

Lecture Notes in Networks and Systems 167

Ajith Abraham
Oscar Castillo
Deepali Virmani *Editors*

Proceedings of 3rd International Conference on Computing Informatics and Networks

ICCIN 2020

 Springer

Proceedings of 3rd International Conference on Computing Informatics and Networks pp 101–123 | [Cite as](#)

A Systematic Literature Review of Automated Software Testing Tool

[Lalji Prasad](#)  [Rashmi Yadav](#) & [Niti Vore](#) Conference paper | [First Online: 15 March 2021](#)

408 Accesses | 1 Citations

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 167)


Abstract

Automated software testing has proven its value for software development increasingly over the past few years. Software testing is an important phase in the entire software development process. There are various automated software testing tools are available today, which are used for testing various software applications whether it is desktop-based, mobile application, or a Web-based application. Evaluating a software testing tool is rather a subjective task, depending on the evaluator's opinions rather than based on the objective approach. For this purpose, we have studied research papers, articles, journals, books, conference papers, few Web sites, etc., related with the study of software testing tools based on which we performed a survey of various automated software testing tools, i.e., Selenium, Watir, QTP, TestComplete, WinRunner, LoadRunner, SilkTest, Apache Jmeter Wapt, Tellurium, Web Load, NeoLoad, LoadUI, Appvance, rational performance tester, SahiPro, Telerik Test Studio, Ranorex, Storm, Soap UI, TestNG, FitNese, Xebium, etc. The purpose of this research work is to summarize the existing literature and to establish an overview of the existing automated software testing tool to benefit the practice of users and for future research. We are attempting to provide detailed insight into automated software testing tools which can help the tester to choose the tool most suited to test his/her application.

Keywords

Automated Software testing Selenium Software development Testing tool

Web-based application

Access via your institution 

Chapter **EUR 29.95**
Price includes VAT (India)

- DOI: 10.1007/978-981-15-9712-1_10
- Chapter length: 23 pages
- Instant PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

[Buy Chapter](#)

> eBook	EUR 181.89
> Softcover Book	EUR 219.99
> Hardcover Book	EUR 219.99

[Learn about institutional subscriptions](#)

Sections

References

[Abstract](#)[Abbreviations](#)[References](#)[Author information](#)[Editor information](#)[Rights and permissions](#)[Copyright information](#)[About this paper](#)

Price includes VAT (India)

- DOI: 10.1007/978-981-15-9712-1_10
- Chapter length: 23 pages
- Instant PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

[Buy Chapter](#)

> eBook	EUR 181.89
> Softcover Book	EUR 219.99
> Hardcover Book	EUR 219.99

[Learn about institutional subscriptions](#)

Sections

References

[Abstract](#)[Abbreviations](#)[References](#)[Author information](#)[Editor information](#)[Rights and permissions](#)[Copyright information](#)[About this paper](#)

Author information

Authors and Affiliations

Sagar Institute of Research and Technology, SAGE University, Indore, India
Lalji Prasad & Niti Vore

Department of Computer Science and Engineering, Acropolis Technical Campus, Indore, India
Rashmi Yadav

Corresponding authors

Correspondence to [Lalji Prasad](#) or [Niti Vore](#).

Editor information

Editors and Affiliations

Scientific Network for Innovation and Research Excellence, Machine Intelligence Research Labs (MIR Labs), Auburn, WA, USA
Prof. Ajith Abraham

Tijuana Institute of Technology, Tijuana, Mexico
Prof. Dr. Oscar Castillo

Bhagwan Parshuram Institute of Technology, New Delhi, India
Prof. Deepali Virmani

Rights and permissions

[Reprints and Permissions](#)

Copyright information

Advances in Intelligent Systems and Computing 939

Ajith Abraham
Niketa Gandhi
Millie Pant *Editors*

Innovations in Bio- Inspired Computing and Applications

Proceedings of the 9th International
Conference on Innovations in Bio-
Inspired Computing and Applications
(IBICA 2018) held in Kochi, India
during December 17–19, 2018

 Springer



International Conference on Innovations in Bio-Inspired Computing and Applications

↳ IBICA 2020: **Innovations in Bio-Inspired Computing and Applications** pp 187–195 | [Cite as](#)

EECT: Energy Efficient Clustering Technique Using Node Probability in Ad-Hoc Network

Virendra Dani  Nisha Bhati & Deepesh BhatiConference paper | [First Online: 10 April 2021](#)

252 Accesses | 3 Citations

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1372)

Abstract

In the Current Scenario, energy consumption in the wireless ad-hoc network is most important mean criteria for different routing algorithms. Energy of the nodes in wireless ad hoc system is delivered from battery device. Since, the battery capacity is inadequate and there is no option of replacing or re-charging; energy loss of a node will affect not only on that node but also on its ability to direct the packets and accordingly on network life span. Energy efficiency is accomplished from hardware level to network protocol levels. Clustering of nodes is an efficient mechanism to decrease energy expenditure of nodes. Clustering algorithms cluster nodes in self-governing clusters. Clustering mechanism extend network lifetime by avoid long distance communication of nodes to base station. To increase the network lifetime, we proposed energy efficient routing clustering approach using AODV based routing protocol modification based on node probability of entire network. In this perception the energy targeted QoS parameters of network which are selected for performance measurement. Therefore results demonstrated that proposed approach is much

Access via your institution →

Chapter EUR 29.95
Price includes VAT (India)

- DOI: 10.1007/978-3-030-73603-3_17
- Chapter length: 9 pages
- Instant PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

Buy Chapter

> eBook EUR 139.09

> Softcover Book EUR 169.99

[Learn about institutional subscriptions](#)

Sections

Figures

References

[Abstract](#)[References](#)[Author information](#)[Editor information](#)[Rights and permissions](#)[Download references](#) ↓

Author information

Authors and Affiliations

Computer Science and Engineering Department, Shivajirao Kadam Institute of Technology and Management, Indore, India

Virendra Dani

Computer Science and Engineering Department, Medi-Caps University, Indore, India

Nisha Bhati

Electrical and Electronics Engineering Department, IPS Academy, IES, Indore, India

Deepesh Bhati

Corresponding author

Correspondence to [Virendra Dani](#).

Editor information

Editors and Affiliations

Scientific Network for Innovation and Research Excellence, Machine Intelligence Research Labs (MIR Labs), Auburn, WA, USA

Prof. Dr. Ajith Abraham

National Institute of Information and Communications Technology (NICT), Koganei, Tokyo, Japan

Prof. Dr. Hideyasu Sasaki

Chapter EUR 29.95
Price includes VAT (India)

- DOI: 10.1007/978-3-030-73603-3_17
- Chapter length: 9 pages
- Instant PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

Buy Chapter

> eBook EUR 139.09

> Softcover Book EUR 169.99

[Learn about institutional subscriptions](#)

Sections

Figures

References

[Abstract](#)[References](#)[Author information](#)[Editor information](#)[Rights and permissions](#)[Copyright information](#)[About this paper](#)