



SRI SHRIDEVI CHARITABLE TRUST (R.)
**SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY**



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	
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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
<ul style="list-style-type: none">• 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