

Certificate of the Best Paper Award

ISAAC 2001

This is to certify that the paper

Computing the Quartet Distance between Evolutionary Trees in Time $O(n \log^2 n)$

By

*Gerth Stølting Brodal, Rolf Fagerberg and Christian Nørgaard Storm Pedersen
was selected as the best paper*

at

*The Twelfth Annual International Symposium on Algorithms and Computation
(ISAAC 2001)*

19-21 December 2001, Christchurch, New Zealand

Tadao Tokaoka

*Tadao Tokaoka
ISAAC 2001 Programme Committee Co-Chair*

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Best Paper Award at ISAAC 2001

The best paper award is given to

Computing the Quartet Distance in Time $O(n \log^2 n)$ by
Gerth Stolting Brodal, Rolf Fagerberg, and Christian Norgaard Storm Pedersen.

Reason: The paper made a significant progress from the previous time bound of $O(n^2)$ for this problem. The solution is neat and elegant. The use of dynamic tree labeling, which has been used in dynamic expression trees, in this particular area is interesting and important. As the area of algorithms expands and diversifies, it is hard for us to overview the whole area. There are many branches of algorithm research. Yet the authors showed an example of transplanting a technique in a branch into another branch. Thus we are encouraged to get ourselves acquainted with several new areas of algorithm research.

There is some history of the research in this area at our University of Canterbury. In fact, the algorithmic approach to computing the quartet distance has been active on our campus, and it is pleasing to see that some improvements are done in this area. We sincerely hope that further developments will be done in this area in the future.

Tadao Takaoka
Program Co-Chair