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Patent Search

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Abstract:

Disclosed is a system and method to predict rheumatoid arthritis (RA). The system includes one or more processors and non-volatile computer memory. The processors execute a plurality of computer-readable instructions. The non-volatile computer memory stores the computer-readable instructions configured to normalize a rheumatoid arthritis (RA) dataset stored in an arthritis database; split the RA dataset to a training dataset and a testing dataset from the RA dataset; extract a plurality of features by performing a harmonic search; train the extracted features; classify the RA dataset by an Adaptive Neuro-Fuzzy Inference System (ANFIS) model; and predict rheumatoid arthritis (RA) based on the classified RA dataset. The most illustrative drawing: FIG. 2.

Complete Specification

Claims:We claim:

- 1. A system to predict rheumatoid arthritis (RA), the system comprises:
- one or more processors to execute a plurality of computer-readable instructions; and
- a non-volatile computer memory to store the computer-readable instructions configured to: normalize a rheumatoid arthritis (RA) dataset stored in an arthritis database;
- split the RA dataset to a training dataset and a testing dataset from the RA dataset;
- extract a plurality of features by performing a harmonic search;
- train the extracted features;
- classify the RA dataset by an Adaptive Neuro-Fuzzy Inference System (ANFIS) model; and
- predict rheumatoid arthritis (RA) based on the classified RA dataset.
- 2. The system according to claim 1, wherein the non-volatile computer memory is configured to perform the harmonic search by: initializing a harmony by classifying a Harmony Memory Accepting Rate (HMCR) and characterizing a Pitch Adjusting Rate (PAR); evaluating the harmony;
- adding the harmony to a harmony memory (HM);
- undating the harmony memory (HM) if the harmony is added the harmony memory (HM): and

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