











we conclude that the solution of the original problem is unbounded by the relationship of the primal and dual problem.

## VI. CONCLUSION

The proposed technique can identify a solution to a homogeneous linear programming problem by considering a linear combination of all constraints in a standard form. For the largest coefficient of the linear combination of all constraints is negative or only one zero, the solution is trivial. If the largest and the smallest coefficients are positive, the solution is also trivial. We can answer the solution of the homogeneous problem quickly. Thus, the computations can be reduced extremely. But another case cannot identify the solution promptly, we use the dual problem for finding the solution of the original problem. For this case, we still waste time for constructing the basic variable set at the beginning, then the solution of the original problem can be reported. Thus, it is slowly for identifying the solution. However, the degeneracy cannot occur.

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University.

**Tanchanok Phumrachat** was born in Angthong, Thailand, in 1997. She received the B.Sc. degree in mathematics from Thammasat University, Pathumthani, Thailand, in 2015. Now she is studying the M.Sc. degree in mathematics from Thammasat



Aua-aree Boonperm was born in Surin, Thailand, in 1981. She received the B.Sc. degree in Mathematics from Khon Kaen University, Thailand, in 2004, M.Sc. degree in Computational Science from Chulalongkorn University, Thailand, in 2007, and Ph.D. degree in Applied Mathematics and Computational science from Chulalongkorn University, Thailand, in 2014.

Now she works at the Department of Mathematics and Statistics, Faculty of Science and Technology, Thammasat University. Her current research interests include Linear Programming, Operations Research, and Optimization.