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# Analysis model in the cloud optimization consumption in pricing the internet bandwidth

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## Abstract

The problem of internet pricing is a problem that is often a major problem in optimization. In this study, the internet pricing scheme focuses on optimizing the use of bandwidth consumption. This research utilizes modification of cloud model in finding optimal solution in network. Cloud computing is computational model which is like network, server, storage and service that is utilizing internet connection. As ISP's Internet service provider requires appropriate pricing schemes in order to maximize revenue and provide quality of service (Quality on Service) or QoS so as to satisfy internet users or users. The model used will be completed with the help of LINGO software program to get optimal solution and accurate result. Based on the optimal solution obtained from the modification of the cloud model can be utilized ISP to maximize revenue and provide services in accordance with needs and requests. Copyright © 2018 Institute of Advanced Engineering and Science. All rights reserved.

## Author keywords

Cloud computing; Internet pricing; LINGO

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Improving the models of internet charging in single link multiple class QoS networks





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## References (20)

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- 
- 1 Maryono, Y., Istiana, B.P.  
(2008) *Teknologi Informasi Dan Komunikasi*. Cited 2 times.  
A. B. Darmadi, Ed
- 
- 2 Sidharta, L.  
(1996) *Internet Informasi Bebas Hambatan*  
Jakarta, Elex Media Komputindo
- 
- 3 Byun, J., Chatterjee, S.  
A Strategic Pricing for Quality of Service (QoS) Network Business  
  
(2004) *10th Americas Conference on Information Systems, AMCIS 2004*, pp. 2561-2572. Cited 16 times.
- 
- 4 Wallenius, E., Hämäläinen, T.  
Pricing model for 3G/4G networks  
  
(2002) *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC*, 1, art. no. 1046686, pp. 187-191. Cited 18 times.  
ISBN: 0780375890; 978-078037589-5  
doi: 10.1109/PIMRC.2002.1046686  
  
[View at Publisher](#)
- 
- 5 Puspita, F.M., Seman, K., Taib, B.M., Shafii, Z.  
Improved models of internet charging scheme of single bottleneck link in multi QoS networks  
  
(2013) *Journal of Applied Sciences*, 13 (4), pp. 572-579. Cited 15 times.  
<http://scialert.net/qredirect.php?doi=jas.2013.572.579&linkid=pdf>  
doi: 10.3923/jas.2013.572.579  
  
[View at Publisher](#)
- 
- 6 Indrawati, Irmeilyana, Puspita, F.M., Sanjaya, O.  
Internet pricing on bandwidth function diminished with increasing bandwidth utility function  
  
(2015) *Telkomnika (Telecommunication Computing Electronics and Control)*, 13 (1), pp. 299-304. Cited 4 times.  
<http://journal.uad.ac.id/index.php/TELKOMNIKA/article/download/117/pdf/157>  
doi: 10.12928/TELKOMNIKA.v13i1.117  
  
[View at Publisher](#)
-

- 7 Viswanathan, S., Anandalingam, G.  
Pricing strategies for information goods  
(2005) *Sadhana - Academy Proceedings in Engineering Sciences*, 30 (2-3), pp. 257-274. Cited 20 times.  
<http://www.springer.com/engineering/journal/12046>  
doi: 10.1007/BF02706247  
View at Publisher
- 
- 8 Wang, X., Schulzrinne, H.  
Pricing network resources for adaptive applications in a differentiated services network  
(2001) *Proceedings - IEEE INFOCOM*, 2, pp. 943-952. Cited 87 times.
- 
- 9 Yang, W., Owen, H., Blough, D.M.  
A comparison of auction and flat pricing for differentiated service networks  
(2004) *IEEE International Conference on Communications*, 4, pp. 2086-2091. Cited 13 times.
- 
- 10 Yang, W., Owen, H.L., Blough, D.M.  
Determining differentiated services network pricing through auctions  
(2005) *Networking-ICN 2005, 4th International Conference on Networking April 2005*. Cited 6 times.
- 
- 11 Roy, S., Pattnaik, P.K., Mall, R.  
A cognitive approach for evaluating the usability of storage as a service in cloud computing environment  
(2016) *International Journal of Electrical and Computer Engineering*, 6 (2), pp. 759-769. Cited 12 times.  
<http://iaesjournal.com/online/index.php/IJECE/article/view/8596/4514>  
doi: 10.11591/ijece.v6i2.8596  
View at Publisher
- 
- 12 Chennam, K.K., Akka Lakshmi, M.  
Cloud security in crypt database server using fine grained access control  
(2016) *International Journal of Electrical and Computer Engineering*, 6 (3), pp. 915-924. Cited 3 times.  
<http://www.iaescore.com/journals/index.php/IJECE/article/view/444/319>  
doi: 10.11591/ijece.v6i3.8925  
View at Publisher
- 
- 13 Sasidhar, T., Havisha, V., Koushik, S., Deep, M., Krishna Reddy, V.  
Load balancing techniques for efficient traffic management in cloud environment  
(2016) *International Journal of Electrical and Computer Engineering*, 6 (3), pp. 963-973. Cited 14 times.  
<http://www.iaescore.com/journals/index.php/IJECE/article/view/449/324>  
doi: 10.11591/ijece.v6i3.7943  
View at Publisher
-

- 14 Ranjan, M., Mondal, A.H., Saikia, M.  
A cloud based secure voting system using homomorphic encryption for android platform  
  
(2016) *International Journal of Electrical and Computer Engineering*, 6 (6), pp. 2994-3000. Cited 8 times.  
<http://iaescore.com/journals/index.php/IJECE/article/view/5916/5578>  
doi: 10.11591/ijece.v6i6.11972  
  
View at Publisher
- 
- 15 Kumar, V., Grama, A., Gupta, A., Karypis, G.  
(1994) *Introduction to Parallel Computing*, 110.
- 
- 16 Agrawal, D., Das, S., Abbadi, A.E.  
Big data and cloud computing: Current state and future opportunities  
(2011) *14th International Conference on Extending Database Technology*. Cited 59 times.  
ACM
- 
- 17 Petrucci, V., Loques, O., Mossé, D.  
A dynamic optimization model for power and performance management of virtualized clusters  
  
(2010) *Proceedings of the e-Energy 2010 - 1st Int'l Conf. on Energy-Efficient Computing and Networking*, pp. 225-233. Cited 45 times.  
ISBN: 978-145030042-1  
doi: 10.1145/1791314.1791350  
  
View at Publisher
- 
- 18 Hou, E.S.H., Ansari, N., Ren, H.  
A genetic algorithm for multiprocessor scheduling, parallel and distributed systems  
(2014) *International Journal of Grid and Distributed Computing*, 7.
- 
- 19 Varalakshmi, P., Ramaswamy, A., Balasubramanian, A., Vijaykumar, P.  
An optimal workflow based scheduling and resource allocation in cloud ([Open Access](#))  
  
(2011) *Communications in Computer and Information Science*, 190  
CCIS (PART 1), pp. 411-420. Cited 48 times.  
ISBN: 978-364222708-0  
doi: 10.1007/978-3-642-22709-7\_41  
  
View at Publisher
- 
- 20 Pandey, S., Wu, L., Guru, S., Buyya, R.  
*A Particle Swarm Optimization-Based Heuristic for Scheduling Workflow Applications in Cloud*. Cited 21 times.

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