

Erratum to the Ph.D. thesis
 “Aggregation Operators for Multicriteria Decision Aid”
 by Jean-Luc Marichal

- Page 2, line -13: “In order to avoid a heavy notation”
- Page 5, line -5: “in more detail”
- Page 6, line 11: “the formulation”
- Page 8, Eq. (1.12) : “ $M(u_1(x_1^a), \dots, u_n(x_n^a))$ ”
- Page 19, line 14: “which is”
- Page 23, Definitions 2.2.18–2.2.20 : “comonotonic vectors $x, x' \in E^n$.”
- Page 38, line 15: Replace “in the sequel” with “as we continue”. Idem page 48 line 7, page 59 line 5, page 137 line 9–10, page 140 line -3.
- Page 38, line 18: “for all $x, y \in [a, b]$ ”.
- Page 48, line 11: “all $x \in [a, b]^n$ ”.
- Page 65, line 14: “which cover \mathbb{R}^n ” instead of “which partition \mathbb{R}^n ”.
- Page 65, Definition 3.4.1 : Since the function $B_c^{\vee\wedge}$ is defined in \mathbb{R}^n , its first expression given in line 9 is not correct. Instead, we just write

$$B_c^{\vee\wedge}(x) = \bigvee_{\substack{T \subseteq N \\ c_T=1}} \bigwedge_{i \in T} x_i.$$

- Page 66, idem in line 3. We just write

$$\bigwedge_{\substack{T \subseteq N \\ d_T=0}} \bigvee_{i \in T} x_i.$$

- Page 87, line 16: “Here we follow...” instead of “In the sequel, we follow...”
- Page 88, line 17: “From now on...” instead of “In the sequel...”. Idem page 204 line 13, page 217 line -4.
- Page 96, Lemma 4.2.3: “and if $\theta_S \in \{0, 1\}$ ” instead of “and if $\theta_S \in \{0, 1\}^n$ ”

- Page 98, line -8: Replace ‘,’ with ‘.’
- Page 116, line -16: The displayed formula should be

$$\text{owmin}_{\omega'}(x) = \bigwedge_{i=1}^n (\omega'_i \vee x_{(i)}), \quad x \in [0, 1]^n.$$

- Page 143, Eqs. (5.49) and (5.50): Replace ‘;’ with ‘.’
- Page 149, line 3: “With a matrix notation, this...”
- Page 149, line 8: “correspondence”
- Page 160, line 3: “in more detail”
- Page 181, line -11: “the conversion formulas”. Idem page 183 line 14, page 185 line -9, page 185 line -6, page 186 line -11, page 202, line -8.
- Page 197, line -10: “strictly concave function”
- Page 199, line 14: “all $x, x' \in [0, 1]^n$ ”
- Page 199: Theorem 6.5.1 and its proof are not correct. The correct version can be found in: J.-L. Marichal, An axiomatic approach of the discrete Sugeno integral as a tool to aggregate interacting criteria in a qualitative framework, *IEEE Transactions on Fuzzy Systems* 9 (1) (2001) 164–172. (see Theorems 3.1 and 3.2).
- Page 217, line 5: “Using the notation”