

# Lab Manual for OPNET Training

## Using this book

In each section, there is some information about what you are doing and why, and some step-by-step instructions in **bold** type. There are also screenshots of the lab at various stages. For each section, read through the lab once to see what you will be doing, then go back and follow the instructions. There are screenshots above some sections that show what your project should look like. When you are done with the section, if the rest of the class is still working, we suggest that you look at the Online Documentation (under the Help menu) and search for relevant topics or topics of interest to you.

### IT Guru Day 1

- Lab 1 : Creating a Topology
- Lab 2 : Adding Traffic
- Lab 3 : Choose Statistics and Run Simulation
- Lab 4 : View Results
- Lab 5 : Create Additional Scenarios

### IT Guru Day 2

- Lab 6 : Building Network Topologies
- Lab 7 : Application Response Time Engineering
- Lab 8 : Traffic Engineering using MPLS
- Lab 9 : Simulation Methodology for the Analysis of QoS

### OPNET Modeler Day 1

- Lab 10 : Creating Node Model
- Lab 11 : Creating Link Model
- Lab 12 : Completing the Bank Network

### OPNET Modeler Day 2

- Lab 13 : Expanding the Bank Network
- Lab 14 : Creating Process Model

# Lab Manual For Opnet

**Irene Katzela**



## Lab Manual For Opnet:

**The Practical OPNET User Guide for Computer Network Simulation** Adarshpal S. Sethi, Vasil Y.

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. Q **OPNET Lab Manual** Leann Christianson, 2005 Network Simulation Experiments Manual Emad

Aboelela, 2007-12-05 Network Simulation Experiments Manual Second Edition enables networking professionals to visualize how networks work by providing free access to easy-to-install OPNET software. This software provides a virtual environment for modeling, analyzing, and predicting the performance of IT infrastructures including applications, servers, and networking technologies. The book also goes a step further by providing detailed experiments on core networking topologies for use in this simulation environment. Each experiment is also accompanied by review questions, a lab report, and exercises. This book is recommended for graduate students and networking designers and professionals. Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products. The experiments in this manual are closely tied to Peterson/Davie Computer Networks fourth edition, a best-selling Morgan Kaufmann title, making it a perfect companion book. **Innovative Control Systems for Tracked Vehicle**

**Platforms** Aleksander. M. Nawrat. M., 2014-02-13 This book has been motivated by an urgent need for designing and implementation of innovative control algorithms and systems for tracked vehicles. Nowadays, the unmanned vehicles are becoming more and more common. Therefore, there is a need for innovative mechanical constructions capable of adapting to various applications regardless of the ground, air, or water underwater environment. There are multiple various activities connected with tracked vehicles. They can be distributed among three main groups: design and control algorithms, sensoric, and vision-based information construction and testing of mechanical parts of unmanned vehicles. Scientists and researchers involved in mechanics, control algorithms, image processing, computer vision, data fusion, or IC will find this book useful.

OPNET Lab Manual to Accompany Data and Computer Communications, Seventh Edition Kevin Brown, William

Stallings, Leann Christianson, 2005 **Research, Practice, and Educational Advancements in Telecommunications and Networking** Bartolacci, Michael, Powell, Steven R., 2012-01-31 The study of telecommunications and networking allows us to understand existing modes of communication and information transfer while also developing new methods for managing, modeling, and regulating the exchange of information. Research, Practice, and Educational Advancements in Telecommunications and Networking offers multidisciplinary perspectives on architectures and systems for effective, efficient communication across different types of infrastructures which include online and wireless networks. Collecting research on mobile ad hoc networks, VoIP, and mobile recommendation systems, this book provides theoretical discussions as well as

practical research on new and emerging developments in telecommunications and networking      **Service Robotics within the Digital Home** Ignacio González Alonso, Mercedes Fernández, José M. Maestre, María del Pilar Almudena García Fuente, 2011-06-27 This book provides the reader with a clear and precise description of robotics and other systems for home automation currently on the market and discusses their interoperability and perspectives for the near future It shows the different standards and the development platforms used by the main service robots in an international environment This volume provides a scientific basis for the user who is looking for the best option to suit his or her needs from the available alternatives to integrate modern technology in the digital home      1975, 通信の年鑑 通信の年鑑      *Annual Review of Communications: Volume 59* International Engineering Consortium, 2007 An indispensable reference publication for telecommunication and information industry professionals Each year the IEC brings together into one unique resource the most current thinking and practical experience of industry leaders around the world on a variety of topics facing their areas of specialization This 700 page reference tool is a must for executives managers engineers analysts and educators in all sectors of today's changing information industry      *Learning Management Systems and Instructional Design: Best Practices in Online Education* Kats, Yefim, 2013-04-30 The technical resources budgets curriculum and profile of the student body are all factors that play in implementing course design Learning management systems administrate these aspects for the development of new methods for course delivery and corresponding instructional design Learning Management Systems and Instructional Design Best Practices in Online Education provides an overview on the connection between learning management systems and the variety of instructional design models and methods of course delivery This book is a useful source for administrators faculty instructional designers course developers and businesses interested in the technological solutions and methods of online education      **Modeling and Simulating Communication Networks** Irene Katzela, 1999 Provides six computer laboratory sessions by which students of network communications can develop a feel for designing networks with complex protocols by changing parameters and seeing the corresponding impact through performance statistics and animations Can be used alone or in conjunction with a standard text on network communications No index or bibliography Annotation copyrighted by Book News Inc Portland OR      Information Communication Technologies: Concepts, Methodologies, Tools, and Applications Van Slyke, Craig, 2008-04-30 The rapid development of information communication technologies ICTs is having a profound impact across numerous aspects of social economic and cultural activity worldwide and keeping pace with the associated effects implications opportunities and pitfalls has been challenging to researchers in diverse realms ranging from education to competitive intelligence      Smart Data and Computational Intelligence Faddoul Khoukhi, Mohamed Bahaj, Mostafa Ezziyyani, 2019-02-28 This book gathers the proceedings of the International Conference on Advanced Information Technology Services and Systems AIT2S 18 which was held in Mohammedia Morocco on October 17 18 2018 Presenting the latest research in the fields of Modern Information Engineering Concepts and Communication

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