
NETWORK THEORY AND APPLICATIONS

Switching Networks: Recent Advances

Ding-Zhu Du and Hung Q. Ngo
Editors

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Switching Networks Recent Advances Network Theory And Applications

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Hoang Duy, Tran Trong Dao**



Switching Networks Recent Advances Network Theory And Applications:

Switching Networks: Recent Advances Ding-Zhu Du, Hung Q. Ngo, 2013-12-01 This book contains recent developments in switching networks and applications including classic topics such as nonblocking and Benes conjecture and new directions such as optical switching networks and applications in VLSI designs It provides the state of the art for researchers in computer networks and applied mathematics Audience Researchers in computer networks and applied mathematics The book is appropriate for use in graduate courses

Optical Networks — Recent Advances Lu Ruan, Ding-Zhu Du, 2013-12-01 With the rapid growth of bandwidth demand from network users and the advances in optical technologies optical networks with multiterabits per second capacity has received significant interest from both researchers and practitioners Optical networks deployment raises a number of challenging problems that require innovative solutions including network architectures scalable and fast network management resource efficient routing and wavelength assignment algorithms QoS support and scheduling algorithms and switch and router architectures In this book we put together some important developments in this exiting area during last several years Some of the articles are research papers and some are surveys All articles were reviewed by two reviewers The paper On Dynamic Wavelength Assignment in WDM Optical Networks by Alanyali gives an overview of some issues in the analysis and synthesis of dynamic wavelength assignment policies for optical WDM networks and illustrates a new method of analysis The paper by Ellinas and Bala Wavelength Assignment Algorithms for WDM Ring Architectures presents two optimal wavelength assignment algorithms that assign the minimum number of wavelengths between nodes on WDM rings to achieve full mesh connectivity In the paper Optimal Placement of Wavelength Converters in WDM Networks for Parallel and Distributed Computing Systems Jia et al

AETA 2019 - Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Dario Fernando Cortes Tobar, Vo Hoang Duy, Tran Trong Dao, 2020-08-10 This proceedings book features selected papers on 12 themes including telecommunication power systems digital signal processing robotics control systems renewable energy power electronics soft computing and more Covering topics such as optoelectronic oscillator at S band and C band for 5G telecommunications neural networks identification of eleven types of faults in high voltage transmission lines cyber attack mitigation on smart low voltage distribution grids optimum load of a piezoelectric based energy harvester the papers present interesting ideas and state of the art overviews

The Froehlich/Kent Encyclopedia of Telecommunications Fritz E. Froehlich, Allen Kent, 1998-12-01 Television Technology to Wire Antennas

AETA 2018 - Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Ivan Zelinka, Pavel Brandstetter, Tran Trong Dao, Vo Hoang Duy, Sang Bong Kim, 2019-04-13 These proceedings address a broad range of topic areas including telecommunication power systems digital signal processing robotics control systems renewable energy power electronics soft computing and more Today's world is based on vitally important technologies that combine e.g. electronics cybernetics computer science telecommunication and

physics However since the advent of these technologies we have been confronted with numerous technological challenges such as finding optimal solutions to various problems regarding controlling technologies signal processing power source design robotics etc Readers will find papers on these and other topics which share fresh ideas and provide state of the art overviews They will also benefit practitioners who can easily apply the issues discussed here to solve real life problems in their own work Accordingly the proceedings offer a valuable resource for all scientists and engineers pursuing research and applications in the above mentioned fields

AETA 2023—Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Tran Trong Dao,Ivan Zelinka,Vo Hoang Duy,Jeil-Pil Wang,Chau Si Thien Dong,Phuong T. Tran,2025-05-31 This book features selected papers from the 8th International Conference in Advanced Engineering Theory Applications AETA 2023 during 14 16 December in Busan Korea The topics of the papers cover three main topics energy energy saving power electronics electrical machines and drive systems green energy IT nontrivial dynamics of electronic devices control engineering robotics automatic control biosensor IT communication and security broadcasting IT communications cyber security Its content caters to researchers scientist and engineers who are interested in scientific achievements and advanced technologies of electrical electronic telecommunication computer science and mechanical mechatronics engineering

AETA 2022—Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Tran Trong Dao,Vo Hoang Duy,Ivan Zelinka,Chau Si Thien Dong,Phuong T. Tran,2024-03-01 This proceedings book features selected papers on 12 themes including wireless communications power systems signal processing robotics control systems sustainable energy power electronics intelligent networks and more Covering topics such as performance of reconfigurable intelligent surfaces for 6G communication networks improved neural network algorithms for optimizing the power flow of renewable energy sources anomaly detection using stationary and non stationary signal analysis in data sciences novel object identification and distance estimation algorithms for self driving vehicles the book presents interesting ideas and state of the art overviews

Proceedings of the International Symposium on Network Theory Organized by the University of Belgrade and the Yugoslav Committee for Electronics and Automation ,1968

NBS Special Publication ,1973

Recent Advances in the Theory and Application of Fitness Landscapes Hendrik Richter,Andries Engelbrecht,2013-11-19 This book is concerned with recent advances in fitness landscapes The concept of fitness landscapes originates from theoretical biology and refers to a framework for analysing and visualizing the relationships between genotypes phenotypes and fitness These relationships lay at the centre of attempts to mathematically describe evolutionary processes and evolutionary dynamics The book addresses recent advances in the understanding of fitness landscapes in evolutionary biology and evolutionary computation In the volume experts in the field of fitness landscapes present these findings in an integrated way to make it accessible to a number of audiences senior undergraduate and graduate students in computer science theoretical biology physics applied mathematics and engineering but also researcher looking for a

reference or an entry point into using fitness landscapes for analysing algorithms. Also practitioners wanting to employ fitness landscape techniques for evaluating bio and nature inspired computing algorithms can find valuable material in the book. For teaching purposes the book could also be used as a reference handbook.

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