

Wireless Networks and Mobile Communications Series

CYBER PHYSICAL SYSTEMS

Architectures, Protocols and Applications

Edited by Chi (Harold) Liu and Yan Zhang



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Online Cyber Physical Systems Architectures Communications

**Maanak Gupta, Smriti Bhatt, Asma
Hassan Alshehri, Ravi Sandhu**



Online Cyber Physical Systems Architectures Communications:

Reliable Communications within Cyber-Physical Systems Using the Internet (RC4CPS) Mohammad Elattar, 2019-08-07
This thesis describes the research done regarding communication reliability when using the Internet to realize the communications for cyber physical systems CPSs. In a nutshell, the book first presents the obtained results from real world measurements describing the reliability of today's Internet in terms of the availability and diversity of a wide set of end-to-end paths in the Internet. After that, the book describes a new approach along with its realization as a transport protocol to improve reliability and enable the utilization of Internet within future CPSs. In the first chapters of the book, the need for reliable communication to realize CPSs and the challenges of using the Internet as a communication network for such systems are described. The existing literature is analyzed after that, and the identified research gap is highlighted. The proposed approach along with conducted measurements to evaluate it are described in the remaining chapters of the book.

Cyber-Physical Systems: Architecture, Security and Application Song Guo, Deze Zeng, 2018-09-20
This book provides an overview of recent innovations and achievements in the broad areas of cyber physical systems CPS, including architecture, networking, systems, applications, security, and privacy. The book discusses various new CPS technologies from diverse aspects to enable a higher level of innovation towards intelligent life. The book provides insight to the future integration, coordination, and interaction between the physical world, the information world, and human beings. The book features contributions from renowned researchers and engineers who discuss key issues from various perspectives, presenting opinions and recent CPS-related achievements. Investigates how to advance the development of cyber physical systems. Provides a joint consideration of other newly emerged technologies and concepts in relation to CPS, like cloud computing, big data, fog computing, and crowd sourcing. Includes topics related to CPS, such as architecture, system, networking, application, algorithm, security, and privacy.

Cyber-Physical System Design from an Architecture Analysis Viewpoint Shin Nakajima, Jean-Pierre Talpin, Masumi Toyoshima, Huafeng Yu, 2017-05-10
Providing a wide variety of technologies for ensuring the safety and dependability of cyber physical systems CPS, this book offers a comprehensive introduction to the architecture-centric modeling, analysis, and verification of CPS. In particular, it focuses on model-driven engineering methods, including architecture description languages, virtual prototyping, and formal analysis methods. CPS are based on a new design paradigm intended to enable emerging software-intensive systems. Embedded computers and networks monitor and control the physical processes, usually with the help of feedback loops, where physical processes affect computations and vice versa. The principal challenges in system design lie in this constant interaction of software, hardware, and physics. Developing reliable CPS has become a critical issue for the industry and society because many applications, such as transportation, power distribution, medical equipment, and telemedicine, are dependent on CPS. Safety and security requirements must be ensured by means of powerful validation tools. Satisfying such requirements, including quality of service, implies having formally proven the required properties of the

system before it is deployed The book is concerned with internationally standardized modeling languages such as AADL SysML and MARTE As the effectiveness of the technologies is demonstrated with industrial sample cases from the automotive and aerospace sectors links between the methods presented and industrial problems are clearly understandable Each chapter is self contained addressing specific scientific or engineering problems and identifying further issues In closing it includes perspectives on future directions in CPS design from an architecture analysis viewpoint **Internet of Things**

and Cyber Physical Systems Keshav Kaushik,Susheela Dahiya,Akashdeep Bhardwaj,Yassine Maleh,2022-12-30 The quantity diversity and sophistication of Internet of Things IoT items are rapidly increasing posing significant issues but also innovative solutions for forensic science Such systems are becoming increasingly common in public locations businesses universities residences and other shared offices producing enormous amounts of data at rapid speeds in a variety of forms IoT devices can be used as suspects digital witnesses or instruments of crime and cyberattacks posing new investigation problems forensic issues security threats legal concerns privacy concerns and ethical dilemmas A cyberattack on IoT devices might target the device itself or associated systems particularly vital infrastructure This book discusses the advancements in IoT and Cyber Physical Systems CPS forensics The first objective is to learn and understand the fundamentals of IoT forensics This objective will answer the question of why and how IoT has evolved as one of the most promising and widely accepted technologies across the globe and has many widely accepted applications The second objective is to learn how to use CPS to address many computational problems CPS forensics is a promising domain and there are various advancements in this field This book is structured so that the topics of discussion are relevant to each reader s particular areas of interest The book s goal is to help each reader to see the relevance of IoT and CPS forensics to his or her career or interests This book not only presents numerous case studies from a global perspective but it also compiles a large amount of literature and research from a database As a result this book effectively demonstrates the concerns difficulties and trends surrounding the topic while also encouraging readers to think globally The main goal of this project is to encourage both researchers and practitioners to share and exchange their experiences and recent studies between academia and industry *Access Control*

Models and Architectures For IoT and Cyber Physical Systems Maanak Gupta,Smriti Bhatt,Asma Hassan Alshehri,Ravi Sandhu,2022-02-04 This book presents cybersecurity aspects of ubiquitous and growing IoT and Cyber Physical Systems It also introduces a range of conceptual theoretical and foundational access control solutions This was developed by the authors to provide an overall broader perspective and grounded approach to solve access control problems in IoT and CPS The authors discuss different architectures frameworks access control models implementation scenarios and a broad set of use cases in different IoT and CPS domains This provides readers an intuitive and easy to read set of chapters The authors also discuss IoT and CPS access control solutions provided by key industry players including Amazon Web Services AWS and Google Cloud Platform GCP It provides extensions of the authors proposed fine grained solutions with these widely used

cloud and edge supported platforms This book is designed to serve the computer science and the cybersecurity community including researchers academicians and students Practitioners who have a wider interest in IoT CPS privacy and security aspects will also find this book useful Thanks to the holistic planning and thoughtful organization of this book the readers are expected to gain in depth knowledge of the state of the art access control architectures and security models for resilient IoT and CPS

Transportation Cyber-Physical Systems Lipika Deka,Mashrur Chowdhury,2018-07-30 Transportation Cyber Physical Systems provides current and future researchers developers and practitioners with the latest thinking on the emerging interdisciplinary field of Transportation Cyber Physical Systems TCPS The book focuses on enhancing efficiency reducing environmental stress and meeting societal demands across the continually growing air water and land transportation needs of both people and goods Users will find a valuable resource that helps accelerate the research and development of transportation and mobility CPS driven innovation for the security reliability and stability of society at large The book integrates ideas from Transport and CPS experts and visionaries consolidating the latest thinking on the topic As cars traffic lights and the built environment are becoming connected and augmented with embedded intelligence it is important to understand how smart ecosystems that encompass hardware software and physical components can help sense the changing state of the real world Bridges the gap between the transportation CPS and civil engineering communities Includes numerous examples of practical applications that show how diverse technologies and topics are integrated in practice Examines timely state of the art topics such as big data analytics privacy cybersecurity and smart cities Shows how TCPS can be developed and deployed along with its associated challenges Includes pedagogical aids such as Illustrations of application scenarios architecture details tables describing available methods and tools chapter objectives and a glossary Contains international contributions from academia government and industry

Cyber-Physical Systems and Control Dmitry G. Arseniev,Ludger Overmeyer,Heikki Kälviäinen,Branko Katalinić,2019-11-29 This book presents the proceedings of the International Conference on Cyber Physical Systems and Control CPS C 2019 held in Peter the Great St Petersburg Polytechnic University which is celebrating its 120th anniversary in 2019 The CPS C 2019 was dedicated to the 35th anniversary of the partnership between Peter the Great St Petersburg Polytechnic University and Leibniz University of Hannover Cyber physical systems CPSs are a new generation of control systems and techniques that help promote prospective interdisciplinary research A wide range of theories and methodologies are currently being investigated and developed in this area to tackle various complex and challenging problems Accordingly CPSs represent a scientific and engineering discipline that is set to make an impact on future systems of industrial and social scale that are characterized by the deep integration of real time processing sensing and actuation into logical and physical heterogeneous domains The CPS C 2019 brought together researchers and practitioners from all over the world and to discuss cross cutting fundamental scientific and engineering principles that underline the integration of cyber and physical elements across all application

fields The participants represented research institutions and universities from Austria Belgium Bulgaria China Finland Germany the Netherlands Russia Syria Ukraine the USA and Vietnam These proceedings include 75 papers arranged into five sections namely keynote papers fundamentals applications technologies and education and social aspects

Cyber-Physical Systems Rajanikanth Aluvalu, Samarjeet Borah, Lalit Garg, 2025-11-18 Cyber physical systems CPS are intelligent robotics systems that cleverly merge computing algorithms with physical operations enabling state of the art response systems by integrating the virtual and physical dimensions and enhancing efficiency automation and interconnectedness in many sectors With examples of real world implementation this new book explores many facets of CPS in robotics and engineering and presents a host of cutting edge technologies and approaches in industrial applications as well as in other sectors such transportation gaming medicine and healthcare civil engineering and infrastructure communications and internet security library science election integrity music etc providing inspiration for new ideas for CPS applications

Cyber Physical Systems Chi (Harold) Liu, Yan Zhang, 2015-12-02 Cyber Physical Systems Architectures Protocols and Applications helps you understand the basic principles and key supporting standards of CPS It analyzes different CPS applications from the bottom up extracting the common characters that form a vertical structure It presents mobile sensing platforms and their applications toward interrelated p

Emerging Trends for Securing Cyber Physical Systems and the Internet of Things Bharat Bhushan, Sudhir Kumar Sharma, Parma Nand, Achyut Shankar, Ahmed J. Obaid, 2024-05-09 In the past decades cyber physical systems CPSs have been widely applied to fields such as smart grids environment monitoring aerospace smart transportation and industrial automation Great strides have been made in CPSs to improve the computing mechanism communication and quality of service by applying optimization algorithms Currently these efforts are integrated with the applications of machine learning ML and artificial intelligence AI To maintain system reliability and stability CPSs such as smart grids face numerous challenges including large scale Internet of Things IoT device adaptation ever increasing demands of electrical energy and the rise of a wide range of security threats These challenges bring forth the need to find sustainable and advanced solutions to guarantee reliable and secure operations in these systems The goal of this book is to foster transformative multidisciplinary and novel approaches that ensure CPS security by taking into consideration the unique security challenges present in the environment This book attracts contributions in all aspects pertaining to this multidisciplinary paradigm which includes the development and implementation of Smart CPS Supervisory Control and Data Acquisition SCADA systems CPS for Industry 4 0 CPS architecture for IoT applications and CPS forensics This book Discusses concepts including wireless sensor networks WSNs CPSs and the IoT in a comprehensive manner Covers routing protocols in sensor networks attacks and vulnerabilities in WSNs the Internet of Cyber Physical Things and CPSs for industrial applications Highlights technological advances practical solutions emerging trends and prototypes related to privacy in CPSs and the IoT Presents a pathway and architecture for proactive security

schemes in CPSs to counter vulnerabilities including phishing attacks malware injection internal stealing of data and hacking Discusses the most recent research and development on the enabling technologies for IoT based CPSs Owing to the scope and diversity of topics covered the book will be of interest not only to researchers and theorists but also to professionals material developers technology specialists and methodologists dealing with the multifarious aspects of data privacy and security enhancement in CPSs The book will provide these professionals an overview of CPS security and privacy design as well as enlighten them to promising solutions to research problems such as cyberattacks in CPS risk identification and management in CPS ML based trust computational models for CPSs nature inspired algorithms for CPSs and distributed consensus algorithms for event detection in CPSs The secondary target audience of this book includes legal practitioners hackers cyber law policymakers cyber forensic analysts and global security consortiums who may use it to further their research exposure to pertinent topics in cybersecurity

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