



CORRECTION

Correction: Breast Calcifications and Histopathological Analysis on Tumour Detection by CNN

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Published: 20 May 2024

In the article “Breast Calcifications and Histopathological Analysis on Tumour Detection by CNN” by D. Banumathy, Osamah Ibrahim Khalaf, Carlos Andrés Tavera Romero, P. Vishnu Raja and Dilip Kumar Sharma (*Computer Systems Science and Engineering*, 2023, Vol. 44, No. 1, pp. 595–612. DOI: 10.32604/csse.2023.025611), some references were wrongly cited.

The authors wish to apologize for any inconvenience caused by this error. Please check the following updates,

Original Content/Reference:

1. Delete references [7], [22], [23], [25–28], [31–39], [42–47], [49], [51], [55–68], [70]

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2. Delete content referencing References [7], [22], [23], [25–28], [31–39], [42–47], [49], [51], [55–68], [70] in the main text:

“The estimated number of people diagnosed with cancer would rise much more in the following years, hitting roughly 50% in 2040 than 2020 [5–9].”

“In mammography diagnostics, accurate abnormality diagnosis is critical. EBCD can make a significant difference in a patient’s long-term survival rate [20–21].”

“Microcalcification is tiny and has poor contrast with the mammography background because of its small size and low contrast, and It is sometimes challenging and time-consuming, which requires the radiologist to do a thorough assessment of microcalcifications [22–23].”

“The goal is to enhance CNN’s Discriminative Localization capacity to detect hazardous microcalcification zones in mammograms by applying Class Activation Mapping (CAM).”

“Gray Level Co-occurrence Matrix, and Curvelet Transform takes utilization of the positive characteristics of several extractors of characterization; the cumulated feature is demonstrated to be efficacious in the biopsy picture relegation challenge [24].”

“Medical diagnostic functions, for example, demand a high caliber of precision and dependability; as a result, the repudiation thresholds at each step would be set to a high caliber to ascertain that the diagnosis is proper [25].”

“This footage shows ebony backgrounds with thick white patches, possibly calcifications/masses [26–27].”

“Biopsies include removing cells or a tiny amount of breast tissue and sending it to a lab for pathologists to analyse in order to acquire conclusive results [28–30].”

“However, semi-supervised learning and Reinforcement Learning (RL) are irrelevant to the purpose of BCDD.”

“The method was evaluated on 322 mammography pictures from the MIAS database, yielding 94.59% sensitivity and 3.90% false positives per image data set.”

“Furthermore, the technique was tested 260 mammogram masses accumulated from the Dokuz Eylul Mammography Set (DEMS), and it attained 95.06% [31].”

“This network is benign since it requires less human labour and pre-processing [32].”

“As a result, early detection of breast cancer can be obtained by authorizing it to be treated at an inferior stage before it further spreads [33–34].”

The authors state that the scientific conclusions are unaffected. This correction was approved by the Computer Systems Science and Engineering Editorial Office. The original publication has also been updated.