



NAME: Dr UDAYA KUMAR N L

Designation: Professor

Department: Computer Science and Engineering

Date of Joining	19 March 2024		
Professional Experience	Teaching	Industry	Research
	26	Nil	10

Contact Details	
Email ID	msgraceuk@gmail.com
Telephone	91-9742921308
LinkedIn	Linkedin.com/in/dr-udaya-kumar-n-l-32b05721
Google Scholar	K4-MOmUAAAAJ
ORCID	https://orcid.org/0000-0002-5695-2540
Vidwan -ID	

Academic Background	
• Phd	March 2018 (Jain University, Bangalore)
• MTech	2007 (VTU, Karnataka)
• BE	1996 (Bangalore University)

Areas of Interest	
• Cloud Computing	• Virtualization
• Computer Networks	•

Significant Publications

- **No. of Papers Published in Journals (Numbers and Description)**
- Research paper with title **"Security Issues and Solutions for Virtualization in Cloud Computing"** is published in the Journal **"International Journal of Engineering Research and Technology"** Vol. 3, Issue 14, ISSN (Online): 2278-0181, Page No. 36-40, 2015.
- Research paper with title **"Meeting the Challenge of Virtualization Impact on Cloud Services"** is published in the Journal **"International Journal of Computer Science and Information Technologies (IJCSIT)"**, Vol. 7, Issue 1, pages 457-461.
- Research paper with title **"Multi-level Security for Virtualization in Cloud Services"** published in **PARIPEX- Indian Journal of Research**, Vol. 6, Issue 5, May 2017.

- Research paper with title **“Virtualization Security in Cloud Environment”** published in International Journal of Computer Science and Information Technology Research Excellence (IJCSITRE) Vol. 7, Issue 3, May-Jun. 2017.
- Research paper with title **“Security for Virtualization in Cloud Services using Duplication Method”** has been accepted for publishing in Indonesian Journal of Electrical Engineering and Computer Science (Scopus indexed) Vol. 6, No.2, pages 482-488, May 2017.
- Research paper with title **“Running Instances of Virtual Machines Concurrently and Securely in Cloud Environment”** has been published in International Journal of Computer Trends and Technology (IJCTT), Vol. 62, No.1, Pages 71-74, Aug. 2018.
- Research paper with title **“A Survey: Different Data Hosting Schemes”**, has been published in Journal of Emerging Technologies and Innovative Research, Vol. 6, Issue 5, Pages 71-75, May 2019.
- Research paper with title **“Efficient Data Hosting and Retrieval”** has been published in Journal of Emerging Technologies and Innovative Research, Vol. 6, Issue 6, Pages 108-113, Jun. 2019.
- Research paper with title **“A Novel Approach for Securing Virtual Machines in Cloud Environment”** has been published in the SSAHE Journal of Interdisciplinary Research, Vol 1, Issue 1, pages 60-66, ISSN: 2582-9890, 2020.
- Research paper with title **“Security for Virtual Machines in Cloud Services using VMM”** has been published in International Journal of Novel Research and Development (IJNRD), Vol 7, Issue 12, ISSN: 2456-4184, December 2022.
- Research paper with title **“Resource Allocation Energy Efficient Algorithm for H-CRAN in 5G”** has been accepted to publish in the (Scopus Indexed) International Journal on Recent and Innovation Trends in Computing and Communication(IJRITCC), for upcoming issue, ISSN: 2321-8169, 2023.
- Research paper with title **“Towards a Machine Learning Defence Mechanism for Cloud Environment”** has been published in the SSAHE Journal of Interdisciplinary Research, Vol 4, Issue 1, pages 12-28, ISSN: 2582-9890, July 2023.
- Research paper with title **“Detecting Security Threats in Wireless Sensor Networks using Hybrid Network of CNNs and Long Short-Term Memory”** has published in International Journal (Scopus Indexed, Q3 Journal) of Intelligent Systems and Applications in Engineering(IJISAE) , Vol 12, Issue 1, pages 704-722, ISSN: 2147-6799, 27-08-2023.
- Research paper with title **“Chaos Reptile Search Algorithm Based Clustering and Routing for Internet of Things Assisted Wireless Sensor Network”** has published in International Journal of Intelligent Engineering & Systems (IJIES) , Vol 17, No.4, 2024.

Total Number of Papers : 14

- **No. of Papers Presented in Conferences (Numbers and Description)**

✚ Research paper with title **“Design and Implementation of Real Time Kernel for Digital Photo Frame”** is presented in a National conference **“Frontiers of Computer science”** held at Donbosco Institute of Technology, Bangalore, organized by dept. of CSE on 19th and 20th May 2011.

- ✚ Research paper with title **“A Survey of QoS Multicast Routing Protocols and Issues”** is presented in a National conference **“Advances in Computer Applications”** held at Sri Siddhartha Institute of Technology, Tumkur, organized by dept. of MCA on 9th and 10th May 2012.
- ✚ Research paper with title **“High Performance Multicast Algorithms for Data Intensive Applications on Clouds”** is presented in a International conference **“Current trends and challenges in Management, Engineering, Computer Application and Technology”** held at Deogiri college campus, Aurangabad, Maharashtra, on 23rd to 25th Mar. 2012.
- ✚ Research paper with title **“Dynamic Resource Allocation for Parallel Data Processing in the Cloud”** is presented in a International conference on **“Cloud Computing And Service Engineering”** organized by dept. of MCA, held at Rajarajeshwari college of engineering, Bangalore, on 11th to 13th Apl. 2012.
- ✚ Participated in National Conference on **“Advances in Computer Applications-NCACA 2012”** organized by Dept. of MCA, SSIT, Tumkur on 10th and 11th May 2012.
- ✚ Research paper with title **“Cloud Virtualization security risks and solutions”** is presented in a National level Technical Paper presentation **“Technika-2013”** held on 14th Mar. 2013 at Akshaya Institute of Technology, Tumkur.
- ✚ Research paper with title **“Ensuring Security in Cloud Virtualization Via Divide-Rule Strategy”** is presented in National conference on **“Advances in Computer Applications-NCACA 2013”** organized by Dept. of MCA, SSIT, Tumkur on 16th and 17th May 2013.
- ✚ Research paper with title **“Virtualization Security for Cloud Computing Service”** is presented at the International Conference on **“Recent Trends in Engineering and Technology – 2013”** held at Bangalore on 30th Apl. 2013.
- ✚ Research paper with title **“Ensuring Security for Virtualization on Cloud services”** in the **International conference (ICECCOT-2016)** in association with IEEE Bangalore held at GSSSIT, Mysore on 9th and 10th Dec. 2016.
- ✚ Research paper with title **“Routing and Security in Wireless Adhoc Networks: State of the art and recent advances”** has been authored in the 2023 IEEE International Conference on Renewable Energy and Sustainable E-Mobility (RESEM 2023), organized at Maulana Azad National Institute of Technology, Bhopal on June 2023, which is sponsored by IEEE MP section.

Total Number of papers: 10

- **List of FDP’s/Workshops (Numbers and Description)**

- ✚ Participated in the **“Faculty Development Program”** held at L&T, Bangalore on 5th and 6th Feb. 2008.
- ✚ Participated in the **“Ph.D. in Computer Science: A Perspective”** held at Indian Institute of Science, Bangalore on 2nd July 2010.
- ✚ Participated in the **“Faculty Development Program”** held on 30th Jan 2014 at SSIT, Tumkur, conducted by Tata Consultancy Services.

- ✦ Participated in Faculty development program on “**Cloud computing Architecture, Security and Reliability**” held on 30th Jan 2014 at SSIT, Tumkur, conducted by TATA Consultancy Services.
- ✦ Participated in Faculty development program on “**Career assessment, Coaching and Counselling**” under TEQIP-II-1.2 held on 18th, 19th and 20th Jun. 2014 at SSIT, Tumkur.
- ✦ Participated in Faculty Development program on “**Basic Pedagogical skills development training for Engineering college teachers**” held on 5th to 9th Jan. 2016 at SSIT, Tumkur.
- ✦ Participated in Faculty Development program on “**Advanced Pedagogical skills development training for Engineering college teachers**” held on 31st May to 4th Jun. 2016 at SSIT, Tumkur.
- ✦ Participated in one day FDP on “Design Thinking for Creativity and Innovation” organized by Dept. of Computer Science & Engg. in association with BITES, on 5th June 2023 at BGSIT, BG Nagar.
- ✦ Participated in IP awareness/Training program under “**National Intellectual Property Awareness Mission**” on July 26, 2023. Organized by Intellectual Property Office, India.

Total : 09

- **Patents Published (Numbers and Description)**

Title: **Virtual Machine Monitoring and Management System.**

Application No. 202141010180

Date of filing. 11-03-2021

Publication date (U/S 11A). 26-03-2021

Field of Invention: Computer Science

- **Awards/Recognition**

- Selected as the **Session Chair** for the International Conference on Wireless Communication and Internet of Everything (ICWCIE-2024) organized by department of ECE, SSIT, Tumkur on 21st and 22nd June 2024.

Awarded “SUPERLATIVE AWARD” for best effort in teaching for the year 2011-12 at SSIT.

- **Project Guided details**

Projects guided for M.Tech. Students

Sl. No.	Name	Year	USN.	Title of Thesis
1	Chaaya T D	2010 – 11	09CSE03	Design and Implementation of Real time Kernel for Digital Photo Frame
2	K B Manasa	2011 – 12	10CSE11	Exploiting Dynamic Resource Allocation for Efficient Parallel Data Processing in the Cloud

3	Suhasini	2011 – 12	10CSE16	Dynamic Data Distribution Multicast Algorithm for Data-Intensive Applications on Clouds
4	Siddaramaiah S R	2014 – 15	13CSE16	Optimizing Delivery of Cloud Resources through Secured Virtualization
5	Satheeshkumar S E	2015 – 16	14CSE11	Increase Security and Reduce Energy Consumption in Cloud Computing using Virtualization Technique
6	Varamahalakshmi M	2016 – 17	15CSE13	Virtualization Security in Cloud Environment
7	Rima Thokchom	2018 – 19	17CSE03	Efficient Data Hosting and Retrieval
8	Gagana G R Nayaka	2021-22	20CSE04	Epilepsy Detection Using IOT and Image Processing.

Achievements

- **Editorial Board Member**

SSAHE – Journal of Interdisciplinary Research (an unpaid peer – reviewed journal) from Jan 2020 to Dec 2022

- **Reviewer for**

- Worked as a **Reviewer** in Sixth International Conference on Emerging Research in Computing, Information, Communication and Applications held at NMIT, Bengaluru during Sep 25-28 2020.

- Worked as a **Reviewer** for SSAHE – Journal of Interdisciplinary Research (an unpaid peer – reviewed journal) from Jan 2020 to Dec 2022

- Selected as the **Reviewer** of the journal, SSAHE – Journal of Interdisciplinary Research (an unpaid peer – reviewed journal) for a period of 6 years. (from 06-oct-2023)

- **Invited Speaker for**

- Delivered a “**Guest Lecture**” on the topic “**Role of Storage Area Networks in Current IT world**” at Aryabharathi Polytechnic, Tumkur, on 1st Oct. 2013.

- **Resource person for**

- Participated in “**Sri Aurobindo National Integration and National level Rotary youth Leadership Awards**” organized by Rotary club of Pondicherry and Sri Aurobindo Education society at Pondicherry, held from 10th to 19th May 1999.

- Attended “**Computer Society of India – SIT Student Chapter**” as a judge for an event “**Innovatica**” held on 6th Mar. 2014 at SIT, Tumkur.

- Attended a **National Conference** as a **“Jury Member”**, held at GMIT, Bharathinagara, Maddur on 25th Apl. 2015.
- **In-house resource person for**
- Co-ordinated a 3 days workshop on **“Storage Area Networks”** on 13th to 15th Dec. 2013 at SSIT, Tumkur in association with Data life cycle company, Bangalore.
- Worked as organizing committee member of the National conference **“Computer Networks and Soft Computing”**, held at SSIT, organized by dept. of CSE on 6th and 7th Nov. 2012.
- **Professional Membership**
- The Indian Society for Technical Education (**ISTE**), No. LM55576