

Errata for “Use of Primal-Dual Technique in the Network Algorithm for Two-Way Contingency Tables”

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In the paper, “Use of Primal-Dual Technique in the Network Algorithm for Two-Way Contingency Tables” by T. Suzuki, S. Aoki, and K. Murota that appeared in Volume 22 of *Japan Journal of Industrial and Applied Mathematics* (2005: pages 133–145) [1] and METR 2004-28 [2], some p -values in Table 1 are incorrect. Table 1 should be replaced by the following table, as indicated by underlines.

Problems	Contingency table	p -value	CPU time (s)	
			Our algorithm	FEXACT
1	0 2 3 4 1 1 4 5 0 4 4 2 3 0 2 4 5 4 2 4 3	0.2599	0.035	0.036
2	3 0 4 0 2 0 5 3 0 1 5 0 2 2 2 2 0 1 0 3 0 0 4 1	0.0116	0.059	0.060
3	8 3 3 2 2 1 3 8 9 1 1 2 2 1 2 3 7 3 3 1 0 1 0 3 1 0 2 1	0.0460	4.739	4.708
4	2 1 0 2 3 1 2 2 1 2 3 2 2 1 0 0 2 1 2 1 0 1 2 2 1 0 0 1 0 0 0 3 0 1 0 1 1 2 1 0 0 0	0.8296	0.748	1.001
5	7 15 2 1 0 2 1 9 0 3 2 1 0 1 2 3 2 2 2 0 1 1 1 1 3 2 2 1 3 1 1 3 0 3 3	0.0004	232.524	232.606
6	3 3 2 3 3 1 0 1 2 1 2 1 0 0 0 3 0 0 1 0 1 2 2 3 0 3 2 0 1 3 3 2 2 3 0 2 0 2 3 2 2 0 2 0 1 2 2 2 1 1 0 1 2 0 0 1	<u>0.4375</u>	835.306	840.291
7	2 3 0 3 0 0 1 3 0 0 3 1 0 1 2 1 0 1 1 1 1 3 2 3 1 1 2 3 2 3 1 3 1 2 3 0 0 1 0 3 2 0 2 1 2 0 1 2 0 0 0 0 1 2 1 2	<u>0.6315</u>	188.567	198.416
8	3 1 3 1 3 3 0 0 1 2 0 2 1 1 0 1 0 2 0 3 0 3 0 0 3 1 0 0 1 3 3 3 3 0 1 1 2 1 0 3 0 0 2 0 1 0 1 1 0 1 1 0 0 2 0 2	<u>0.1167</u>	171.598	176.218
9	1 3 3 1 0 1 0 3 1 4 2 1 3 1 1 3 2 1 3 0 1 3 0 3 0 1 2 1 2 5 6 3 2 0 0 1 2 6 0 2 0 0 2 1 0 0 2 0 2 0 2 0 0 1 0 2	<u>0.0744</u>	5473.700	5511.070

References

- [1] T. Suzuki, S. Aoki, and K. Murota: Use of primal-dual technique in the network algorithm for two-way contingency tables. *Japan Journal of Industrial and Applied Mathematics*, **22(1)** (2005), 133–145.
- [2] T. Suzuki, S. Aoki, and K. Murota: Use of primal-dual technique in the network algorithm for two-way contingency tables. METR 2004-28, Department of Mathematical Informatics, University of Tokyo, 2004.