

The Practical OPNET® User Guide for Computer Network Simulation

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Hnatyshin,2012-08-24 One of the first books to provide a comprehensive description of OPNET IT Guru and Modeler software The Practical OPNET User Guide for Computer Network Simulation explains how to use this software for simulating and modeling computer networks The included laboratory projects help readers learn different aspects of the software in a hands on way Quickly Locate Instructions for Performing a Task The book begins with a systematic introduction to the basic features of OPNET which are necessary for performing any network simulation The remainder of the text describes how to work with various protocol layers using a top down approach Every chapter explains the relevant OPNET features and includes step by step instructions on how to use the features during a network simulation Gain a Better Understanding of the Whats and Whys of the Simulations Each laboratory project in the back of the book presents a complete simulation and reflects the same progression of topics found in the main text The projects describe the overall goals of the experiment discuss the general network topology and give a high level description of the system configuration required to complete the simulation Discover the Complex Functionality Available in OPNET By providing an in depth look at the rich features of OPNET software this guide is an invaluable reference for IT professionals and researchers who need to create simulation models The book also helps newcomers understand OPNET by organizing the material in a logical manner that corresponds to the protocol layers in a network The Practical OPNET User Guide for Computer Network Simulation Adarshpal S.

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Sawicki,2017-05-27 This book constitutes the thoroughly refereed proceedings of the 24th International Conference on Computer Networks CN 2017 held in Brun w Poland in June 2017 The 35 full papers presented were carefully reviewed and

selected from 80 submissions They are dealing with the topics computer networks teleinformatics and telecommunications new technologies queueing theory innovative applications *Global Information Diffusion and Management in Contemporary Society* Zhang, Zuopeng (Justin), 2018-07-13 Changing business environments and information technology advancements fundamentally reshaped the traditional information landscape in our contemporary society urging companies to seek innovative ways to diffuse and manage assets on a global scale It is crucial for society to understand the new methodologies and common practices that organizations can utilize to leverage their knowledge into practice *Global Information Diffusion and Management in Contemporary Society* is an essential reference source featuring research on the development and implementation of contemporary global information management initiatives in organizations Including coverage on a multitude of topics such as data security global manufacturing and information governance this book explores the importance of information management in a global context This book is ideally designed for managers information systems specialists professionals researchers and administrators seeking current research on the theories and applications of global information management *Advances in Computer and Computational Sciences* Sanjiv K. Bhatia, Krishn K. Mishra, Shailesh Tiwari, Vivek Kumar Singh, 2017-05-25 Exchange of information and innovative ideas are necessary to accelerate the development of technology With advent of technology intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences Keeping this ideology in preference this book includes the insights that reflect the *Advances in Computer and Computational Sciences* from upcoming researchers and leading academicians across the globe It contains high quality peer reviewed papers of International Conference on Computer Communication and Computational Sciences ICCCCS 2016 held during 12-13 August 2016 in Ajmer India These papers are arranged in the form of chapters The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design advanced communications power and energy optimization intelligent techniques used in internet of things intelligent image processing advanced software engineering evolutionary and soft computing security and many more This book helps the perspective readers from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications

Advances in Network Systems Maciej Grzenda, Ali Ismail Awad, Janusz Furtak, Jarosław Legierski, 2016-12-24 This book provides the reader with a comprehensive selection of cutting edge algorithms technologies and applications The volume offers new insights into a range of fundamentally important topics in network architectures network security and network applications It serves as a reference for researchers and practitioners by featuring research contributions exemplifying research done in the field of network systems In addition the book highlights several key topics in both theoretical and practical aspects of networking These include wireless sensor networks performance of TCP connections in mobile networks photonic data transport networks security policies credentials management data encryption for network transmission risk

management live TV services and multicore energy harvesting in distributed systems Shaping the Future of ICT Ibrahim M. M. El Emery, Anna Brzozowska, 2017-09-19 The International Conference on Communications Management and Information Technology ICCMIT 16 provides a discussion forum for scientists engineers educators and students about the latest discoveries and realizations in the foundations theory models and applications of systems inspired on nature using computational intelligence methodologies as well as in emerging areas related to the three tracks of the conference Communication Engineering Knowledge and Information Technology The best 25 papers to be included in the book will be carefully reviewed and selected from numerous submissions then revised and expanded to provide deeper insight into trends shaping future ICT *Communication, Management and Information Technology* Marcelo Sampaio de Alencar, 2016-11-03 Communication Management and Information Technology contains the contributions presented at the International Conference on Communication Management and Information Technology ICCMIT 2016 Cosenza Italy 26 29 April 2016 organized by the Universal Society of Applied Research USAR The book aims at researchers scientists engineers and scholar students interested or involved in Computer Science and Systems Communication and Management **Introduction to the Cyber Ranges** Bishwajeet Pandey, Shabeer Ahmad, 2022-05-03 Introduction to the Cyber Ranges provides a comprehensive integrative easy to comprehend overview of different aspects involved in the cybersecurity arena It expands on various concepts like cyber situational awareness simulation and emulation environments and cybersecurity exercises It also focuses on detailed analysis and the comparison of various existing cyber ranges in military academic and commercial sectors It highlights every crucial aspect necessary for developing a deeper insight about the working of the cyber ranges their architectural design and their need in the market It conveys how cyber ranges are complex and effective tools in dealing with advanced cyber threats and attacks Enhancing the network defenses resilience and efficiency of different components of critical infrastructures is the principal objective of cyber ranges Cyber ranges provide simulations of possible cyberattacks and training on how to thwart such attacks They are widely used in urban enterprise sectors because they present a sturdy and secure setting for hands on cyber skills training advanced cybersecurity education security testing training and certification Features A comprehensive guide to understanding the complexities involved with cyber ranges and other cybersecurity aspects Substantial theoretical knowhow on cyber ranges their architectural design along with case studies of existing cyber ranges in leading urban sectors like military academic and commercial Elucidates the defensive technologies used by various cyber ranges in enhancing the security setups of private and government organizations Information organized in an accessible format for students in engineering computer science and information management professionals researchers and scientists working in the fields of IT cybersecurity distributed systems and computer networks

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