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APPLICANT NAME	1 . DR.N.SANDHYA 2 . DR. M. RAJA SEKAR 3 . DR. ASHISH KUMAR CHAKRAVERTI(HOD) 4 . VIVEK KUMAR 5 . P. ILA CHANDANA KUMARI 6 . PROF. DR. YASHPAL SINGH
TITLE OF INVENTION	COMPUTER CACHE MEMORY PERFORMANCE ENHANCE USING NEURAL NETWORKS AND MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in
ADDITIONAL-EMAIL (As Per Record)	vivekrobotics@gmail.com
E-MAIL (UPDATED Online)	
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(31) Priority Document No :NA	**1)DR.N.SANDHYA**
(32) Priority Date :NA	Address of Applicant :VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIGNANA JYOTHI NAGAR, NIZAMPET RD, PRAGATHI NAGAR, HYDERABAD, TELANGANA 500090, INDIA. Telangana India
(33) Name of priority country :NA	**2)DR. M. RAJA SEKAR**
(86) International Application No :PCT// Filing Date :01/01/1900	**3)DR. ASHISH KUMAR CHAKRAVERTI(HOD)**
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	6)PROF. DR. YASHPAL SINGH
(62) Divisional to Application Number :NA Filing Date :NA	(72)**Name of Inventor :** **1)DR.N.SANDHYA** **2)DR. M. RAJA SEKAR** **3)DR. ASHISH KUMAR CHAKRAVERTI(HOD)** **4)VIVEK KUMAR** **5)P. ILA CHANDANA KUMARI** **6)PROF. DR. YASHPAL SINGH**

(57) Abstract :
COMPUTER CACHE MEMORY PERFORMANCE ENHANCE USING NEURAL NETWORKS AND MACHINE LEARNING ABSTRACT The Invention€ • COMPUTER CACHE MEMORY PERFORMANCE ENHANCE USING NEURAL NETWORKS AND MACHINE LEARNING €• is a Systems and methods for selecting an appropriate caching algorithm to be used when temporarily storing data accessed by an executing application using a neural network may dynamically and iteratively replace an initial caching algorithm being used for the application. The input , Output layer of the neural network may gather values of performance related parameters, such as cache hit, miss rates, data throughput rates, or memory access request response times. The neural network may detect a bit map pattern or change in a pattern of accesses, or a change in a workload, a hardware component, or an operating system parameter. Dependent on these or other inputs, the neural network may select and apply a caching algorithm likely to improve performance of the application. Other inputs to the neural network may include values of hardware configuration parameters and operating system parameters.

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