

# Automatic Test Packet Generation

Hongyi Zeng , Peyman Kazemian , Nick McKeown  
University, Stanford, CA, USA

George Varghese  
UCSD, La Jolla  
Microsoft Research, Mountain View, CA, USA

<https://github.com/eastzone/atpg/wiki>

# Automatic Test Packet Generation

**Raffaela Di Napoli**



## **Automatic Test Packet Generation:**

*Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques* Prasad Raghavendra, Sofya Raskhodnikova, Klaus Jansen, José D.P. Rolim, 2013-08-16 This book constitutes the proceedings of the 16th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2013 and the 17th International Workshop on Randomization and Computation RANDOM 2013 held in August 2013 in the USA The total of 48 carefully reviewed and selected papers presented in this volume consist of 23 APPROX papers selected out of 46 submissions and 25 RANDOM papers selected out of 52 submissions APPROX 2013 focuses on algorithmic and complexity theoretic issues relevant to the development of efficient approximate solutions to computationally difficult problems while RANDOM 2013 focuses on applications of randomness to computational and combinatorial problems A Method and a Tool for the

Real-time Evaluation of Fast Packet Switching Systems Andreas G. Herkersdorf, 1991

**Advances in Computer Science and Ubiquitous Computing** James J. (Jong Hyuk) Park, Yi Pan, Gangman Yi, Vincenzo Loia, 2016-12-01 This book presents the combined proceedings of the 8th International Conference on Computer Science and its Applications CSA 16 and the 11st International Conference on Ubiquitous Information Technologies and Applications CUTE 2016 both held in Bangkok Thailand December 19 21 2016 The aim of these two meetings was to promote discussion and interaction among academics researchers and professionals in the field of ubiquitous computing technologies These proceedings reflect the state of the art in the development of computational methods involving theory algorithm numerical simulation error and uncertainty analysis and novel application of new processing techniques in engineering science and other disciplines related to ubiquitous computing

Advanced Multimedia and Ubiquitous Engineering James J. (Jong Hyuk) Park, Shu-Ching Chen, Kim-Kwang Raymond Choo, 2017-05-11 This book presents the proceedings of the 11th International Conference on Multimedia and Ubiquitous Engineering MUE2017 and the 12th International Conference on Future Information Technology FutureTech2017 held in Seoul South Korea on May 22 24 2017 These two conferences provided an opportunity for academic and industrial professionals to discuss recent advances in the area of multimedia and ubiquitous environments including models and systems new directions and novel applications associated with the utilization and acceptance of ubiquitous computing devices and systems The resulting papers address the latest technological innovations in the fields of digital convergence multimedia convergence intelligent applications embedded systems mobile and wireless communications bio inspired computing grid and cloud computing semantic web user experience HCI and security and trust computing The book offers a valuable resource for a broad readership including students academic researchers and professionals Further it provides an overview of current research and a snapshot for those new to the field *Testing of Software and Communicating Systems* Kenji Suzuki, Teruo Higashino, Andreas Ulrich, Toru Hasegawa, 2008-05-26 This book constitutes the refereed proceedings of the 20th IFIP TC 6 WG 6.1 International Conference on Testing Communicating Systems TestCom 2008 and the 8th

International Workshop on Formal Approaches to Testing of Software FATES 2008 jointly held in Tokyo Japan in June 2008 The 18 revised full papers presented together with 2 invited talks were carefully reviewed and selected from initially 58 submissions to both events The papers cover new approaches concepts theories methodologies tools and experiences in the field of testing of communicating systems and general software They are organized in topical sections on general software testing testing continuous and real time systems network testing test generation concurrent system testing and applications of testing

*Information Fusion for Cyber-Security Analytics* Izzat M Alsmadi, George Karabatis, Ahmed Aleroud, 2016-10-21 This book highlights several gaps that have not been addressed in existing cyber security research It first discusses the recent attack prediction techniques that utilize one or more aspects of information to create attack prediction models The second part is dedicated to new trends on information fusion and their applicability to cyber security in particular graph data analytics for cyber security unwanted traffic detection and control based on trust management software defined networks security in wireless sensor networks their applications and emerging trends in security system design using the concept of social behavioral biometric The book guides the design of new commercialized tools that can be introduced to improve the accuracy of existing attack prediction models Furthermore the book advances the use of Knowledge based Intrusion Detection Systems IDS to complement existing IDS technologies It is aimed towards cyber security researchers

Troubleshooting for Network Operators Van Van Tong, Sami Souihi, Hai-Anh Tran, Abdelhamid Mellouk, 2023-10-10 Nowadays the Internet is becoming more and more complex due to an everincreasing number of network devices various multimedia services and a prevalence of encrypted traffic Therefore in this context this book presents a novel efficient multi modular troubleshooting architecture to overcome limitations related to encrypted traffic and high time complexity This architecture contains five main modules data collection anomaly detection temporary remediation root cause analysis and definitive remediation In data collection there are two sub modules parameter measurement and traffic classification This architecture is implemented and validated in a software defined networking SDN environment

IEEE VLSI Test Symposium, 2004

**Automatic Data Plane Testing** Hongyi Zeng, 2014 Today s networks require much human intervention to keep them working Every day network engineers wrestle with router misconfigurations fiber cuts faulty interfaces mislabeled cables software bugs intermittent links and a myriad other issues that cause networks to misbehave or fail completely Network engineers hunt down bugs using the most rudimentary tools and track down root causes using a combination of accrued wisdom and intuition We found that many network problems are associated with data plane behaviors i e how the network transports data plane packets This dissertation discusses the design and implementation of automatic data plane testing tools under various network scenarios We first present Automatic Test Packet Generation ATPG a foundation framework of data plane testing when all data plane information is available and accurate ATPG reads router configurations and generates a device independent model The model is used to generate a minimum set of test packets to

minimally exercise every link in the network or maximally exercise every rule in the network Test packets are sent periodically and detected failures trigger a separate mechanism to localize the fault NetSonar extends ATPG by allowing incomplete or inaccurate data plane information as inputs Earlier test techniques were either white box assumes complete forwarding knowledge or black box assumes no knowledge We argue that the former is infeasible in large networks and the latter is inefficient and incomplete NetSonar is the first graybox tester for networks and the first tester deployed in a production network NetSonar uses only coarse forwarding information and does not require knowledge of load balancing hash functions Finally we move our focus to data center networks with thousands of switches and millions of forwarding table entries Data center owners use static analysis tools that examine the topology and forwarding tables to check for loops black holes and reachability failures However the existing tools do not scale to a large data center network Moreover no existing tool addresses the problem of potential false positives when analyzing a network snapshot when the network state is constantly in flux We present Libra a tool for verifying forwarding tables in large data center networks that simplifies ATPG's data plane model to significantly improve verification performance

**Proceedings of the 5th International Conference on Electrical Engineering and Automatic Control** Bo Huang,Yufeng Yao,2016-07-15 On the basis of instrument electrical and automatic control system the 5th International Conference on Electrical Engineering and Automatic Control CEEAC was established at the crossroads of information technology and control technology and seeks to effectively apply information technology to a sweeping trend that views control as the core of intelligent manufacturing and life This book takes a look forward into advanced manufacturing development an area shaped by intelligent manufacturing It highlights the application and promotion of process control represented by traditional industries such as the steel industry and petrochemical industry the technical equipment and system cooperative control represented by robot technology and multi axis CNC and the control and support of emerging process technologies represented by laser melting and stacking as well as the emerging industry represented by sustainable and intelligent life The book places particular emphasis on the micro segments field such as intelligent micro grids new energy vehicles and the Internet of Things

**IEEE Autotestcon Proceedings** ,1982 **IEEE Intercon Conference Record** ,1975 **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,2001 *Autotestcon '82, October 12-14* ,1982 **Proceedings** ,2005 **APCCAS ...** ,1994 *Proceedings* Ieee,2004 The proceedings of the 21st IEEE VLSI test symposium VTS 2003 describing innovations in the testing of integrated circuits and systems **Model Checking Software** ,2005 **The 14th IEEE International Conference on Automated Software Engineering** IEEE Computer Society,1999 Twenty five papers presented at the October 1999 conference are grouped into sessions having the broad topics of software synthesis requirements elicitation reuse test synthesis analysis verification transformation architecture and automated testing Among the topics are data mining library reuse patterns in user selected applications industrial applications of software synthesis via category theory

automated translation of UML models of architectures for verification and simulation using SPIN verification of picture generated code evolving object oriented designs with refactorings automatically detecting mismatches during component based and model based development and an overview of Lutess a specification based tool for testing synchronous software There are also 25 short papers that represent novel work not yet fully mature No subject index Annotation copyrighted by Book News Inc Portland OR      **Sixth IEEE International High-Level Design Validation and Test Workshop** ,2001 Eighteen full papers and eight short presentations from international engineers and researchers discuss current developments new methodologies and emerging trends in design verification and test The focus of the sixth conference was on hardware software embedded systems and system on chips Topics include for example the automatic validation of pipeline specifications the use of sequential ATPG for model checking formal verification of the Pentium 4 multiplier and using cutwidth to improve symbolic simulation and Boolean satisfiability The volume is not indexed c Book News Inc

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