Independent Component Analysis Applied to the Detection of Early Breast Cancer Signs (2007)

TÃ-tulo:Independent Component Analysis Applied to the Detection of Early Breast Cancer Signs (2007)Autores: RamÃ³n Gallardo Caballero, Carlos J. GarcÃ-a Orellana, Horacio GonzÃ¡lez Velasco, Miguel MacÃ-as MacÃ-asRevista:Â Lectures Notes in Computer ScienceVol./Pag.:Â 4505, 988-995Ed./AÃ±o:Â SpringerÂ (Alemania), 2007DOI: 10.1007/978-3-540-73007-1_119 Abstract: This work evaluates the efficiency of Independent Component Analysis in conjunction with neural network classifiers to detect microcalcification clusters in digitized mammograms, the most important non invasive sign of breast cancer. The widespread Digital Database for Screening Mammography was used as the source for digitized mammograms. The results seem to suggest that this technique is suitable to deal with the noisy mammogram environment.