Dr. Srinivasa Rao Gundu

Ph.D. Computer Science (Cloud Load Balancing), M.C.A.

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Scopus
ID: chLdQ1YAAAAJ   ID: 57559355800   VIDWAN ID: 367972   RESEARCHERID ID: AAE-1369-2020

CAREER OBJECTIVE

Being a Doctorate in Computer Science with over **18 years of dedicated experience** in academia, I aspire to contribute my experience, passion for teaching, and dedication to advancing in the field of computer science in a dynamic academic environment. My goal is to inspire the next generation computer scientists, adaptive innovative research, and continue making meaningful contributions to the academic community.

EXPERTISE

- Cloud Computing
- Quantum Computing
- Machine learning
- Quantum Cryptography
- Big Data
- Operating Systems
- Artificial Intelligence
- Internet of Things
- Networking

SUMMARY OF PUBLICATIONS (Citations: 153; h-index: 7; i10 index: 5)

Books	:	07 no.
Book Chapters (Published)	:	19 no. (2 no. - Scopus)
Book Chapters (Accepted)	:	09 no. (1 no. - Scopus)
Research Papers	:	31 no. (8 no. - Scopus)
Review Papers	:	08 no.
Conference Papers Published	:	12 no. (1 no. - Scopus)
Conferences, Workshops Attended	:	17 no.
Publications under review	:	01 no.
Guest Lectures	:	01 no.

	All	Since 2019
Citations	153	153
h-index	7	7
i10-index	5	5

CURRENT POSITION (July, 2023 – till now)

Assistant Professor
School of Sciences
Malla Reddy University, Hyderabad, Telangana, India.

REVIEWER FOR JOURNALS & CONFERENCES: 6 no.

1. **Global Journal of Computer Science and Technology (GJCST) – USA.**
2. **International Multi-conference on Society, Cybernetics & Informatics (IMSCI) – USA, (2015 to 2020).**
3. **International Journal of Community Development and Management Studies (IJCDMS).**
4. **International Journal of computers & technology (IJCT).**
5. **Journal of Ambient Intelligence and Humanized Computing (JAIHC).**
6. **Oriental Journal of Physical Sciences (OJPS).**

PROFESSIONAL BODY MEMBERSHIPS: 12 no.

1. **Member - Computer Science Teachers Association (CSTA) – USA.**
2. **Member - Scope Database - International Advisory Board (SD-IAB) - Singapore**
3. **Member - Institute of Mathematical Statistics (IMS) – USA.**
4. **Member - Internet Society (ISOC) – USA.**
5. **Member - American Physical Society (APS) – USA.**
6. **Member - American Mathematical Society (AMS) – USA.**
7. **Member – International Association of Engineers (IAENG) – Hong Kong SAR.**
8. **Member (Life Time Member) – Indian Science Congress Association (ISCA) – India**
9. **Member – Education Research and Development Association (ERDA) - India**
10. **Associate Member - International Association of Innovation Professionals (IAOIP) – USA.**
11. **Advisory Board Member - World Journal of Engineering Research and Technology –India**
12. **Associate Member – KTK Outstanding Achievers and Education Foundation – India**

EDUCATION

2014 - 2021   **Ph.D. in Computer Science (Cloud Load Balancing)**
Department of Computer Science, School of Sciences, Dravidian University, India.

Thesis title: "Hybrid Approach to Load balancing in Cloud Environment".
Research Advisor: Prof. T. Anuradha.
Summary of my Ph.D. thesis:
➢ Design, development and testing of <u>RT Hybrid Algorithm</u> to balance the load over the cloud environment.

➢ Design, development and testing of <u>RTE Hybrid Algorithm</u> to balance the load over the cloud environment with respective to response time, execution time and turnaround time.
➢ Design, development and testing of <u>RTEAH Hybrid Algorithm</u> to balance the load over the cloud environment with respective to processing time, throughput and network delay.
➢ Attained optimal solution for load balancing issues in cloud computing environment through <u>Hybrid algorithm approach.</u>

2009 - 2013   **Master of Computer Applications (MCA)** with 64% aggregate.
Osmania University, Telangana, India.

TEACHING EXPERIENCE **(18 years)**

2023 – till now	**Assistant Professor (FULL TIME)**
	School of Sciences, Malla Reddy University, Telangana, India.
	Teaching: Applied Cryptography & Network Security.
2021 – 2023	**Assistant Professor (Guest Lecturer)**
	Government Degree College, Hyderabad, Telangana, India. **Taught:** C, C++, Java, DBMS, Oracle, Ms Access, Windows Operating Systems and Web Designing (HTML, DHTML, CSS, Java Script).
2019 - 2021	**Senior Software Trainer (Assistant Professor)**
	Key Soft Computer Education, Hyderabad, Telangana, India. **Taught:** C, C++, Java, DBMS, Oracle, Ms Access, Windows Operating Systems and Web Designing (HTML, DHTML, CSS, Java Script).
2013 - 2014	**Programmer**
	JKR Softech Pvt. Ltd., Hyderabad, Telangana, India.
	Taught: Coding & analysing the software programs and applications.
2009 - 2013	**Senior Software Trainer (Assistant Professor)**
	Key Soft Computer Education, Hyderabad, Telangana, India. **Taught:** C, C++, Java, DBMS, Oracle, Ms Access, Windows Operating Systems and Web Designing (HTML, DHTML, CSS, Java Script).
2006 - 2009	**Software Trainer**
	S3K Software Solutions, Hyderabad, Telangana, India. **Taught:** C, C++, Java, DBMS, Oracle, Ms Access, Windows Operating Systems and Web Designing (HTML, DHTML, CSS, Java Script).

SOFTWARE SKILLS **(Diploma)**

- Java Programming
- Web designing
- Oracle
- Android

RESEARCH SKILLS (Supervision)

2022 - 2023	**Research Supervisor**
	Student Study Research Project "Jignasa".
	"Machine Learning based Loan Sanction Amount Prediction System (MLLSAPS)".
2022	**Research Supervisor**
	District Level Design Thinking Competition.
	"Youth for social impact - Ideas to develop and improve the life using designs".
2021 - 2023	**Research Supervisor**
	Student Study Research Project "Jignasa".
	"Spam Mail Detection and filtration Mechanism using Machine Learning".
2018	**Guide Teacher**
	District Level Inspire Science Exhibition cum Project Competition.

PUBLICATIONS

A. WORK UNDER REVIEW: (1 no.)

1) **(Book) Gundu, S.R.**, Panem, **2024**, Quantum Computing

B. BOOKS: (7 no.)

1) **Dr. Gundu Srinivasa Rao**, Dr. Panem Charanarur, **2024**, Using Artificial Intelligence in the Search for Extraterrestrial Intelligence: Tetra Toroid, Cambridge Scholars Publishing Limited, London, United Kingdom. **(ISBN: 1-5275-6361-8, ISBN 13 : 978-1-5275-6361-2).**

2) **Dr. Gundu Srinivasa Rao**, Dr. Panem Charanarur, Dr. J. Vijaylaxmi, **2023**, Explicated Conglomeration of Convictions and Tenets of Artificial Intelligence, ARC Publisher, Ongole, Andhra Pradesh, India. **(ISBN: 978-81-962335-9-4).**

3) **Gundu, S.R,** Srinivasa Rao, **2023**, Sahasra vipanchi, Scientific International Publishers, Tamil Nadu, India. **(ISBN: 978-93-5757-292-7).**

4) **Dr. Gundu Srinivasa Rao**, Dr. Panem Charanarur, Dr. J. Vijaylaxmi, **2023**, Robotic process automation design & development, Scientific International Publishers, Tamil Nadu, India. **(ISBN: 9789357571296).**

5) **Dr. Gundu Srinivasa Rao**, Dr. Panem Charanarur, Dr. J. Vijaylaxmi, **2023**, Compendia of Reuleaux Tetrahedron [The System of Parallel verses and it's transformational consistency, compatibility with reference to cellular automaton], Scientific International Publishers, Tamil Nadu. **(ISBN: 9789356256538).**

6) **Dr. Gundu Srinivasa Rao**, Dr. Panem Charanarur, Dr.J. Vijaylaxmi, **2022**, Dodecahedron: The Influential Transformations of the Computational Aspects of Artificial Intelligence, BOHR Book publishers, Chennai, India. **(ISBN: 978-93-92892-30-1).**

7) **Gundu, S.R.,** Panem, C., **2022**, Cloud Computing and its Service Oriented Mechanism, Akinik Publications, New Delhi. **(ISBN: 978-93-5570-132-9).** https://doi.org/10.22271/ed.book.1496

C. BOOK CHAPTERS: (19 no.) (02 no. indexed in Scopus) (PUBLISHED)

1) Panem, C., **Gundu, S.R.**, Vijaylaxmi, J., & Mallik, B.B. (2024). The Application of Deep Learning to the Localization of Brain Tumors. In Basu Mallik, B., Niranjanamurthy, M., Ghosh, S., Balas, V.E., Deyasi, K., & Das, S. (Eds.), Mathematical Modeling for Computer Applications (pp. 75-95). River Publishers. ISBN: 9781394248407.

2) Charanarur, P., **Gundu, S.R**. and Vijaylaxmi, J., Crop Welfare and Security to Farmers(pp.75-95). Crop Welfare and Security to Farmers, River Publishers. https://doi.org/10.1201/9781032628745.ch14.

3) **Gundu, S.R.,** Charanarur, P. and Vijaylaxmi, J., 2023, A Glance View on Cloud Infrastructures Security and Solutions (pp. 11-29). Wiley. https://doi.org/10.1002/9781394200801.ch1

4) **Gundu, S.R.,** Charanarur, P. and Vijaylaxmi, J., **2023**, Deception Preclusion, Discretion, and Data Safety for Contemporary Business. In Fraud Prevention, Confidentiality, and Data Security for Modern Businesses (pp. 128-161). IGI Global. https://doi.org/10.4018/978-1-6684-6581-3.ch006

5) Charanarur, P., **Gundu, S.R** and Vijaylaxmi, J., **2023**, Protection of Personal Data and Internet of Things Security. In Fraud Prevention, Confidentiality, and Data Security for Modern Businesses (pp. 196-224). IGI Global. https://doi.org/10.4018/978-1-6684-6581-3.ch009

6) **Gundu, S.R.,** Panem, C. and Vijaylaxmi, J., **2023**, A Comprehensive Study on Cloud Computing and its Security Protocols and Performance Enhancement Using Artificial Intelligence. Robotic Process Automation, pp.1-17. https://doi.org/10.1002/9781394166954.ch1

7) Panem, C., **Gundu, S.R.** and Vijaylaxmi, J., **2023**, The Role of Machine Learning and Artificial Intelligence in Detecting the Malicious Use of Cyber Space. Robotic Process Automation, pp.19-32. https://doi.org/10.1002/9781394166954.ch2

8) **Gundu, S.R.,** Panem, C., Vijaylaxmi, J. and Dave, A., **2023**, Advanced Rival Combatant LIDAR-Guided Directed Energy Weapon Application System Using Hybrid Machine Learning. Robotic Process Automation, pp.33-46. https://doi.org/10.1002/9781394166954.ch3

9) **Gundu, S.R.,** Panem, C. and Vijaylaxmi, J., **2023**, An Impact on Strategical Advancement and Its Analysis of Training the Autonomous Unmanned Aerial Vehicles in Warfare [Theme-RPA and Machine Learning]. Robotic Process Automation, pp.47-60. https://doi.org/10.1002/9781394166954.ch4

10) **Rao Gundu, S.,** Panem, C. and Vijaylaxmi, J., **2023**, A glance review on Data Science and its teaching: Challenges and solutions, in Advanced Mathematical Applications in Data Science. BENTHAM SCIENCE PUBLISHERS, pp. 80–91. https://doi.org/10.2174/9789815124842123010008

11) Charanarur, P., **Gundu, S. R.** and Vijaylaxmi, J., **2023**, Decision making using fuzzy logic using multicriteria, Fuzzy Logic Applications in Computer Science and Mathematics. Wiley, pp. 1–12. https://doi.org/10.1002/9781394175130.ch1

12) **Gundu, S.R.,** Arur Panem, C. and Surthanis, S., **2022**, Advanced Rival Combatant Identification with Hybrid Machine Learning Techniques in war field. https://doi.org/10.21203/rs.3.rs-1541110/v1

13) **Rao Gundu, S.,** Panem, C. and Vijaylaxmi, J., **2023**, A glance review on Data Science and its teaching: Challenges and solutions, in Advanced Mathematical Applications in Data Science. BENTHAM SCIENCE PUBLISHERS, pp. 80–91. https://doi.org/10.2174/9789815124842123010008

14) **Gundu, S.R.,** Panem, C. and Vijaylaxmi, J., **2023**, A Comprehensive Study on Cloud Computing and its Security Protocols and Performance Enhancement Using Artificial Intelligence. Robotic Process Automation, pp.1-17. https://doi.org/10.1002/9781394166954.ch1

15) Panem, C., **Gundu, S.R.** and Vijaylaxmi, J., **2023**, The Role of Machine Learning and Artificial Intelligence in Detecting the Malicious Use of Cyber Space. Robotic Process Automation, pp.19-32. https://doi.org/10.1002/9781394166954.ch2

16) **Gundu, S.R.,** Panem, C., Vijaylaxmi, J. and Dave, A., **2023**, Advanced Rival Combatant LIDAR-Guided Directed Energy Weapon Application System Using Hybrid Machine Learning. Robotic Process Automation, pp.33-46. https://doi.org/10.1002/9781394166954.ch3

17) **Gundu, S.R.,** Panem, C. and Vijaylaxmi, J., **2023**, An Impact on Strategical Advancement and Its Analysis of Training the Autonomous Unmanned Aerial Vehicles in Warfare [Theme-RPA and Machine Learning]. Robotic Process Automation, pp.47-60. https://doi.org/10.1002/9781394166954.ch4

18) **Gundu, S.R.,** Panem, C., **2022,** Sixth-Generation (6G) Mobile Cloud Security and Privacy Risks for AI System Using High-Performance Computing Implementation. Wireless Communications and Mobile Computing, Artificial Intelligence-Driven Sensing for Wireless Communications in Cyber-Physical Mobile Computing (Special Issue), Volume 2022 - Article ID 4397610, Hindawi Wireless Communications and Mobile Computing. **(Scopus Indexed)** https://doi.org/10.1155/2022/4397610

19) **Gundu, S.R.,** Panem, C., **2022**, High-Performance Computing-Based Scalable "Cloud Forensics-as-a-Service" Readiness Framework Factors—A Review, Cybersecurity and Network Security (Advances in Cyber Security),1st Edition, Wiley-Scrivener. **(Scopus Indexed)** https://doi.org/10.1002/9781119812555.ch2

D. BOOK CHAPTERS: (18 no.) (ACCEPTED)

1) **Gundu, S.R**., Panem, C., Vijaylaxmi, J., & Samanta, D., 2024, Crop Welfare and Security to Farmers. In: Advanced Technologies for Smart Agriculture, 1st ed., River Publishers, pp. 20. eBook ISBN 9781032628745.

2) **S. R. Gundu**, C. Panem, "Quantum Cryptography Implementation under various protocols in the Perspective of Contemporary Scenario", Applications of Quantum Computing in a Variety of domains, Accepted, Apple Academic Publishers, CRC, Press, January-2024.

3) **S. R. Gundu**, C. Panem, "Practical Quantum Cryptographic Architecture: A Perspective Approach", Applications of Quantum Computing in a Variety of domains Accepted, Apple Academic Publishers, CRC, Press, January-2024.

4) **S. R. Gundu**, C. Panem, "Advancements in AI for Cybersecurity: A Comprehensive Review of Latest Science and Engineering Trends", Accepted, Computational Intelligence: Theories, Applications and Solutions for Real Life Problems. Apple Academic Publishers, CRC, Press, January-2024.

5) **S. R. Gundu**, C. Panem, "Cyber Security-based Artificial Intelligence Healthcare Management System", Accepted, Securing the Digital World – A Comprehensive Guide to Multi-media Security. Apple Academic Publishers, CRC, Press, January-2024.

6) **S. R. Gundu**, C. Panem, "A taxonomical review on cloud security and its solutions", Accepted, Securing the Digital World – A Comprehensive Guide to Multi-media Security. Apple Academic Publishers, CRC, Press, January-2024.

7) **S. R. Gundu**, C. Panem, "Harnessing the aware of Cyber laws in view of cyber security", Accepted, Digital defence: Harnessing the Power of Artificial Intelligence for Cybersecurity and Digital Forensics. River Publishers, October-2023.

8) **S. R. Gundu**, C. Panem, "Advanced Rival Combatant Identification with Hybrid Machine Learning Techniques in war field", Accepted, Green Industrial Applications of Artificial Intelligence and Internet of Things. Bentham Science Publishers, April-2022.

9) **S. R. Gundu**, C. Panem, "A review of modern Brain Computer Interface investigations and limits", Handbook of Neural Engineering, Volume 2: Brain-Computer, 7/2023.

10) C. Panem,**S. R. Gundu**, Aditya M S, "A review of modern Brain Computer Interface investigations and limits", Building the metaverse : Immersive technologies and their applications, Scrivener-Wiley Publication, 3/2024.

E. RESEARCH PAPERS: (31 no.) (8 no. indexed in Scopus) (Q2 = 5 no.)

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1) Gundu, S.R., 2024, Exploring Conservative Laws in Synthetic Universes: A Theoretical and Computational Analysis. International Journal of Scientific Research in Physics and Applied Sciences, 12(4), pp. 25-37.

2) Gundu, S.R., 2024, N-Body Synthetic Projections in the Universe Using Kaluza-Klein Theory. International Journal of Scientific Research in Physics and Applied Sciences, 12(4), pp. 9-16.

3) Kadavakollu, P.S.U.N., Kumari, S., Gundu, S.R., 2024, Examining Cryptographic Primitives and Introducing the Periodic-Shift Cipher. International Journal of Scientific Research in Computer Science and Engineering, 12(4), pp. 8-17.

4) **Gundu, S.R**., Panem, C., Jonnalagadda, V.S., 2024, An Extensive Analysis of Contemporary Studies in Forensic Sciences in India. Current Forensic Sciences, 2(I), pp. 24-34. Bentham Science.

5) **Gundu, S.R**., 2024, Quantum Neural Networks: A Novel Architecture for Hybrid Quantum-Classical Algorithms. Research Square, PREPRINT (Version 1), available at [https://doi.org/10.21203/rs.3.rs-3951691/v1].

6) Panem, C.A., Jain, H., **Gundu, S.R.**, Debabratha, S., Sandeep, S., S., Chaminda, T., H., 2023.Machine-Learning-Based Spam Mail Detector.SN Computer Science, 4, pp.1-12. (Scopus Indexed) (Q2) https://doi.org/10.1007/s42979-023-02330-x **(Scopus Indexed)**

7) Purram, V., **Gundu, S.R.,** Panem, C., **2023,** The Subtle Origins of Modern Quantum Physics: An Analysis of Maya and the Vedic Concept of Consciousness. International Journal of Research Publication and Reviews, 4(9), pp. 2048–2064.

8) Purram, V., **Gundu, S.R.,** Panem, C., **2023,** The Indian Mathematical Philosophy and its overlooked connections: Fibonacci Numbers and their Fractal Properties. International Journal of Research Publication and Reviews, 4(9), pp. 2614-2627.

9) **Gundu, S.R.,** Panem, C., **2023,** Non-duality of Vedanta and Quantum Mechanics. International Journal of Research Publication and Reviews, 4(9), pp. 373-377.

10) **Gundu, S.R.,** Panem, C., **2022,** Delineating the Secret City Shambala and Through Aananda Bhairavee Tantra. International Journal of Research Publication and Reviews, 4(9), pp. 790-798.

11) **Gundu, S.R.,** Panem, C., **2022,** Demystified Secret of Brahma Prastara, Sri Chakra and the Universe. International Journal of Research Publication and Reviews, 4(9), pp. 3034-3042.

12) Panem, C., **Gundu, S.R.,** Vijaylaxmi, J., Samanta, D. and Shahrabi, K., **2022,** Scheduling in LoRa Gateways to Reduce Packet Loss. Mathematical Statistician and Engineering Applications, 71(4), pp.9490-9499. https://doi.org/10.17762/msea.v71i4.1744 **(Scopus Indexed)**

13) **Gundu, S.R.,** Panem, C., **2021,** A Scientific Study on Nava Padma Koulinee Yoga Sadhana. International Journal of Research Publication and Reviews, 4(9), pp. 1424-1435.

14) **Gundu, S.R.,** **2021,** Glimpses of decoded scientific, computational and technological prophecies of Bhagavadgeetha. International Journal of Advanced Scientific Technologies in Engineering and Management Sciences, 4(9), pp. 1 - 12.

15) **Gundu, S.R.,** Panem, C., T., **2021,** ARSM hybrid hash algorithm based optimal solution approach and implementation for improved cloud security defensive mechanism. International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS) 6(1). 2454-356. https://doi.org/10.22413/ijastems/2020/v7/i2/1

16) **Gundu, S.R.,** Panem, C.A., Thimmapuram, A. and Gad, R.S., **2022,** Emerging computational challenges in cloud computing and RTEAH algorithm-based solution. Journal of Ambient Intelligence and Humanized Computing, pp.1-15. **(Scopus Indexed)** https://doi.org/10.1007/s12652-021-03380-w

17) **Gundu, S.R.,** **2020,** Observed Mathematical Mysticism and Allegorical Phenomena in Rudraadhyaaya, International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS), Volume.6, Issue.12, pp.16 – 22.

18) **Gundu, S.R.,** **2020,** Sri Chakra: The Manifestation of neo-platonic cosmic allegorical mysticism- A Scientific Study, International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS), 6(12), pp.6-15.

19) **Gundu, S.R.,** **2020,** ROLE OF CONSERVATIVE LAWS IN IDENTIFYING THE COSMOS AS A SYSTEM OF SYMMETRICAL UNITY, International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS), 6(4), pp.1-8. https://doi.org/10.22413/ijastems/2020/v6/i4/49614

20) **Gundu, S.R.,** Panem, C.A. and Thimmapuram, A., **2020.** Real-time cloud-based load balance algorithms and an analysis. SN Computer Science, 1, pp.1-9. **(Scopus Indexed) (Q2)** https://doi.org/10.1007/s42979-020-00199-8

21) **Gundu, S.R.,** Panem, C.A. and Thimmapuram, A., **2020.** Intelligence Using Automata-Based Nature's Digital Philosophy. SN Computer Science, 1, pp.1-6. **(Scopus Indexed) (Q2)** https://doi.org/10.1007/s42979-020-00277-x

22) **Gundu, S.R.,** Panem, C.A. and Timmapuram, A., **2020.** Robotic technology-based cloud computing for improved services. SN Computer Science, 1(4), p.190. **(Scopus Indexed) (Q2)** https://doi.org/10.1007/s42979-020-00277-x

23) **Gundu, S.R.,** Panem, C.A. and Thimmapuram, A., **2020.** The Dynamic Computational Model and the New Era of Cloud Computation Using Microsoft Azure. SN Computer Science, 1(5), p. 264. **(Scopus Indexed) (Q2)** https://doi.org/10.1007/s42979-020-00276-y

24) **Gundu, S.R.,** Panem, C.A. and Thimmapuram, A., **2020.** Hybrid IT and multi cloud an emerging trend and improved performance in cloud computing. SN Computer Science, 1(5), p. 256. **(Scopus Indexed) (Q2)** https://doi.org/10.1007/s42979-020-00277-x

25) **Gundu, S.R.,** Panem, C., Thimmapuram, A., **2020,** Proposal of DPPM based IOT-Cloud convergent Monitoring system for focused seriation & tracing of 2019-nCoV, International

Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS), 6(5), pp.1-6. https://doi.org/10.22413/ijastems/2020/v6/i5/49615

26) **Gundu, S.R.,** Thimmapuram, A., **2020,** Improved Virtual Machine Load Balance using RTEAH Algorithm, Journal of Mechanics of Continua and Mathematical Sciences (JMCMS), 15(2), pp. 200-211. https://doi.org/10.26782/jmcms.2020.02.00018

27) **Gundu, S.R**., Thimmapuram, A., **2020,** Application of online scheduling: A Heuristic algorithm approach to the stochastic cloudlet request growth for the load the balancing in cloud computing environment, International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST), 6(3), pp. 42-47.

28) **Gundu, S.R**., Thimmapuram, A., **2019,** Improved Hybrid Algorithm Approach based Load Balancing Technique in Cloud Computing. Global journal of computer science and technology, Global Journal of Computer Science and Technology 19(2), pp. 35-42.

29) **Rao, G.S.** and Anuradha, T., **2018,** Improved implementation of hybrid approach in cloud environment. Network, 3(1), pp.3-312.

30) **Rao, G.S.** and Anuradha, T., **2018,** Improved hybrid approach for load balancing in virtual machine. International Journal of Computer Sciences and Engineering, 6(10), pp. 730-733.

31) **Rao, G.S.,** A Study of Quantum Cryptographic Architectures and It's An Efficient Implementations, International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume 3 Issue 7 July, 2014 pp. 7229-7233.

E. REVIEW PAPERS: (8 no.)

1) V. S. Jonnalagadda, **S. R. Gundu**, and C. Panem, "An Extensive Analysis of Contemporary Studies Forensics Sciences in India," Current Forensic Science, vol. 02. Bentham Science Publishers Ltd., Jun. 06, **2024**. doi: 10.2174/0126664844310900240520073926.

2) **Gundu, S.R.,** Arur, P.C. and Lamani, M.R., **2021,** Amalgamated cloud AI: Transpiring revolution in broadband cellular network standards., International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS),7(2), pp. 6-14. https://doi.org/10.22413/ijatest/2021/v6/i4/4

3) **Gundu, S.R.,** Panem, C.A., Thimmapuram, A., **2021**, OBSERVED ISSUES IN CLOUD-BASED WEB COMMERCE ADOPTION FOR THE FINANCIAL TRANSACTIONS IN HYDERABAD,16(9), pp.1-13. https://doi.org/10.26782/jmcms.2021.09.00001

4) **Gundu, S.R**. and Anuradha, T., **2020**, Digital Data Growth and the Philosophy of Digital Universe in View of Emerging Technologies. Int. J. Sci. Res. in Computer Science and Engineering, 8(2), pp. 59-64.

5) **Srinivasa Rao, G**. and Anuradha, T., **2020**, Selected basic cloud load balancing algorithms and their comparative analysis, International Journal of Advanced Trends in Engineering, Science and Technology,1(5), pp. 6-15.

6) **Gundu, S.R.,** Thimmapuram, A., **2020**, Comprehensive study on Load balancing for artificial intelligent cloud robot as- a- service (AICRaaS) in Virtual top classified test and training range, International Journal of Advanced Trends in Engineering, Science and Technology (IJATEST), 5(3), pp.1-6.

7) **Gundu, S.R.,** Ummadi, P.R., **2020**, Cyber Security Laws: With Reference to Cloud Computing Paradigm Implementation thereof in Telangana Region, International Journal of Innovative Science and Research Technology (IJISRT), 5(2), pp. 733-738.

8) **Gundu, S.R.,** Thimmapuram, A., **2020**, Analytic Review of Mathematical model for non-linear programming problem formulation: A novel Queuing Theory approach using stochastic cloudlet request evaluation in cloud computing environment, 5(2), pp. 1-6.

F. CONFERENCE PAPERS: (12 no.) (1 no. indexed in Scopus)

1) **Gundu, S.R.,** Panem, C.A., Advanced Home Security Management System Using Raspberry Pi, "2nd International Conference on Information Security, privacy & Digital Forensics", held at NFSU, Gandhinagar, 15-16 December 2023, Organized by National Forensics University, Gujrat

2) **Gundu, S.R.,** Panem, C.A., Scheduling in LoRa Gateways to Reduce Packet Loss, Online Conference International Conference on Internet of Things (ICIOT - **2022**), Online Conference Organized by Rochester Institute of Technology – Kosovo. **(Scopus Indexed)** https://doi.org/10.17762/msea.v71i4.1744

3) **Gundu, S.R**., Panem, C.A., Study into the cutting-edge advancements in Mathematics with reference to Computer science, **2022,** Conference Institute of Mechanics of Continua and Mathematical Sciences (IMCMS) Fifth International Two-Day Conference (Online) on Advanced Research and Development in Applied & Pure Mathematics and Computer Science (ARDAPMCS), Online Conference Organized by Journal of Mechanics of Continua and Mathematical Sciences, Calcutta, India. https://doi.org/10.26782/jmcms.2022.12.00004

4) **Gundu, S.R.,** Panem, C.A., Thimmapuram, A. and Gad, R.S., **2021.** Observed Issues In Cloud-Based Web Commerce Adoption For The Financial Transactions In Hyderabad. Journal of Mechanics of Continua and mathematical Sciences, pp. 1-13. https://doi.org/10.26782/jmcms.2021.09.00001

5) **Gundu, S.R.,** Improved Virtual Machine Load Balance using RTEAH Algorithm, ICEITEMS - **2019**, Malla Reddy Institute of Technology, Hyderabad, India. https://doi.org/10.26782/jmcms.2020.02.00018

6) **Gundu, S.R.,** Proficient capability of QKD in Wi-Fi network system implementation, International Conference on Communication and Electronics Systems (ICCES)(IEEE Conference) - **2016**, Osmania University, Hyderabad, India. https://doi.org/10.1109/CESYS.2016.7889981

7) **Gundu, S.R.,** Upcoming trends in the 'Security' of information and communication technologies in the new era and the new scenario, Conference NCICT-2015, Dravidian University, Andhra Pradesh,-India, (ISBN-978-93-84935-33-7), pp. 86-92.

8) **Gundu, S.R.,** Cloud Computing and its Impact on the use of Information and Communication, Technologies in Education Conference NCICT-2015, Dravidian University, Andhra Pradesh,-India, (ISBN-978-93-84935-33-7), pp. 64-72.

9) **Gundu, S.R.,** The life of Quantum Cryptography in view of a nuclear weapon used in a region, International Conference on Computing and Communication Technologies (IEEE Conference)-2014, Osmania University, Hyderabad, India, pp. 1-5. https://doi.org/10.1109/ICCCT2.2014.7066753

10) **Gundu, S.R.,** A study of various Quantum Cryptographic architecture and an efficient Implementation in present scenario and results BB84 Protocol – A practical overview, International Journal of Computer Applications, International Conference on Advances in Computer Engineering and Applications (ICACEA) - **2014**, IMS Engineering College, IMSEC, GZB, pp. 225-228.

11) **Gundu, S.R.,** An efficient implementation of quantum cryptography using a hierarchical structured architecture, International Journal of Computer Applications, International Conference on Advances in Computer Engineering and Applications (ICACEA) - **2014**, IMS Engineering College, IMSEC,GZB, pp. 8-11.

12) **Gundu, S.R.,** The View of a Better Implementation of Practical - Quantum Cryptographic Architecture, International Journal of Computer Applications, International Conference on Advances in Computer Engineering and Applications (ICACEA) - **2014**, IMS Engineering College, IMSEC, GZB, pp. 32-35.

G. ONGOING WORK AND PROBABLE OUTCOMES: (3 no.) (Aimed towards SCIE)

1. Panem, C.A., **Gundu, S.R.**, Surthanis, S, "Conversational AI in Cloud environment".
2. **Gundu, S.R.,** Panem, C.A., "AI based health care and cyber security".
3. Panem, C.A., **Gundu, S.R.,** Debabratha, S., "Cloud security, challenges and solutions".

ACHIEVEMENTS: (2 no.)

- Received <u>**Bharat Shiksha Gaurav Puraskar**</u> on 10th March, 2024, for **outstanding achievements and remarkable contribution in the field of Education** by KTK Outstanding Achievers and Education Foundation and Helium Production, New Delhi, India.
- Received <u>**Certificate of Education Excellence**</u> on 10th March, 2024, for **outstanding achievements and remarkable contribution in the field of Education**, by KTK Outstanding Achievers and Education Foundation and Helium Production, New Delhi, India.

Guest Lectures (01 no.)

1) **Guest Lecture** (The role of trending prospects in technologies for a prosperous tomorrow) at **Bankatlal Badruka College for Information Technology** (Affiliated to Osmania University) for Master of Science (M.Sc.), on 23rd February 2024 at Bankatlal Badruka College for Information Technology (BBCIT), Hyderabad, Telangana, India

CONFERENCES AND WORKSHOP PARTICIPATION (17 no.)

1) **Oral presentation on Quantum Cryptography** in Weekly Research Seminar held at **Malla Reddy University**, Organized by **R&D Cell**, on 19th August 2023
2) **Oral presentation** (A review on contemporary Advancements in Conversational AI within the Cloud Platform) at **International Conference (Virtual)** on Emerging Trends in Mathematical Sciences & Computing (IEMSC -24), 2024, organized by Institute of Engineering, Kolkata, India.
3) **Oral presentation** (AI based Healthcare Industry Implementation System using Cyber Security) at **International Conference (Virtual)** on Emerging Trends in Mathematical Sciences & Computing (IEMSC -24), 2024, organized by Institute of Engineering, Kolkata, India.
4) **Oral presentation** (Application of Deep Learning to the Localization of Brain Tumours) at **International Conference (Virtual)** on Emerging Trends in Mathematical Sciences & Computing (IEMSC -23), **2023**, organized by Institute of Engineering, Kolkata, India.
5) **Oral presentation** (Machine Learning based Spam mail detector) at **8th International Conference** on Cyber Security & Privacy in Communication Networks (ICCS), **2022**, Organized by **Cardiff Metropolitan University, UK.**
6) **Oral presentation** (Leveraging Technological Management: Secure Cyber Intelligence Based Health care Scenario with Self Driven Technologies Set (STDS)) at **7th Global Leadership Research Conference 2022** on "Leading in the New Reality: Insights into Actions", Organized by Amity Business School, Noida, India.
7) **Oral presentation** (Student centered learning mechanism in the class room environment) at **One Day Workshop 2022** on "Student Cantered Learning Techniques", Organized by IQAC, Vivekananda Degree College, Vidyanagar, Hyderabad, India.
8) **Keynote Speech** (Conspectus and prognostication of trendy and ensuring information technologies) at **7th International Conference** on Wireless, Telecommunications & IOT, **2021**, organized by UK: Conference Series LLC Ltd, 35 Ruddlesway, Windsor, Berkshire, SL45SF, **London, UK.**

9) **Oral presentation** (Aadi kavi nundi adhyatanaandhra kavula varaku Kavitha dhrukpathalu) at **National Conference** on Telugu Kavula Kavitha Dhrukpathalu - **2017**, Dravidian University, Andhra Pradesh, India.

10) **Oral presentation** (A new look at Big Data Technologies and its Applications in current trends) at **National Conference** NCBDTA-**2017**, Dravidian University, Andhra Pradesh, India.

11) **Oral presentation** (The Cloudlet User Request Growth Study with in a Cluster through Random Probability Distribution Model using Nonlinear Programming, Dynamic Scheduling and Queuing Theory) at **National Conference** NCRTIT - **2017**, Dravidian University, Andhra Pradesh, India.

12) **Oral presentation** (Dynamic Resource allocation using Virtual Machines for Cloud Computing Environment) at **National Conference** NCRTIT - **2017**, Dravidian University, Andhra Pradesh, -India.

13) **Oral presentation** (Big Data usage and it's Inquires in Biometric Science) at National Conference NCRTIT - **2017**, Dravidian University, Andhra Pradesh, India.

14) **Oral presentation** (The role of Information Technology in Human Resource Management: A way to look ahead) at **National Conference** NSSTIHDE - **2017**, Dravidian University, Andhra Pradesh, India.

15) **Oral presentation** (The scope of Research and Development in view of Open Access) at **National Conference** on "Open Access Resources for Academic Community" Sacred Heart College (Autonomous), **2017**, Vellore, Tamil Nadu, India.

16) **Oral presentation** (Aadhunika vidyaa vidhaanamu loni lotupaatlapai veyi padagala sameeksha) at **National Conference** "Veyyella telugu saahityam, bhaarateeya vidyaa vyavastha – Prathi phalanam" – **2017**, Dravidian University, Andhra Pradesh, India.

17) **Oral presentation** (Understanding and evaluating the grasping levels of graduate students in computer education in India) at **National Conference** NSRTTL - **2019**, Dravidian University, Andhra Pradesh, India.

ORGANIZATIONAL EXPERIENCE

1) Enacted as **R&D Co-Ordinator**, School of Sciences, Malla Reddy University, Hyderabad, Telangana, 2024.

2) Enacted as a **Web Development officer** in Government Degree college, Hyderabad during 2021 – 2023.

3) Played a **Key Role** in organizing a **Two-days National Conference** on "Social Transformation and inclusive Human Development through Education" on 29th - 30th March 2017, Dept. of Computer Science, Dravidian University, Kuppam, Andhra Pradesh, India.

4) Played a **Key Role** in organizing a **Two-days National Conference** on "Recent Trends in Information Technology **(NCRTIT-2017)"** on 17th - 18th March 2017, Dept. of Computer Science, Dravidian University, Kuppam, Andhra Pradesh, India.

5) Played a **Key Role** in organizing a **Two-days National Conference** on "Big Data Technologies & Applications **(NCBDTA-2017)"** on 15th - 16th March 2017, Dept. of Computer Science, Dravidian University, Kuppam, Andhra Pradesh, India.

6) Played a **Key Role** in organizing a **Two-days National Conference** on "Information and Communication Technologies **(NCICT- 2015)"** on 26th & 27th March 2015, Dept. of Computer Science, Dravidian University, Kuppam, Andhra Pradesh, India.

FUTURE PROSPECTS

- To enhance cyber security of von Neumann computing in social media networks by interfacing it with quantum computing

PERSONAL DETAILS

Full name	**:**	**Srinivasa Rao Gundu**
Father's name	**:**	**G. N. Manikya Rao**
Date of Birth	**:**	**11th Feb, 1978**
Marital status	**:**	Single
Blood group	**:**	A+
Nationality	**:**	Indian
Languages known	**:**	English, Hindi, Telugu

DECLARATION

I hereby declare that the information given above is true to the best of my knowledge and belief.

Yours sincerely,

Signature:

Place: Hyderabad

Print name: **Dr. Srinivasa Rao Gundu**

Date: 23th Oct, 2024