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(57) Abstract :
A system (100) for de-noising medical images comprising: a processor (104) located on an application server (102); a storage medium (106) configured to store programming instructions, wherein the storage medium (106) comprises: a medical image receiving module (114) to receive the medical images from an image source (124); a patient data receiving module (116) to receive patient data from a medical source (126); an image recognition module (118) to recognize features of the received medical images based on a set of pre-defined attributes; an image processing module (120) to process the medical images based on the patient data and the recognized features, wherein the processed medical images are de-noised by employing a set of filters (200a-200n) such that a set of de-noised medical images is obtained; and a quality assessment module (122) to assess a best de-noised medical image using a deep learning technique.

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