JATIT PAPER EVALUATION FORM-II

Paper Number: 42891-JATIT

Note: Copies of the completed evaluation form and comments will be supplied to the author(s)
Please return your review results to the Chief Editor after blind peer review. Thank You.

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Paper Title: LARGE-SCALE IMAGE EDGE DETECTION USING HIGH-PERFORMANCE COMPUTING CLUSTER

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EVALUATION: (please circle the appropriate rating)

	Tend to reject | Tend to accept									
Technical Content and Accuracy	1	2	3	4	5	**6**	7	8	9	10
Significance of the Work	1	2	3	4	5	**6**	7	8	9	10
Appropriate Title, Introduction, and Conclusion	1	2	3	4	5	**6**	7	8	9	10
Overall Organization	1	2	3	4	5	**6**	7	8	9	10
Appropriateness for JATIT	1	2	3	4	5	6	7	8	**9**	10
Style and Clarity of the Paper	1	2	3	4	5	**6**	7	8	9	10
Connection to Previous Research	1	2	3	4	5	**6**	7	8	9	10
OVERALL RECOMMENDATION	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
As a Referee how do you rate your knowledge, ability and confidence in reviewing this paper	**1** Low	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10** High

COMMENTS TO AUTHOR: (Please use additional sheet(s) if necessary)

1. Hypothesize the problem clearly in the paper. And reflect on the same in conclusion in light of facts identified
2. Discussion on limitations of the work is missing
3. Difference of research contribution and achievement of objectives when compared to other such studies in light of results presented in literature is missing or is not clear in text.

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Confidential Comments to the Chief Editor:

Evaluation Form

JATIT

Journal of Theoretical and Applied Information Technology

The enclosed manuscript is under consideration for the journal. Please provide feedback on the following criteria so that further process my be initiated

Mark where appropriate	YES	NO
Is it a research or review paper?	X	
Is it within to the scope of the journal?	X	
Is it a full paper submission?	X	
Is the language of paper English? (up to 5% relaxation*)	X	
Will the paper be of interest to Journal readership?	X	
Has the paper or part of it already been published elsewhere? [Based on Google Search on Tile And Abstract]		X

Recommendations: Mark where appropriate.

Rejected After Internal Review	
Accepted After Initial Review and Recommended for Detaied Technical Review	X

*Relaxation is only in special case where use of any other language is curtail to work presented (Either in tables/ figures or text)

Reply TO REVIEWER COMMENTS AND CHANGE LOG

Note: Indicate the updates of changes in the manuscript in red colour font so that changes/updates are easy to track.

S.No	Comment	Reply to Comment / Change Description	Page No.
1)	Hypothesize the problem clearly in the paper. And reflect on the same in conclusion in light of facts identified	Therefore, this research aims to solve the problem of real-time edge detection processing in large pixel images using HPC and to know the performance of the PC-Cluster against the detection technique The PC-Cluster processing speed on a 1000Mbps switch is 55.53% faster than a 100Mbps switch. At the same time, the maximum performance of the PC-Cluster in the experiment was 3.657E + 00.	1 13
2)	Discussion on limitations of the work is missing	To the best of our knowledge, no one has performed edge detection testing on images using PC-Cluster. Only [13] used PC-Cluster to perform clustering of MRI objects. The PC-Cluster is built to reduce computation time. This is proven by the collaboration of low computer resources that can produce extraordinary performance. The PC-Cluster we build is limited to computer resources, if we want to increase performance, we recommend using a 1000Mbps switch and upgrading the PC-Cluster such as RAM and Processor.	13
3)	Difference of research contribution and achievement of objectives when compared to other such studies in light of results presented in literature is missing or is not clear in text	The computer cluster configuration used by [12] is two computer clusters connected to each other using a wide area network with a bandwidth of 10Gbps. Meanwhile, computer cluster [13] uses 4 PC-Cluster collaboration with Pentium IV 2.6 GHz CPUs and 256 MB RAM. Each computer is connected to the FastEthernet TCP / IP network. According to CPU Benchmark (a website that provides benchmark information against CPU, RAM, Video Card, Hard Drive, Android and IOS / iPhone), the PC-Cluster specifications	2

		we use are better than the PC-Cluster specifications used by [13].	
4)			
5)			
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