



CORRECTION

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

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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](https://doi.org/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.