(54) Title of the invention : A SYSTEM AND METHOD FOR CONTEXT-BASED SIMULATION MODELS USING IOT FOR IMPROVED ANALYSIS

(51) International classification : C07H 210000, G01N 336800, G01V 990000, G06F 094800, G06F 302000 (86) International Application No : PCT// Filing Date : 01/01/1900 (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)Rongali Aneel Kumar** Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Avanthi Institute of Engineering and Technology, Cherukupally (Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist.), Andhra Pradesh-531162 ----------- ----------- **2)Dr. S.Sagar Imambi** **3)Mr. P K Kumar** **4)Dr. R. Krishna Kumari** **5)Dr.P. Suresh Kumar** **6)Manjunathan Alagarsamy** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** **1)Rongali Aneel Kumar** Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Avanthi Institute of Engineering and Technology, Cherukupally (Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist.), Andhra Pradesh-531162 ----------- ----------- **2)Dr. S.Sagar Imambi** Address of Applicant :Professor, Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundations, Vaddeswaram, Guntur, Andhra Pradesh, 522303 ----------- ----------- **3)Mr. P K Kumar** Address of Applicant :Senior Physical Director, Sri Sairam Engineering College, Sai Leo Nagar, West Tambaram, Chennai - 600044 ----------- ----------- **4)Dr. R. Krishna Kumari** Address of Applicant :Assistant Professor, Department of Career Development Centre, College of Engineering and Technology, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur-603203, Tamilnadu, India ----------- ----------- **5)Dr.P. Suresh Kumar** Address of Applicant :Associate Professor, Mechanical Engineering Department, RVR and JC College of Engineering, Chowdavaram, Guntur, AP ----------- ----------- **6)Manjunathan Alagarsamy** Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, K.Ramakrishnan College of Technology, Trichy - 621112, Tamil Nadu, India ----------- -----------

(57) Abstract :

[034] The present invention provides a context-based simulation model using Internet of Things (IoT) technology to improve the accuracy and relevance of simulation results in a specific context. The simulation model includes a set of rules, equations, and algorithms that define the behaviour of the system, while the IoT technology collects real-time data from the environment, equipment, products, and users. The IoT data is integrated into the simulation model to improve the accuracy and relevance of the simulation results, which can be used for various purposes such as predictive analysis, training and education, and system design and optimization. The invention provides a method for implementing the context-based simulation model using IoT technology.

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