cloud storage has become a fundamental component in many applications The book offers a general introduction for interested readers with a basic modern cryptography background and a reference guide for researchers and practitioners in the fields of data security and cloud storage It will also help developers and engineers understand why some current systems are insecure and inefficient and move them to design and develop improved systems

*50 Algorithms Every Programmer Should Know* Imran Ahmad, 2023-09-29 Delve into the realm of generative AI and large language models LLMs while exploring modern deep learning techniques including LSTMs GRUs RNNs with new chapters included in this 50% new edition overhaul Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Familiarize yourself with advanced deep learning architectures Explore newer topics such as handling hidden bias in data and algorithm explainability Get to grips with different programming algorithms and choose the right data structures for their optimal implementation Book Description The ability to use algorithms to solve real world problems is a must have skill for any developer or programmer This book will help you not only to develop the skills to select and use an algorithm to tackle problems in the real world but also to understand how it works You ll start with an introduction to algorithms and

discover various algorithm design techniques before exploring how to implement different types of algorithms with the help of practical examples As you advance you ll learn about linear programming page ranking and graphs and will then work with machine learning algorithms to understand the math and logic behind them Case studies will show you how to apply these algorithms optimally before you focus on deep learning algorithms and learn about different types of deep learning models along with their practical use You will also learn about modern sequential models and their variants algorithms methodologies and architectures that are used to implement Large Language Models LLMs such as ChatGPT Finally you ll become well versed in techniques that enable parallel processing giving you the ability to use these algorithms for compute intensive tasks By the end of this programming book you ll have become adept at solving real world computational problems by using a wide range of algorithms What you will learn Design algorithms for solving complex problems Become familiar with neural networks and deep learning techniques Explore existing data structures and algorithms found in Python libraries Implement graph algorithms for fraud detection using network analysis Delve into state of the art algorithms for proficient Natural Language Processing illustrated with real world examples Create a recommendation engine that suggests relevant movies to subscribers Grasp the concepts of sequential machine learning models and their foundational role in the development of cutting edge LLMs Who this book is for This computer science book is for programmers or developers who want to understand the use of algorithms for problem solving and writing efficient code Whether you are a beginner looking to learn the most used algorithms concisely or an experienced programmer looking to explore cutting edge algorithms in data science machine learning and cryptography you ll find this book useful Python programming experience is a must knowledge of data science will be helpful but not necessary

*Federated Learning for Neural Disorders in Healthcare 6.0*  
Kishor Kumar Reddy C, Anindya Nag, 2025-05-14 This reference text offers a relevant and thorough examination of the overlap between neuroscience and federated learning It explores the complexities of utilizing federated learning algorithms for MRI data analysis demonstrating how to improve the accuracy and efficiency of diagnostic procedures The book covers topics such as the prediction and diagnosis of Alzheimer s disease using neural networks and ensuring data privacy and security in federated learning for neural disorders This book Provides a thorough examination of the transformative impact of federated learning on the diagnosis treatment and understanding of brain disorders Focuses on combining federated learning with magnetic resonance imaging MRI data which is a fundamental aspect of contemporary neuroimaging research Examines the use of federated learning as a promising approach for collaborative data analysis in healthcare with a focus on maintaining privacy and security Explores the cutting edge field of healthcare innovation by examining the interface of neuroscience and machine learning with a specific focus on the breakthrough technique of federated learning Offers a comprehensive understanding of how federated learning may transform patient care covering both theoretical ideas and practical examples It is primarily written for graduate students and academic researchers in electrical engineering

electronics and communication engineering computer science and engineering and biomedical engineering     Machine Learning Algorithms Meenu Khurana,Abhishek Thakur,Praveen Kantha,Chin-Shiuh Shieh,Rajesh K. Shukla,2024-11-11 This book constitutes the refereed proceedings of the First International Conference on Machine Learning Algorithms ICMLA 2024 held in Himachal Pradesh India during February 23 24 2024 The 23 full papers and 17 short papers included in this book were carefully reviewed and selected from 400 submissions They were organized in the following topical sections machine learning image processing deep learning     **Advanced Machine Learning Technologies and Applications** Aboul Ella Hassanien,Abdel-Badeeh M. Salem,Rabie Ramadan,Tai-hoon Kim,2012-12-03 This book constitutes the refereed proceedings of the First International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2012 held in Cairo Egypt in December 2012 The 58 full papers presented were carefully reviewed and selected from 99 initial submissions The papers are organized in topical sections on rough sets and applications machine learning in pattern recognition and image processing machine learning in multimedia computing bioinformatics and cheminformatics data classification and clustering cloud computing and recommender systems     Computational Methods for Deep Learning Wei Qi Yan,2020-12-04 Integrating concepts from deep learning machine learning and artificial neural networks this highly unique textbook presents content progressively from easy to more complex orienting its content about knowledge transfer from the viewpoint of machine intelligence It adopts the methodology from graphical theory mathematical models and algorithmic implementation as well as covers datasets preparation programming results analysis and evaluations Beginning with a grounding about artificial neural networks with neurons and the activation functions the work then explains the mechanism of deep learning using advanced mathematics In particular it emphasizes how to use TensorFlow and the latest MATLAB deep learning toolboxes for implementing deep learning algorithms As a prerequisite readers should have a solid understanding especially of mathematical analysis linear algebra numerical analysis optimizations differential geometry manifold and information theory as well as basic algebra functional analysis and graphical models This computational knowledge will assist in comprehending the subject matter not only of this text reference but also in relevant deep learning journal articles and conference papers This textbook guide is aimed at Computer Science research students and engineers as well as scientists interested in deep learning for theoretic research and analysis More generally this book is also helpful for those researchers who are interested in machine intelligence pattern analysis natural language processing and machine vision Dr Wei Qi Yan is an Associate Professor in the Department of Computer Science at Auckland University of Technology New Zealand His other publications include the Springer title Visual Cryptography for Image Processing and Security

**Smart Healthcare and Machine Learning** Mousmi Ajay Chaurasia,Prasanalakshmi Balaji,Alejandro C. Frery,2024-07-12 The book explores the convergence of healthcare and cutting edge technology making it a captivating subject for readers interested in future research Smart healthcare with machine learning techniques offers a transformative

paradigm that utilizes the power of new technology data analytics and interconnected devices to enhance the quality efficiency and accessibility of healthcare services This involves leveraging Internet of Things IoT devices wearable technology and machine learning algorithms to monitor patient health predict medical conditions and offer personalized treatment recommendations This innovative combination not only enhances diagnostics and treatment but also addresses the research challenges of healthcare access and delivery in an increasingly connected world By exploring the synergy between smart healthcare and machine learning the book helps to understand how these technologies can collaborate to revolutionize patient care and healthcare delivery This book is an outcome with applications of future technologies to overcome the toughest humanitarian challenges from an engineering approach

**Crypto and AI** Behrouz Zolfaghari,Hamid

Nemati,Naoto Yanai,Khodakhast Bibak,2023-11-14 This book studies the intersection between cryptography and AI highlighting the significant cross impact and potential between the two technologies The authors first study the individual ecosystems of cryptography and AI to show the omnipresence of each technology in the ecosystem of the other one Next they show how these technologies have come together in collaborative or adversarial ways In the next section the authors highlight the coevolution being formed between cryptography and AI Throughout the book the authors use evidence from state of the art research to look ahead at the future of the crypto AI dichotomy The authors explain how they anticipate that quantum computing will join the dichotomy in near future augmenting it to a trichotomy They verify this through two case studies highlighting another scenario wherein crypto AI and quantum converge The authors study current trends in chaotic image encryption as well as information theoretic cryptography and show how these trends lean towards quantum inspired artificial intelligence QiAI After concluding the discussions the authors suggest future research for interested researchers

Advances in Deep Learning, Volume 2 M. Arif Wani,Bisma Sultan,Sarwat Ali,Mukhtar Ahmad Sofi,2025-05-02 This book describes novel ways of using deep learning to solve real world problems It covers advanced deep learning topics like neural architecture search ensemble deep learning transfer learning techniques lightweight architectures hybrid deep learning approaches and generative adversarial networks The book discusses the use of these advanced topics in selected applications like image classification object detection image steganography protein secondary structure prediction and gene expression data classification Various challenges and future research directions falling under the scope of these topics are discussed

**Writing and Publishing with Your PC** Russell Stultz,1998 This work covers a broad range of subjects in the fields of writing and publishing including software selection operation and feature comparisons techniques for publishing a wide selection of document types and detailed coverage of popular software tools for creating professional documents

**Proceedings of Fifth International Conference on Computer and Communication Technologies** B. Rama Devi,Kishore Kumar,M. Raju,K. Srujan Raju,Mathini Sellathurai,2024-02-29 This book is a compilation of high quality scientific papers presented at the 5th International Conference on Computer Communication Technologies IC3T 2023 The

book covers cutting edge technologies and applications of soft computing artificial intelligence and communication In addition a variety of further topics are discussed which include data mining machine intelligence fuzzy computing sensor networks signal and image processing human computer interaction and web intelligence

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