

## Errata and Supplements to

**Kazuo Murota and Akiyoshi Shioura:**  
**“M-Convex Function on Generalized Polymatroid”**  
**Mathematics of Operations Research, 24 (1999) 95–105**

- Page 96, two lines from bottom (inequality in  $(M^{\natural}\text{-EXC}_{\mathbf{W}})$ ): Should read,

$$f(x) + f(y) \geq \min \left[ \begin{array}{l} \min_{u \in \text{supp}^+(x-y)} \{f(x-\chi_u) + f(y+\chi_u)\}, \\ \min_{\substack{u \in \text{supp}^+(x-y) \\ v \in \text{supp}^-(x-y)}} \{f(x-\chi_u+\chi_v) + f(y+\chi_u-\chi_v)\} \end{array} \right].$$

- Page 99, the first paragraph in Section 4: the second and the third “ $\forall$ ” symbols in  $(M\text{-EXC}_{\mathbf{W}})$  should be “ $\exists$ .” That is, the condition  $(M\text{-EXC}_{\mathbf{W}})$  should be as follows:

$$(M\text{-EXC}_{\mathbf{W}}) \quad \forall x, y \in \text{dom } f \text{ with } x \neq y, \exists u \in \text{supp}^+(x-y), \exists v \in \text{supp}^-(x-y) \text{ such that } f(x) + f(y) \geq f(x-\chi_u+\chi_v) + f(y+\chi_u-\chi_v).$$

- Page 99, two lines from bottom (inequality in  $(M^{\natural}\text{-EXC}_{\text{pw}})$ ): Should read,

$$f(x) + f(y) \geq \min \left[ \begin{array}{l} \min_{u \in \text{supp}^+(x-y)} \{f(x-\chi_u) + f(y+\chi_u)\}, \\ \min_{\substack{u \in \text{supp}^+(x-y) \\ v \in \text{supp}^-(x-y)}} \{f(x-\chi_u+\chi_v) + f(y+\chi_u-\chi_v)\} \end{array} \right].$$

(end)