



# Retraction Note to: On the Minimum the Sum-of-Squares Indicator of a Balanced Boolean Function

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**Retraction Note to:**  
**Chapter “On the Minimum the Sum-of-Squares Indicator  
of a Balanced Boolean Function” in: Q. Chen et al. (Eds.):  
*Communications and Networking*, LNICST 210,  
[https://doi.org/10.1007/978-3-319-66628-0\\_30](https://doi.org/10.1007/978-3-319-66628-0_30)**

The authors are retracting this article [1] because following its publication a number of errors affecting the validity of the results have come to light.

Specifically

- 1) The result of **Theorem 1** is error. See Page 317.
- 2) The analysis of **Remark 1** is not correct, we cannot obtain the following fact: See Page 320 in Remark 1.

“It is because  $wt(f_1 f_2) = 2^{n-3}$  or  $2^{n-3} - 1$ . It implies that  $wt(f_1) > = 2^{n-3} - 1$  and  $wt(f_2) > = 2^{n-3} - 1$ ”. This fact is error, Thus Corollary 1 is not correct.

- 3) The result of **Corollary 1** is error. See Page 320.

[1] [https://doi.org/10.1007/978-3-319-66628-0\\_30](https://doi.org/10.1007/978-3-319-66628-0_30)

All authors agree to this retraction.

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The retracted version of this chapter can be found at  
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