

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 27/2024	शुक्रवार	दिनांकः 05/07/2024
ISSUE NO. 27/2024	FRIDAY	DATE: 05/07/2024

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 27/2024 Dated 05/07/2024

58056

(22) Date of filing of Application :01/07/2024

(43) Publication Date : 05/07/2024

(51) International classification:G06 G061(86) International Filing Date:NA Filing Date(87) International Publication No (61) Patent of Addition to:NA	:G06F0009500000, H04W0072040000, G06N0020000000, H04L0043160000, G06N0007000000 :NA :NA :NA : NA	 (71)Name of Applicant : 1)CMR TECHNICAL CAMPUS Address of Applicant :KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad 2)CMR COLLEGE OF ENGINEERING & TECHNOLOGY Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr N Bhaskar Address of Applicant :Assoc. Prof., Computer Science and Engineering, CMR Technical Campus KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad
		Address of Applicant :Assoc. Prof., Computer Science and Engineering, CMR Technical Campus KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R
	:G06F0009500000, H04W0072040000,	DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad
	G06N002000000, H04L0043160000,	2)Dr T V Dharmajee Rao
		Address of Applicant :Professor, Computer Science and Engineering, CMR
Application No	:NA :NA	DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad
Filing Date (87) International : N Publication No (61) Patent of Addition to Application Number : N/ Filing Date (62) Divisional to Application Number : N/ Filing Date : N/ Filing Date : N/		
	: NA	3)V Srinu Address of Applicant Asst Prof. Computer Science and Engineering CMR
	:NA :NA	Technical Campus KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad
	NT 4	
	:NA :NA	4)Anuradha Boya Address of Applicant :Asst. Prof., Computer Science and Engineering, CMR
		College of Engineering and Technology KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
		Hyderabad
		5)Komal Parashar Address of Applicant :Asst. Prof., Computer Science and Engineering, CMR
		College of Engineering and Technology KANDLAKOYA VILLAGE, MEDCHAL
		MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
		6)P. Sravanthi
		Address of Applicant :Asst. Prof., Computer Science and Engineering, CMR
		MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA. INDIA
		Hyderabad
(57) Abstract:		

(54) Title of the invention : ADAPTIVE QUANTUM-INSPIRED RESOURCE ALLOCATION FOR DYNAMIC WORKLOAD BALANCING IN CLOUD **ENVIRONMENTS**

(57) Abstract

ADAPTIVE QUANTUM-INSPIRED RESOURCE ALLOCATION FOR DYNAMIC WORKLOAD BALANCING IN CLOUD ENVIRONMENTS ABSTRACT THE present invention relates to an adaptive quantum-inspired resource allocation system (100) and method for dynamic workload balancing in cloud environments. The system comprises a quantum-inspired computing module (108) configured to generate resource allocation solutions by leveraging quantum algorithms and real-time dynamic workload information. A workload monitoring module (110) continuously observes and analyzes the cloud environment's workload characteristics. An adaptive control module (112) receives the quantum-inspired resource allocation solutions and dynamically adjusts resource allocations based on real-time workload changes. These adjustments are made in an adaptive manner to optimize both resource utilization and workload balancing. The method involves generating quantuminspired resource allocation solutions based on quantum algorithms and workload characteristics, monitoring dynamic workload changes, and dynamically adjusting resource allocations in real-time to achieve optimal workload balancing and resource utilization in cloud environments. The proposed system and method provide an innovative approach to address the challenges of resource allocation in dynamic cloud environments, combining quantum-inspired computing principles with real-time adaptive control for enhanced efficiency and responsiveness.

No. of Pages : 22 No. of Claims : 9