Dr. K. Satish Kumar
Associate Professor

Education Qualifications:	Doctor of Philosophy (Computer Science)
Specialization:	Safety Critical Systems

ADDRESS:
- D Block Room No 203

JNTUH ID:
8166-180201-155956

EMAIL:
ksatishumar_cse@mgit.ac.in

DATE OF JOINING:
01-05-2023

EXPERIENCE – 18 Years
- Teaching - 16
- Research - 2
- Industry -
- Others –

SUMMARY:
- Publications - 24
- Conferences - 12
- Patents – 4
- Books – 1
- Honors/Awards - 1

EVENTS:
- Organized - 3
- Attended - 14

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- https://www.linkedin.com/company/mgithyderabad
- https://twitter.com/MGIThyderabad

Membership of Professional Bodies:

1. Life Member ISTE
2. Life Member IETE
3. Life Member IE
4. Life Member CSI

Responsibilities Held at Institution Level:

5. Coordinator ALEAP organization.

Responsibilities Held at Department Level:

6. Member Criteria -4 and criteria 1 in NAAC

Research Guidance:

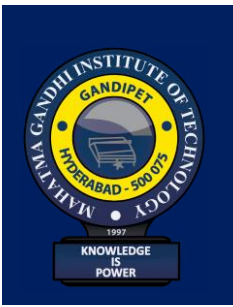7. JNTUH Granted guideship for scholars.

Honors/Awards Received:

8. Scientific Innovation Research Group (SIRG), Beni-Suef City, Egypt, 62688/2994/T/21/6/2021, as Honorary Adjunct Scientist and Fellow of SIRG, Egypt for a term of 3 years (28 December 2022 to 27 December 2025)

Courses Handled at Under Graduate /Post Graduate Level:

9. **UG:** Programming for Problem Solving, JAVA, C++, Microprocessors 8085 and 8086, Digital logic Design, Computer organization.
10. **PG:** Data Mining, Data warehousing, Embedded Systems.

Publications:

11. Federated Learning Approach for Predicting the Growth Rate and Menace of COVID-19 International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING Ram Prasad Reddy Sadi*1, B. V. A. N. S. S. Prabhakar Rao2, Rabindra Kumar Singh3, Chadrika Dadhirao4, Kupukotla Satish Kumar5, Chengamma Chitteti6 ISSN:2147-6799 IJISAE, 2023, 11(2), 928–935
12. Efficient Deep Learning CNN Model for Improved Brain Tumor Classification Using Mass Correlation Measure Communicated to Biomedical Signal Processing and Control -ELSEVIER
13. Epilepsy Detection and Classification using Hybrid Deep Learning methods Communicated to Knowledge-Based Systems SCI Journal
14. AI and DL Mechanism Approaches to COVID-19 for Diagnosis and Behavior S. Snehal , K Satish Kumar , A. Anjayya -The International journal of analytical and experimental modal analysis Volume XIV, Issue II, February/2022 ISSN NO:0886-9367
15. Software Safety Analysis Approach of Software Safety Critical Computer

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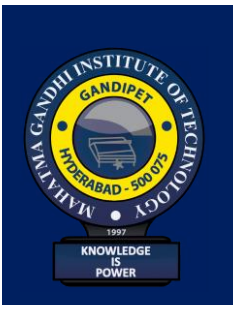- Organized - 3
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- https://twitter.com/MGIThyderabad

Controlled System K Satish Kumar, B. Umamaheswar Rao, P. Seetharamaiah International Journal of Grid and Distributed Computing Vol. 13, No. 2, (2020), pp. 763 – 775

16. Intelligent System for Smart Cultivation - to Integrate Technology in Rural Economic Development, Kadupukotla Satish Kumar, Rabindra Kumar Singh, P Sundeep International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-3, February, 2020

17. Globalizing compassionate healthcare B V A N S S Prabhakar Rao1, Kadupukotla Satish Kumar2 & Rabindra Kumar Singh, international journal of civil engineering & technology (ijciet) ISSN Print: 0976 – 6308

18. AI based E-Healthcare in Rural Areas Kadupukotla Satish Kumar, P. Sundeep, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-3, January 2020

19. IoT based Street Light System for Energy Conversation K Satish Kumar , G Satyanarayana -Journal of Applied Science and Computations Volume VI, Issue V, May/2019 ISSN NO: 1076-5131

20. Theft detector in bank ATM using internet of things G Satyanarayana, K Satish Kumar International Journal of Research and Analytical Reviews (IJRAR) March 2019, Volume 6, Issue 1 E-ISSN 2348-1269, P- ISSN 2349-5138

21. A Critical analysis of integration of non-functional requirements into design patterns for safety-critical computer systems K Satish Kumar G Satyanarayana -IJCRT1134489 International Journal of Creative Research Thoughts (IJCRT) 2018 IJCRT | Volume 6, Issue 2 April 2018 | ISSN: 2320-2882

22. Safety Critical System Analysis G Satyanarayana , K Satish Kumar JETIR1901G19 Journal of Emerging Technologies and Innovative Research (JETIR) ISSN-2349-5162 -2019 JETIR January 2019, Volume 6, Issue 1

23. Medical Cyber-Physical Modeling of Control Software for Clinical Programming of Implantable Cochlear Implant System, K Satish Kumar B Umamaheswararao, International Conference on Innovative Technologies in Computer Science and Engineering (ICITCSE-2018)

24. Safety Critical Systems based on Prescribed Models, K.Satish Kumar Gandi Satyanarayana, International Conference on Innovative Technologies in Computer Science and Engineering (ICITCSE-2018)

25. Kadupukotla Satish Kumar, Panchumarthy Seetha Ramaiah "An Experimental Safety Analysis using FTA for a Ball Position Control System"   International Journal of System and Software Engineering Publishing India.

26. Kadupukotla Satish Kumar, Panchumarthy Seetha Ramaiah Software Safety Analysis of Ball Position Control System using SFMEA International Journal of Computer Applications.

27. Kadupukotla Satish Kumar, Panchumarthy Seetha Ramaiah, "Hazard Analysis and Metrics Identification for Software Safety in Medical Cyber-Physical Systems" International Journal of Applied Engineering Research (IJAER).

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28. Kadupukotla Satish Kumar, Panchumarthy Seetha Ramaiah, "Software Safety in Aviation Industry", International Journal of Computer Systems (IJCS), 3(2), pp: 121-126, February 2016.

29. Kadupukotla Satish Kumar, Panchumarthy Seetha Ramaiah, "Perspectives on Safety Critical Computing Systems", International Journal of Computer Systems (IJCS), 3(2), pp: 108-112, February 2016.

30. Kadupukotla Satish Kumar, "Basics for Easy capturing and Modelling of Requirements Elicitation, Analysis and Design in Software Development Process", 2012. International Journal on Advanced Computer Theory and Engineering ISSN (Print) : 2319 –2526, Volume-1, Issue-1, 2012.

Patents:

31. Robust malware identification through eigen space learning from the Internet of Things infrastructure -**202041045765**

32. Enhancing the image using Fussy edge detection method in digital image processing 202141009842 A

33. An Intelligent Coconut Harvesting System -2022/04881 Granted

No. of Books/Chapter Published with details:

Java fundamentals by Minfos Systems

Events Organized:

Conferences:

Conducted Three Conferences.