

ISSN: 2540-9824

JOURNAL OF INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

Volume 3 | Issue 1 | June 2018 | Page 01-112



JITeCS

THE JOURNAL OF INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

Volume 3, Issue 1, June 2018

p-ISSN: 2540-9433; e-ISSN: 2540-9824

JITeCS is published by Faculty of Computer Science (FILKOM), Universitas Brawijaya (UB) since March 2016. JITeCS contains manuscripts of research results in the field of Information Technology and Computer Science.

Director

Wayan Firdaus Mahmudy

Editor in Chief

Ahmad Afif Supianto

Managing Editor

Gembong Edhi Setyawan

Publication and Site Administrators

Edwin Ibnu Kautsar

Lina Purbosari

Editor's Address and Administration

The Journal of Information Technology and Computer Science (JITeCS)

Faculty of Computer Science (FILKOM), Universitas Brawijaya (UB)

8 Veteran Road | Malang, Indonesia – 65145

General: (0341) 577-911 | Fax: (0341) 577-911

Email: jitecs@ub.ac.id

Website: <http://www.jitecs.ub.ac.id>

JITeCS is a peer-reviewed open access journal published by Faculty of Computer Science (FILKOM), Universitas Brawijaya (UB), Indonesia. JITeCS publishes original research findings and high-quality scientific articles that present cutting-edge approaches including methods, techniques, tools, implementations, and applications.

JITeCS

THE JOURNAL OF INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

Volume 3, Issue 1, June 2018

p-ISSN: 2540-9433; e-ISSN: 2540-9824

JITeCS's Editor would like to appreciation and big thank for the reviewers who have been to take a few times to review for manuscripts that submitted by the author to JITeCS FILKOM UB.

Reviewers

1. Amando, Jr. Pimentel Singun, Higher College of Technology, Muscat, Sultanate of Oman, Oman
2. Dr. Andi Wahyu Rahardjo Emanuel, Universitas Atma Jaya Yogyakarta, Indonesia
3. Andysah Putera Utama Siahaan, Universitas Pembangunan Panca Budi, Indonesia
4. Aryo Pinandito, Universitas Brawijaya, Indonesia
5. Barlian Henryranu Prasetyo, Universitas Brawijaya, Indonesia
6. Candra Dewi, Universitas Brawijaya, Indonesia
7. Dewi Yanti Liliana, State Polytechnic of Jakarta, Indonesia
8. Didi Rosiyadi, Research Center for Informatics-Indonesian Institute of Sciences, Indonesia
9. Didit Widiyanto, UPN Veteran Jakarta, Indonesia
10. Ditdit Nugeraha Utama, Universitas Mercu Buana, Indonesia
11. Erick Fernando, STIKOM DB Jambi, Indonesia
12. Fitra Abdurrahman Bachtiar, Universitas Brawijaya, Indonesia
13. Hanung Adi Nugroho, Universitas Gadjah Mada, Indonesia
14. Herman Tolle, Universitas Brawijaya, Indonesia
15. Hilman Ferdinandus Pardede, Research Center for Informatics-Indonesian Institute of Sciences, Indonesia
16. Imam Cholissodin, Universitas Brawijaya, Indonesia
17. K Vengatesan, Marathwada Institute of Technology, Aurangabad, India
18. Mahdi Bahaghighat, Raja University Of Qazvin, Iran, Islamic Republic of
19. Mohamed Abou Bakr Ibrahim Mohamed El-Ashiri, Beni Suief University, Egypt
20. Noor Akhmad Setiawan, Universitas Gadjah Mada, Indonesia
21. Nur Uddin, Universitas Pembangunan Jaya, Indonesia
22. Robbi Rahim, Institut Teknologi Medan, Indonesia
23. Shahreen Kasim, Universiti Tun Hussein Onn Malaysia, Malaysia
24. Titin Pramiyati, UPN "Veteran" Jakarta, Indonesia
25. Tri Astoto Kurniawan, Universitas Brawijaya, Indonesia
26. Wayan Firdaus Mahmudy, Universitas Brawijaya, Indonesia
27. Whenzao Zhang, North Carolina State University, United States

JITeCS

THE JOURNAL OF INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

Volume 3, Issue 1, June 2018

p-ISSN: 2540-9433; e-ISSN: 2540-9824

Table Of Contents

Introducing a Practical Educational Tool for Correlating Algorithm Time Complexity with Real Program Execution <i>Gisela Kuniawati, Oscar Karnalim</i>	1-15
Service Design of Implementation Primary Health Care Management Model Service “Andal” in PG Kebonagung Polyclinic, Malang District <i>Yasir Sani, Ismiartha Aknuranda, Herman Tolle</i>	16-34
Sugeno-Type Fuzzy Inference Optimization With Firefly and K-Means Clustering Algorithms For Rainfall Forecasting <i>M.Shochibul Burhan, Wayan Firdaus Mahmudy, Rizdania Dermawi</i>	35-48
Peak Load Prediction Using Fuzzy Logic For The 150 kV Sulselrabar System <i>M.Ruswandi Djalal, Andareas Pangkung, Sonong, Apollo</i>	49-59
E-Learning System Audit in Engineering Faculty of Nurul Jadid University using Cobit 4.1 Framework <i>Anis Yusrotun Nadhiroh, Durratul Hikmah</i>	60-66
User Experience on E-Government Online Services: A Case Study on The SIMPATIKA Service Application at The Ministry of Religious Affairs of Indonesia <i>Bondan Sapta Prakoso, Apol Pribadi Subriadi</i>	67-76
Extreme Learning Machine Weights Optimization Using Genetic Algorithm In Electrical Load Forecasting <i>Vina Meilia, Budi Dharma Setiawan, Nurudin Santoso</i>	77-87
Usability Evaluation of Mobile-Based Application for Javanese Script Learning Media <i>Ratih Kartika Dewi, Nurizal Dwi Priandani, Komang Chandra Brata, Lutfi Fanani</i>	88-93
Development of Academic Assessment Management Information System (Case Study: KB & TK Permata Iman) <i>Firnanda Ifitah Dewi Antono, Satrio Agung Wicaksono, Aryo Pinandito</i>	94-103
Automation Of Independent Path Searching using Depth First Search <i>Achmad Arwan, Denny Sagita</i>	104-112