Patent Search

Invention Title	SYSTEM AND METHOD TO PREDICT RHEUMATOID ARTHRITIS (RA)
Publication Number	24/2020
Publication Date	12/06/2020
Publication Type	INA
Application Number	202041023528
Application Filing Date	04/06/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06F 11/36

Inventor

Name	Address	Country	Nationality
Mr. S.Shanmugam	Assistant Professor, Department of Computer Science and Engineering, Kongunadu College of Engineering and Technology, Tholurpatti, Trichirappalli,Tamil Nadu, India- 621 215	India	India
Dr. Pravin R.Kshirsagar	Professor & Head , Department of Electronics and Communication Engineering, AVN Institute of Engineering and Technology, Koheda Road, M.P.Patelguda Post Ibrahimpatnam (M),Ranga Reddy Dist Hyderabad ,Telangana ,INDIA - 501510	India	India
Dr. Shaik Khaleel Ahamed	Associate Professor, Department Of Computer Science and Engineering, Lords Institute of Engineering and Technology,Hyderabad, Telangana, India - 500008	India	India
Mr. K.Nitalaksheswara Rao	Associate Professor, Department Of Computer Science and Engineering, Narasaraopeta Engineering College, Narasaraopet ,Guntur Dt,Andhra Pradesh India- 522601	India	India
Dr. Parul Dawar	Assistant Professor, Department of Electronics and Communication Engineering, Guru Tegh Bahadur Institute of Technology Delhi, India - 110064	India	India
Mr. Akkaraju Sailesh Chandra	Assistant Professor, Dhruva College of Management, Telangana, India - 500101	India	India
Ms. Neha Shukla	Assistant Professor, Department Of Computer Science and Engineering, KIET Group of Institutions Delhi-NCR, Ghaziabad-Meerut Road, NH 58, Ghaziabad, Uttar Pradesh 201206	India	India
Dr. Selvamani Indrajith	Professor & Head (R&D), Department of Electronics and Communication Engineering, Malla Reddy College of Engineering for Women Maisammaguda, Hyderabad, Telangana , India - 500100	India	India
Dr. Siva Shankar S	Associate Professor & Head, Department Of Computer Science and Engineering, KG Reddy College Of Engineering And Technology, Beside Moinabad Police Station, Chilkur village, Moinabad Moinabad Mandal, Hyderabad, Telangana, India - 500075.	India	India
Dr. R.Murugesan	Professor , Department of Electronics and Communication Engineering, Narsimha Reddy College of Engineering , Maisammaguda, Kompally, Secunderabad, Telangana , India - 500100	India	India
Mr. Pranav Chippalakatti	Assistant Professor, Department of ETC, Rajarshi Shahu College of Engineering , Ashok Nagar, Tathawade, Pimpri - Chinchwad, Maharashtra, India - 411033	India	India

Applicant

Name	Address	Country	Nationality
Mr. S.Shanmugam	Assistant Professor, Department of Computer Science and Engineering, Kongunadu College of Engineering and Technology, Tholurpatti, Trichirappalli,Tamil Nadu, India- 621 215	India	India
Dr. Pravin R.Kshirsagar	Professor & Head , Department of Electronics and Communication Engineering, AVN Institute of Engineering and Technology, Koheda Road, M.P.Patelguda Post Ibrahimpatnam (M),Ranga Reddy Dist Hyderabad ,Telangana ,INDIA - 501510	India	India
Dr. Shaik Khaleel Ahamed	Associate Professor, Department Of Computer Science and Engineering, Lords Institute of Engineering and Technology,Hyderabad, Telangana, India - 500008	India	India
Mr. K.Nitalaksheswara Rao	Associate Professor, Department Of Computer Science and Engineering, Narasaraopeta Engineering College, Narasaraopet ,Guntur Dt,Andhra Pradesh India- 522601	India	India
Dr. Parul Dawar	Assistant Professor, Department of Electronics and Communication Engineering, Guru Tegh Bahadur Institute of Technology Delhi, India - 110064	India	India
Mr. Akkaraju Sailesh Chandra	Assistant Professor, Dhruva College of Management, Telangana, India - 500101	India	India
Ms. Neha Shukla	Assistant Professor, Department Of Computer Science and Engineering, KIET Group of Institutions Delhi-NCR, Ghaziabad-Meerut Road, NH 58, Ghaziabad, Uttar Pradesh 201206	India	India
Dr. Selvamani Indrajith	Professor & Head (R&D), Department of Electronics and Communication Engineering, Malla Reddy College of Engineering for Women Maisammaguda, Hyderabad, Telangana , India - 500100	India	India
Dr. Siva Shankar S	Associate Professor & Head, Department Of Computer Science and Engineering, KG Reddy College Of Engineering And Technology, Beside Moinabad Police Station, Chilkur village, Moinabad Moinabad Mandal, Hyderabad, Telangana, India - 500075.	India	India
Dr. R.Murugesan	Professor , Department of Electronics and Communication Engineering, Narsimha Reddy College of Engineering , Maisammaguda, Kompally, Secunderabad, Telangana , India - 500100	India	India
Mr. Pranav Chippalakatti	Assistant Professor, Department of ETC, Rajarshi Shahu College of Engineering , Ashok Nagar, Tathawade, Pimpri - Chinchwad, Maharashtra, India - 411033	India	India

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);
updating the harmony memory (HM) if the harmony is added the harmony memory (HM); and

View Application Status