ERRATUM

PRINCIPAL STRUCTURE OF SUBMODULAR SYSTEMS AND HITCHCOCK-TYPE INDEPENDENT FLOWS

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A recent paper of mine [1] contains an error, which is not critical to the main result but still may confuse the readers. I would like to apologize this sincerely and show how to fix it.

In Section 4.3, Corollary 4.8 and its proof should be replaced as follows.

Corollary 4.8. *For any $X_1, X_2 \subseteq S$ and $y \geq 0$ it holds that*

$$f(X_1) + f_{\langle y \rangle}(X_2) \geq f(X_1 \cap X_2) + f_{\langle y \rangle}(X_1 \cup X_2).$$

Proof. It follows from Lemma 4.7 and the monotonicity of σ that

$$\sigma^\#(\Gamma_T(X_1)) + \sigma_{\langle y \rangle}^\#(\Gamma_T(X_2)) \geq \sigma^\#(\Gamma_T(X_1 \cap X_2)) + \sigma_{\langle y \rangle}^\#(\Gamma_T(X_1 \cup X_2)),$$

which together with the supermodularity of $\varrho^\#$, completes the proof. ■

This statement is more restrictive than the original version, but is sufficient to derive Lemma 4.9. Hence the proof of the main theorem remains valid.

References

- [1] S. IWATA: Principal structure of submodular systems and Hitchcock-type independent flows, *Combinatorica*, **15** (1995), 515–532.

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