## Errata

## Errata to "Optimal Conflict-Avoiding Codes of Even Length and Weight 3"

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- In [1], the following corrections are necessary.
- a) In the proof of Lemma 2.4 (p. 5751), for the case  $s \equiv 3 \pmod{4}$ ,  $F = \{4s 5, 4s 3\}$  and  $s \geq 7$ ,

$$4s - 4$$
 in  $(3, 4n - 1)$ 

should be read

$$4s - 4$$
 in  $(3, 4s - 1)$ .

b) In the proof of Lemma 2.5 (p. 5751), for the case  $s \equiv 0 \pmod{4}$  and  $s \geq 8$ ,

$$4 \text{ in } (3s - 11, 3s - 7)$$

should be replaced by

$$4 \text{ in } (3s - 7, 3s - 3).$$

c) In Construction 3.1 (p. 5753):

$$\begin{aligned} \Delta_2(C_o) &= \{2i-1: (n+4)/8+1 \le i \le n/4\} \\ &\cup \{4i-2: (n+4)/8+1 \le i \le n/4\} \\ \Delta_2(C_d) &= \{4i: (n+28)/32+1 \le i \le (n-4)/16\} \\ &\cup \{8i: (n+28)/32+1 \le i \le (n-4)/16\} \end{aligned}$$

should be replaced by

$$\begin{split} \Delta_2(C_o) &= \{2i-1: (n+4)/8 + 1 \le i \le n/4\} \\ &\cup \{4i-2: 1 \le i \le (n-4)/8\}, \\ \Delta_2(C_d) &= \{4i: (n+28)/32 \le i \le (n-4)/16\} \\ &\cup \{8i: (n+28)/32 \le i \le (n-4)/16\}. \end{split}$$

d) In Construction 3.1 (p. 5753):

$$\Delta_2(N_{od})$$

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Communicated by N. Kashyap, Associate Editor for Coding Theory. Digital Object Identifier 10.1109/TIT.2011.2107878  $= \{2i - 1 : 1 \le i \le (n - 4)/8 - 1, i \ne (n + 12)/16\}$   $\cup \{4i : 1 \le i \le (n - 4)/32\}$  $\cup \{8i - 4 : (n + 28)/32 \le i \le (n - 4)/16\}.$ 

should be replaced by

$$\begin{split} \Delta_2(N_{od}) &= \{2i-1: 1 \leq i \leq (n-4)/8\} \\ &\cup \{4i: 1 \leq i \leq (n-4)/32\} \\ &\cup \{8i-4: (n+28)/32 \leq i \leq (n-4)/16\}. \end{split}$$

- e) In Construction 3.3 (p. 5754), all the congruent expressions  $m \equiv 1, 37 \pmod{96}$ ,  $m \equiv 13 \pmod{96}$  and  $m \equiv 25 \pmod{96}$  should be read as modulo 48.
- f) In Construction 3.4 (p. 5754), a codeword  $\{0, c, n/2-2\}$  in  $N_{od}$  should be replaced by  $\{0, c, n/2 3 + c\}$ .
- g) In Construction 3.6 (p. 5754), the sentence (3.6) for  $1 \le i \le \lfloor (n-20)/64 \rfloor 1$  should be read (3.6) for  $1 \le i \le \lceil (n-20)/64 \rceil 1$ .
- h) In Construction 3.7 (p. 5754), the sentence  $C_d$  be the set of (3.7) for  $1 \le i \le (n-20)/32$  should be replaced by  $C_d$  be the set of

$$\{0, n/4 - 1 - 4i, n/2 - 2 - 8i\}, 1 \le i \le (n - 20)/32.$$

i) In Construction 3.8 (p. 5755),

$$\{0, (n-4)/16 + 6, (n-4)/8 + 12\}\{0, n/6 + 1, n/3 + 2\}$$
 (3.9)

should be read

$$\{0, (n-4)/16 + 6, (n-4)/8 + 12\},\$$
  
$$\{0, n/6 + 1, n/3 + 2\}$$
(3.9)

so that (3.9) may indicate only  $\{0, n/6 + 1, n/3 + 2\}$ . j) In Construction 3.8 (p. 5755),

$$\{0, (n-4)/16 - 4, n/2 - 10\}, \{0, n/3 - 1, n/2 - 2\}$$
 (3.11)

should be read

$$\{0, (n-4)/16 - 4, n/2 - 10\}, \{0, n/3 - 1, n/2 - 2\},$$
(3.11)

so that (3.11) may indicate only  $\{0, n/3 - 1, n/2 - 2\}$ .

k) In Construction 3.10 (p. 5755), a codeword  $\{0, c, n/2 - 2\}$  in  $N_{od}$  should be replaced by  $\{0, c, n/2 - 3 + c\}$ .

## References

 H.-L. Fu, Y.-H. Lin, and M. Mishima, "Optimal conflict-avoiding codes of even length and weight 3," *IEEE Trans. Inf. Theory*, vol. 56, pp. 5747–5756, Nov. 2010.