Dear Sir,

# Enclosed is to be considered for publication in Selcuk University Journal of Engineering, Science and Technology. The research reported in this manuscript which is entitled as “An Automated Computer-Aided Detection (CADe) and Diagnosis (CADx) System for Breast Microcalcifications in Mammograms” is a whole system which includes; identification of suspicious microcalcification (MC) regions, MC/non-MC classification, false-positive reduction and benign/malign classification of MC cluster. With this purpose we used GLCM (Gray Level Co-occurrence Matrix) statistical texture features with multi-layer feedforward neural network for classification, cascade correlation neural network (CCNN) with grey level run length matrix (GLRLM) features for false-positive reduction and GLRLM features with hybrid form of discriminant analysis and SVM methods for benign/malign classification. An open access Mammographic Image Analysis Society (MIAS) database was used for the study. As a result, a novel fully automatic MC detection and diagnosis system has been developed successfully. Finally, this paper is our original unpublished work.

Sincerely,

Assist.Prof.Dr. Burçin KURT