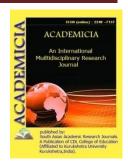


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A REVIEW PAPER ON WORKFLOW SCHEDULING USING **CRYPTOGRAPH**

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ABSTRACT

Cloud computing is a fast-growing technology that allows businesses to use on-demand computer and data services on a daily basis. The most significant contribution is the development of a new genetic algorithm model for workflow planning. One of the major issues here is the scientific planning of large activities in a heterogeneous cloud environment. Other public cloud computing issues are equally significant. These include meeting customer service quality requirements including scalability and reliability, as well as optimizing resource user use rates. Workflow Scheduling is primarily concerned with job assignment in order to achieve the required workload balance while making the greatest use of available resources. Specific workflow planning problems in the cloud computing sector should be addressed by providing various pay-on-demand and cloud-based services that meet the relevant performance criteria and system structure distribution. This paper proposes a novel paradigm for combining cloudcomputing resources with local computing components. The finished-time calendar algorithm is at the heart of this system, balancing the performance of the application schedule with the expenses of utilizing cloud resources. The testing and comparisons with other methods revealed the potential benefits of our proposed algorithm.

KEYWORDS: Cloud computing, Cyber-Physical, Cloud Systems, Dependability, Workflow scheduling,

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ACADEMICIA

REFERENCES

- 1. F. Wu, Q. Wu, and Y. Tan, "Workflow scheduling in cloud: a survey," J. Supercomput., 2015, doi: 10.1007/s11227-015-1438-4.
- **2.** Sandra V. B. Jardim*, "The Electronic Health Record and its Contribution to Healthcare Information Systems Interoperability," *Procedia Technol.*, 2013.
- **3.** M. Tao, S. Dong, and L. Zhang, "A multi-strategy collaborative prediction model for the runtime of online tasks in computing cluster/grid," *Cluster Comput.*, 2011, doi: 10.1007/s10586-010-0145-4.
- **4.** S. D. Verifier and A. H. Drive, "Simulink ® Verification and Validation TM Reference," *ReVision*, 2015.
- **5.** S. Committee, *IEEE Standard for Software Verification and Validation IEEE Standard for Software Verification and Validation*. 1998.
- 6. M. Masdari, S. ValiKardan, Z. Shahi, and S. I. Azar, "Towards workflow scheduling in cloud computing: A comprehensive analysis," *Journal of Network and Computer Applications*. 2016, doi: 10.1016/j.jnca.2016.01.018.
- 7. E. K. Byun, Y. S. Kee, J. S. Kim, and S. Maeng, "Cost optimized provisioning of elastic resources for application workflows," *Futur. Gener. Comput. Syst.*, 2011, doi: 10.1016/j.future.2011.05.001.
- **8.** M. Bobaru, M. Borges, M. d'Amorim, and C. S. Păsăreanu, *NASA formal methods : third international symposium, NFM 2011, Pasadena, CA, USA, April 18-20, 2011 : proceedings.* 2011.
- **9.** Y. Zhang, "A foundation for the design and analysis of robotic systems and behaviors," 1994.
- **10.** S. Smanchat and K. Viriyapant, "Taxonomies of workflow scheduling problem and techniques in the cloud," *Futur. Gener. Comput. Syst.*, 2015, doi: 10.1016/j.future.2015.04.019.