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**Special Issue on Selected Papers
from the Sixth International Workshop
on Algorithms and Computation,
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*Shin-ichi Nakano*¹

¹Department of Computer Science, Gunma University, Kiryu 376-8515, Japan

This special issue of Journal of Graph Algorithms and Applications (JGAA) includes full journal versions of the papers selected from the papers presented at the sixth International Workshop on Algorithms and Computation (WALCOM 2012) held in Dhaka, Bangladesh during February 15-17, 2012. Only a few papers among the highly-ranked ones were invited for the special issue based on their merits and relevance to JGAA. The invited papers have gone through the standard refereeing process of JGAA to ensure high publication standards. The special issue is a nice collection of the advances and trends of research in graph algorithms and their applications. Preliminary versions of the papers have appeared in the conference proceedings published by Springer, Lecture Notes in Computer Science, Vol.7157.

The first paper *Universal Line-Sets for Drawing Planar 3-Trees* by Hossain, Mondal, Rahman and Salma shows any planar 3-tree has a plane drawing such that each edge is a straight line segment, and each vertex is on a small number of parallel lines.

The second paper *Triangle-Free Outerplanar 3-Graphs are Pairwise Compatibility Graphs* by Salma, Rahman and Hossain shows a new relation for graph classes. They show some class of graphs are pairwise compatibility graphs.

The third paper *Drawing Unordered Trees on k -Grids* by Bachmaier and Matzeder gives new area bounds for drawings of trees on the grid.

The last paper *Parameterized Algorithms for (r, ℓ) -Partization* by Krithika and Narayanaswamy gives a new fixed-parameter tractability results for the (r, ℓ) -partization problem.

Many thanks go to the authors for contributing their high-quality papers, to the reviewers for their excellent work that led to further improvements, and to the Editors of the Journal of Graph Algorithms and Applications for making this special issue possible.