

ERRATA
**Classification Functions for Machine
Learning and Data Mining**

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March 16, 2024

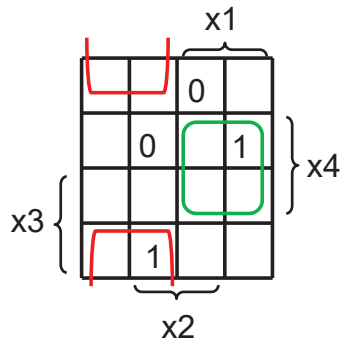
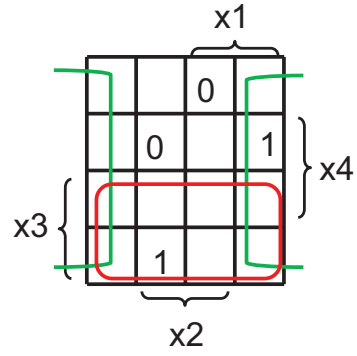
Table 6.5 The set of difference vectors for the function in Table 2.3

x_1	x_2	x_3	x_4	TAG
0	0	0	1	(1, 5)
0	1	1	1	(1, 6)
0	1	0	0	(1, 7), (2, 8)
1	1	1	0	(1, 8), (2, 7), (3, 6)
1	0	1	1	(2, 5), (4, 6)
1	1	0	1	(2, 6), (3, 7), (4, 5)
1	0	0	0	(3, 5), (4, 7)
0	1	1	1	(3, 8)
0	0	1	0	(4, 8)

Table 6.6 The set of difference vectors after linear transformation

$$y_1 = x_1 \oplus x_2.$$

y_1	x_3	x_4	TAG
0	0	1	(1, 5)
1	1	0	(1, 6)
1	0	0	(1, 7)
0	1	0	(1, 8)
1	1	1	(2, 5)
0	0	1	(2, 6)*
1	0	0	(3, 5)*
1	1	1	(3, 8)*
0	1	0	(4, 8)*

Fig. 9.3 SOP for $f: \mathcal{F}_1$.Fig. 9.4 SOP for $f: \mathcal{F}_2$.

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- Any two-class function can be represented with at most $\lceil \log_2(k_0 k_1 + 1) \rceil$ compound variables (Theorem 6.2.2).