पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 51/2023	शुक्रवार	दिनांक: 22/12/2023
ISSUE NO. 51/2023	FRIDAY	DATE: 22/12/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2023
(21) Application No.202341077143 A
(43) Publication Date : 22/12/2023

(54) Title of the invention : QUANTUM-ENHANCED EDGE COMPUTING SYSTEM FOR LATENCY REDUCTION AND DATA OPTIMIZATION

(51) International classification :G06N0010000000, G06F0009500000, H04L0043085200, H04W0028020000, G06K0009620000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)RVR & JC COLLEGE OF ENGINEERING
Address of Applicant :RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)DR. CH. SUDHA SREE
Address of Applicant :Department of Computer Science and Engineering (Data Science) RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur ---------- ----------
2)MRS .K. ARAVINDA
Address of Applicant :Department of Computer Science and Engineering (Data Science) RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur ---------- ----------
3)MR. B. RAMAKRISHNA
Address of Applicant :Department of Computer Science and Engineering (Data Science) RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur ---------- ----------
4)MR. M. SATYANARAYANA REDDY
Address of Applicant :Department of Computer Science and Engineering (Data Science) RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur ---------- ----------

(57) Abstract :
QUANTUM-ENHANCED EDGE COMPUTING SYSTEM FOR LATENCY REDUCTION AND DATA OPTIMIZATION
ABSTRACT The present invention represents a groundbreaking innovation that seamlessly merges quantum processing with traditional edge computing nodes, resulting in a significant reduction in latency and data optimization. By utilizing quantum algorithms, entanglement-based communication, and dynamic task allocation driven by latency predictions, this system offers a cutting-edge solution that enhances edge computing efficiency, ensuring peak performance for latency-sensitive applications and services. It harnesses quantum technology to open new possibilities in edge computing across diverse industries, catering to the growing demand for low-latency, high-performance computing solutions.

No. of Pages : 21 No. of Claims : 8