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(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. A. Srikrishna
 Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----

2)Dr. M. Pompapathi
 Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----

3)Dr. V. Sesha Srinivas
 Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----

4)Dr. A. Yaswanth Kumar
 Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY RVR & JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----

(57) Abstract :
 METHOD AND SYSTEM FOR PROVIDING MULTIMODAL INTERACTION ASSISTED AUTONOMOUS INTELLIGENT VIRTUAL ASSISTANT ABSTRACT The invention pertains to a Multimodal Interaction Assisted Autonomous Intelligent Virtual Assistant (MIAAIVA) system and method designed for seamless and adaptive user engagement. The MIAAIVA employs various modalities, including voice, text, gesture, and visual recognition, allowing users to interact naturally. A natural language processing module deciphers user inputs, extracting context and intent. Simultaneously, a sensor array analyzes user gestures and visual cues, enhancing the system's understanding of interactions. The invention features a Multimodal Learning and Adaptation Module that employs machine learning algorithms for real-time adjustments, improving the virtual assistant's responses. The module incorporates a feedback loop, leveraging user input to iteratively enhance performance. This innovation delivers an intelligent virtual assistant capable of autonomous, multimodal interaction, significantly improving user experience and adaptability.

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