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To Inform Or to Control? Practical Data Communications for Instrumentation and Control The World Wide Military Command and Control System evolution and effectiveness The Struggle for Control of Global Communication Communication and Control Communication and Control Estimation Theory with Applications to Communications and Control Advances in Communication Control Networks Control Through Communication Advances in Communications-Based Train Control Systems Communications and Control for Electric Power Systems Communication Control in Computer Networks 2017 International Conference on Communication, Control, Computing and Electronics Engineering (ICCCCEE) Future Communication, Computing, Control and Management 2016 6th International Conference on Computers Communications and Control (ICCCC). Peak Power Control in Multicarrier Communications Broadband Communications, Computing, and Control for Ubiquitous Intelligence Data Communications for Instrumentation and Control Planning and Architectural Design of Modern Command Control Communications and Information Systems Congestion Control in Data Transmission Networks Advances in Communication Control Networks Command, Control, and Communications Systems Engineering The Role and Control of International Communications and Information The Nerves of Government Negotiating Control □□□□□□□□□(□□□□□) New Directions in Signal Processing in Communication and Control Communication and Control in Electric Power Systems Toward a Science of Command, Control, and Communications Technologies of Control Proceeding of International Conference on Intelligent Communication, Control and Devices Transparency, Power, and Control Spin Control The Micropolitics of Knowledge 2016 2nd International Conference on Communication Control and Intelligent Systems (CCIS) Cybernetics Or Control and Communication in the Animal and the Machine STAMP 2 Communications and Control Projects Cybernetics Micropolitics of Knowledge Command, Control, & Communications (C3)

To Inform Or to Control?

1989

overview of data communications basic data communication principles physical serial communication standards error detection cabling basics electrical noise and interference modems and multiplexers introduction to protocols open systems interconnection model industrial protocols hart protocol open industrial fieldbus and devicenet systems local area networks appendix a numbering systems appendix b cyclic redundancy check crc program listing appendix c serial link design glossary

Practical Data Communications for Instrumentation and Control

2003-07-28

perhaps the best single way to summarize it is to view the book as a bureaucratic or organizational history what the author does is to take three distinct historical themes organization technology and ideology and examine how each contributed to the development of wwmccs and its ability and frequent inability to satisfy the demands of national leadership whereas earlier works were primarily descriptive cataloguing the command and control assets then in place or under development the book offers more analysis by focusing on the issue of how and why wwmccs developed the way it did while at first glance less provocative this approach is potentially more useful for defense decision makers dealing with complex human and technological systems in the post cold war era it also makes for a better story and i trust a more interesting read by necessity this work is selective the elements of wwmccs are so numerous and the parameters of the system potentially so expansive that a full treatment is impossible within the compass of a single volume indeed a full treatment of even a single wwmccs asset or subsystem the defense satellite communications system extremely low frequency communications the national military command system to name but a few could itself constitute a substantial work in its broadest conceptualization wwmccs is the world and my approach has been to deal with the head of the octopus rather than its myriad tentacles

The World Wide Military Command and Control System evolution and effectiveness

2000

tracing the development of communication markets and the regulation of international communications from the 1840s through world war i jill hills examines the political technological and economic forces at work during the formative century of global communication the struggle for control of global communication analyzes power relations within the arena of global communications from the inception of the telegraph through the successive technologies of submarine telegraph cables ship to shore wireless broadcast radio shortwave wireless the telephone and movies with sound global communication began to overtake transportation as an economic political and social force after the inception of the telegraph which shifted communications from national to international from that point on says hills information was a commodity and ownership of the communications infrastructure became valuable as the means of distributing information the struggle for control of that infrastructure occurred in part because the growing economic power of the united states was hindered by british control of communications hills outlines the technological advancements and regulations that allowed the united states to challenge british hegemony and enter the global communications market she demonstrates that control of global communication was part of a complex web of relations between and within the government and corporations of britain and the united states detailing the interplay between u s federal regulation and economic power hills shows how communication technologies have been shaped by these forces and fosters an understanding of contemporary systems of power in global communications

The Struggle for Control of Global Communication

2010-10-01

communication and control tools systems and new dimensions advocates a systems view of human communication in a time of intelligent learning machines this edited collection sheds new light on things as mundane yet still profoundly consequential and seemingly low tech as push buttons pagers and telemarketing systems contributors also investigate aspects of remote control related to education organizational design artificial intelligence cyberwarfare drones and even binge watching on netflix in line with a systems view the collection takes up a media ecological view this work will be of interest to students scholars and researchers in communication new media and technology

Communication and Control

2015-07-01

the area of communication and computer networks has become a very active field of research by the control systems community in the last years tools from convex optimization and control theory are playing increasing roles in efficient network utilization fair resource allocation and communication delay accommodation and the field of networked control systems is fast becoming a mainstay of control systems research and applications this carefully edited book brings together solicited contributions from experts in the various areas of communication control networks referring to both networks under control control in networks as well as networked control systems control over networks the aim of this book is to reverse the trend of fragmentation and specialization in communication control networks connecting various interdisciplinary research fields including control communication applied mathematics and computer science

Communication and Control

1991-01

with rapid population explosion improving rail transit speed and capacity is strongly desirable around the world

communication based train control cbtc is an automated train control system using high capacity bidirectional train ground communications to ensure the safe operation of rail vehicles this book presents the latest advances in cbtc r

Estimation Theory with Applications to Communications and Control

1979

the first section of the report describes the abnet system a hardware and software communications system designed for distribution automation it can also find application in substation monitoring and control the topology of the power system fixes the topology of the communications network which can therefore be expected to include a larger number of branch points tap points and interconnections these features make this communications network unlike any other the network operating software has to solve the problem of communicating to all the nodes of a very complex network in as reliable a way as possible even if the network is damaged and it has to do so with minimum transmission delays and at minimum cost the design of the operating protocols is described within the framework of the seven layer open system interconnection hierarchy of the international standards organization section 2 of the report describes the development and testing of a high voltage sensor based on an electro optic polymer the theory of operation is reviewed bulk fabrication of the polymer is discussed as well as results of testing of the electro optic coefficient of the material fabrication of a complete prototype sensor suitable for use in the range 1 20 kv is described the electro optic polymer is shown to be an important material for fiber optic sensing applications appendix a is theoretical support for this work the third section of the report presents the application of an artificial neural network kohonen s self organizing feature map for the classification of power system states this classifier maps vectors of an n dimensional space to a 2 dimensional neural net in a nonlinear way preserving the topological order of the input vectors these mappings are studied using a nonlinear power system model kirkham h and goettsche a and niebur d and friend h and johnston a jet propulsion laboratory automatic control communication networks electric power supplies

Advances in Communication Control Networks

2004-09-22

communications electronics and computer science and applications

Control Through Communication

1993

this volume contains revised and extended research articles written by prominent researchers participating in the icf4c 2011 conference 2011 international conference on future communication computing control and management icf4c 2011 has been held on december 16 17 2011 phuket thailand topics covered include intelligent computing network management wireless networks telecommunication power engineering control engineering signal and image processing machine learning control systems and applications the book will offer the states of arts of tremendous advances in computing communication control and management and also serve as an excellent reference work for researchers and graduate students working on computing communication control and management research

Advances in Communications-Based Train Control Systems

2015-11-05

this book reports on the latest advances from both industry and academia on ubiquitous intelligence and how it is enabled by 5g 6g communication technologies the authors cover network protocol and architecture design machine learning and artificial intelligence coordinated control and digital twins technologies and security and privacy enhancement for ubiquitous intelligence the authors include recent studies of performance analysis and enhancement of the internet of things cyber physical systems edge computing and cyber twins all of which provide importance guidance and theoretical tools for developing future ubiquitous intelligence the content of the book will be of interest to students educators and researchers in academia industry and research laboratories provides comprehensive coverage of enabling communications computing and control technologies for ubiquitous intelligence presents a novel paradigm of ubiquitous intelligence powered by broadband communications computing and control includes a review of 5g 6g communication technologies network protocol and architecture design and ubiquitous computing

Communications and Control for Electric Power Systems

2018-07-17

the subject of this book is command control communication and information 3 c i which is the management infrastructure for any large or complex dynamic resource systems here command means the determination of what to do and control means the ongoing managementofthe execution ofa command 3 decision making is the essence of c i which is accomplished through a phased implementation of a set of facilities communications personnel equipment and procedures for monitoring forecasting planning directing allocating resources and generating options to achieve specific and general objectives 3 the c i system that is in question here is for a strategic military command including its subordinate commands although the design methodology that will be expounded in the book is for a military system it can to a large extent apply also to tactical military as well as to civilian management information systems mis 3 a c i system is a decision making network that reflects a hierarchical organization 3 of c i nodes each node is responsible for the management of some portion ofthe available resources where the higher level nodes are responsible for a 3 correspondingly greater portion of the resources within a c i system both command and control decision making occur at every level of the hierarchy command decisions at one level determine how to satisfy the management decisions at a higher level

Communication Control in Computer Networks

1980

congestion control in data transmission networks details the modeling and control of data traffic in communication networks it shows how various networking phenomena can be represented in a consistent mathematical framework suitable for rigorous formal analysis the monograph differentiates between fluid flow continuous time traffic models discrete time processes with constant sampling rates and sampled data systems with variable discretization periods the authors address a number of difficult real life problems such as optimal control of flows with disparate time varying delay the existence of source and channel nonlinearities the balancing of quality of service and fairness requirements and the incorporation of variable rate allocation policies appropriate control mechanisms which can handle congestion and guarantee high throughput in various traffic scenarios with different networking phenomena being considered are proposed systematic design procedures using sound control theoretic foundations are adopted since robustness issues are of major concern in providing efficient data flow regulation in today s networks sliding mode control is selected as the principal technique to be applied in creating the control solutions the controller derivation is given extensive analytical treatment and is supported with numerous realistic simulations a comparison with existing solutions is also provided the concepts applied are discussed in a number of illustrative examples and supported by many figures tables and graphs walking the reader through the ideas and introducing their relevance in real networks academic researchers and graduate students working in computer networks and telecommunications and in control especially time delay systems and discrete time optimal and sliding mode control will find this text a valuable assistance in ensuring smooth data flow within communications networks

2017 International Conference on Communication, Control, Computing and Electronics Engineering (ICCCCEE)

2017-01-16

the area of communication and computer networks has become a very active field of research by the control systems community in the last years tools from convex optimization and control theory are playing increasing roles in efficient network utilization fair resource allocation and communication delay accommodation and the field of networked control systems is fast becoming a mainstay of control systems research and applications this carefully edited book brings together solicited contributions from experts in the various areas of communication control networks referring to both networks under control control in networks as well as networked control systems control over networks the aim of this book is to reverse the trend of fragmentation and specialization in communication control networks connecting various interdisciplinary research fields including control communication applied mathematics and computer science

Future Communication, Computing, Control and Management

2012-02-01

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2016 6th International Conference on Computers Communications and Control (ICCCC).

2016

the first extensive reference on these important techniques the restructuring of the electric utility industry has created the need for a mechanism that can effectively coordinate the various entities in a power market enabling them to communicate efficiently and perform at an optimal level communication and control in electric power systems the first resource to address its subject in an extended format introduces parallel and distributed processing techniques as a compelling solution to this critical problem drawing on their years of experience in the industry mohammad shahidehpour and yaoyu wang deliver comprehensive coverage of parallel and distributed processing techniques with a focus on power system optimization control and communication the authors begin with theoretical background and an overview of the increasingly deregulated power market then move quickly into the practical applications and implementations of these pivotal techniques chapters include integrated control center information parallel and distributed computation of power systems common information model and middleware for integration online distributed security assessment and control integration control and operation of distributed generation agent theory and power systems management e commerce of electricity a ready resource for both students and practitioners communication and control in electric power systems proves an ideal textbook for first year graduate students in power engineering with an interest in computer communication systems and control center design designers operators planners and researchers will likewise appreciate its unique contribution to the professional literature

Peak Power Control in Multicarrier Communications

2007

to properly engineer systems to provide unity of effort in command and control systems it is necessary to have a science of command control and communications c3 this book the results of the joint directors of laboratories basic research group program is a collection of papers toward the goal of a science of c3 the topics include the logic of data fusion command and control decision systems modeling and behavior experimental findings models of command and control and models of c3 architectures this variety provides the reader with state of the art perspective on concepts models and experiments to understand command control and communications the results of a focused dod basic research program in command control and communications will be of particular interest to professionals and students working in the c3 field

Broadband Communications, Computing, and Control for Ubiquitous Intelligence

2022-08-09

the book presents high quality research papers presented at the first international conference iciccd 2016 organised by the department of electronics instrumentation and control engineering of university of petroleum and energy studies dehradun on 2nd and 3rd april 2016 the book is broadly divided into three sections intelligent communication intelligent control and intelligent devices the areas covered under these sections are wireless communication and radio technologies optical communication communication hardware evolution machine to machine communication networks routing techniques network analytics network applications and services satellite and space communications technologies for e communication wireless ad hoc and sensor networks communications and information security signal processing for communications communication software microwave informatics robotics and automation optimization techniques and algorithms intelligent transport mechatronics system guidance and navigation algorithms linear non linear control home automation sensors smart cities control systems high performance computing cognition control adaptive control distributed control prediction models hybrid control system control applications power system manufacturing agriculture cyber physical system network control system genetic control based wearable devices nano devices mems bio inspired computing embedded and real time software vlsi and embedded systems fpga digital system and logic design image and video processing machine vision medical imaging and reconfigurable computing systems

Data Communications for Instrumentation and Control

2000

this book brings together academics and practitioners from a range of disciplines from more than twenty countries to reflect on the growing importance of transparency power and control in our international community and how these concerns and ideas have been examined used and interpreted in a range of national and international contexts contributors explore these issues from a range of overlapping concerns and perspectives such as semiotic sociolinguistic psychological philosophical and visual in diverse socio political administrative institutional as well as legal contexts the collection examines the ways in which actors in our society legislators politicians activists and artists have provoked public discourses to confront these issues

Planning and Architectural Design of Modern Command Control Communications and Information Systems

2012-12-06

examination and history of the office of communication and how it influences the public side of the presidency

Congestion Control in Data Transmission Networks

2012-08-01

after mapping out a theoretical framework in which the structure of workgroups is defined in terms of authority relationships in organizations lazega employs case studies of two rather different units of public administration in geneva switzerland to illustrate the implications of his theory book jacket

Advances in Communication Control Networks

2009-09-02

the international conference on communication control and intelligent system ccis 2016 is to be organized to address various issues to prosper the creation of intelligent solutions in future the aim is to bring together worldwide leading researchers developers practitioners and educators interested in advancing the state of the art in computational control and intelligent system for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities it is expected that researchers will bring new prospect for collaboration across disciplines and gain idea facilitating novel breakthrough the theme for this conference is innovating and inspiring the researchers to adopt the outcome for implementation

Command, Control, and Communications Systems Engineering

1989

it appers impossible for anyone seriously interested in our civilization to ignore this book it is a must book for those in every branch of science in addition economists politicians statesmen and businessmen cannot afford to overlook cybernetics and its tremendous even terrifying implications

The Role and Control of International Communications and Information

1977

the perfect resource for hobbyists who ve been searching for an opportunity to incorporate the versatile stamp ii controller into their projects step by step guidance needed to build program and customize 20 great communications specific projects using the basic stamp microprocessor teaches both building and programming with an emphasis on customization projects range from simple serial communications to complex 12 channel web based alarm reporting cd rom includes all the software photos and schematics needed to build the projects

The Nerves of Government

1966

Negotiating Control

2018

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2011-06

New Directions in Signal Processing in Communication and Control

1975

Communication and Control in Electric Power Systems

2004-07-22

Toward a Science of Command, Control, and Communications

1993

Technologies of Control

1988

Proceeding of International Conference on Intelligent Communication, Control and Devices

2016-09-18

Transparency, Power, and Control

2016-02-24

Spin Control

1994

The Micropolitics of Knowledge

1992

2016 2nd International Conference on Communication Control and Intelligent Systems (CCIS)

2016-11-18

Cybernetics Or Control and Communication in the Animal and the Machine

1961

STAMP 2 Communications and Control Projects

2003-03-21

Cybernetics

1969

Micropolitics of Knowledge

1992

Command, Control, & Communications (C3)

1983-01-01

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