RETRACTED ARTICLE: Cartesian vector-based directional nonparametric fuzzy filter for random-valued impulse noise removal

Ayyaz Hussain^{1,2} · Muhammad Habib¹ · Muhammad Ramzan²

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The authors have retracted this article because it has been previously published in Multimedia Tools and Applications [Hussain, A. & Habib, M. (2017) A new cluster based adaptive fuzzy switching median filter for impulse noise removal Multimed Tools Appl DOI [10.1007/s11042-017-4757-z](https://doi.org/10.1007/s11042-017-4757-z)]. All authors have agreed to this retraction. The online version of this article contains the full text of the retracted article as electronic supplementary material.

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✉ Ayyaz Hussain
ayyaz.hussain@iiu.edu.pk

Muhammad Habib
mhabibakhtar@gmail.com

Muhammad Ramzan
m.ramzan@seu.edu.sa

¹ Department of Computer Science and Software Engineering, International Islamic University, Islamabad, Pakistan

² College of Computing and Informatics, Saudi Electronic University, Riyadh, Kingdom of Saudi Arabia