

### **Research Profile**

Dr. N.Sivarami Reddy

**Professor of Mechanical Engineering** and **Dean (Research and Development).** 

Annamacharya University

Email: <u>nsrr@aitsrajampet.ac.in</u>, siva.narapureddy@gmail.com Phone: 9848998645 ORCID: [https://orcid.org/0000-0003-2369-1257] |

Google Scholar: [https://scholar.google.com/citations?user=cefDKmwAAAAJ&hl=en]

### **RESEARCH & PROFESSIONAL PROFILE**

Dr. N Sivarami Reddy Graduated in Mechanical Engineering from Andhra University in 1989. He completed M.Tech (Advanced Manufacturing Engineering) at National Institute of Technology Karnataka, Surathkal in 1992. He pursued his Ph.D at research in JNTUA, Ananthapuramu in 2019. He has 33 years of experience in teaching and administration in engineering college and 11 years research experience. Currently he is a Professor of Mechanical Engineering and Dean (R&D) at Annamacharya University, Rajampet. He has 45 papers and 4 patents to his credit. His research areas include Manufacturing, Flexible Manufacturing Systems, Scheduling and Soft computing Techniques. With over 33 years of academic and research experience, Dr. N. Sivarami Reddy has made significant contributions to the field of manufacturing Technology.

As Dean, Dr. N. Sivarami Reddy provides strategic oversight, builds cross-disciplinary collaborations, secures external funding, and mentors a diverse team of researchers and graduate students.

### **RESEARCH INTERESTS**

Manufacturing, Flexible Manufacturing Systems, Scheduling and Soft computing Techniques **SELECTED PUBLICATIONS** 

1. **N. Sivarami Reddy** ,D.V. Ramamurthy,K. Prahlada Rao and M. Padma Lalitha, Pragmatic simultaneous scheduling of machines, AGVs, tool transporter and tools in a multi machine FMS using flower pollination algorithm", European Journal of Industrial Engineering, Vol. 18, No.5, 2024,pp. 728-771

2. Sunil Prayagi, Padma Lalitha Mareddy,Lakshmi Narasimhamu Katta and **Sivarami Reddy Narapureddy** "Optimum Scheduling of a Multi-Machine Flexible Manufacturing System Considering Job and Tool Transfer Times without Tool Delay", *Mathematics* 2023,*11*(19), 4190

3. Padma Lalitha Mareddy , **Sivarami Reddy Narapureddy** , Venkata Ramamurthy Dwivedula , Prahlada Rao Karanam "Development of scheduling methodology

in a multi-machine flexible manufacturing system without tool delay employing flower pollination algorithm", Engineering Applications of Artificial Intelligence 115 (2022) 105275

4. Padma Lalitha Mareddy, **Sivarami Reddy Narapureddy**, Venkata Ramamurthy Dwivedula, Prahlada Rao Karanam "Optimum scheduling of machines, automated guided vehicles and tools without tool delay in a multi-machine flexible manufacturing system using symbiotic organisms search algorithm", Concurrency and Computation: Practice and Experience, 2022, Volume34, Issue 15

5. **N. Sivarami Reddy**, D. V. Ramamurthy, M. Padma Lalitha & K. Prahlada Rao "Minimizing the total completion time on a multi-machine FMS using flower pollination algorithm" Soft Computing Vol.26, 2022, pp 1437–1458

6. **N. Sivarami Reddy**, D. V. Ramamurthy, K. Prahlada Rao & M. Padma Lalitha "Practical simultaneous scheduling of machines, AGVs, tool transporter and tools in a multimachine FMS using symbiotic organisms search algorithm" International Journal of Computer Integrated Manufacturing, Vol 34 (2), 2021 pp 153-174

7. **Dr.N.Sivarami Reddy**, Dr. M.Padma Lalitha,,Dr. S.P.Pandey, Dr. G.S.Venkatesh "Simultaneous scheduling of machines and tools in a multi machine FMS with alternative routing using symbiotic organisms search algorithm" Journal of Engg. Research, Vol 10 (3A), 2022

8. **Sivarami Reddy N**., V. Ramamurthy D, Prahlada Rao K. & Padma Lalitha M. Integrated scheduling of machines, AGVs and tools in multi-machine FMS using crow search algorithm, International Journal of Computer Integrated Manufacturing, 2019

**REVIEWER for** International Journal of Information Technology & Decision Making, Journal of Cleaner Production, vInternational Journal of Computational Intelligence and Applications (IJCIA), Knowledge-Based Systems, Journal of Computers & Industrial Engineering, Engineering Applications of Artificial Intelligence, Soft Computing, International Journal of Production Research

# **TEACHING & SUPERVISION**

**Subject taught:** Engineering Mechanics, Mechanics of Solids, Kinematics of Machinery, CNC, Production Technology, Advanced Machine Tools, Operations Research, Fluid Mechanics and Hydraulic machines, Data Structures through C, Operating Systems, Computer Networks, Systems Programming, Distributed Systems, Unix Programming, Advanced data Structures, OOPs through C++

# M.Tech Projectes Guided: 10

# No. of Scholars are pursuing Ph.D: 03

# HONORS & AWARDS

1. The **best paper award** by Joint International Conference on Intelligent Computing and Applications (ICICA 2016) and Power, Circuit and Information Technologies (ICPCIT 2016) organized by D.Y. Patil college of Engineering Pune and IRD, India Bhubaneswar

2. The **best paper award** in ADMMS'23 International Conference organized by SAE INDIA held at SRM Institute of Science and Technology, Kattankulathur, Tamilanadu.

3. Delivered a Talk on" Development of scheduling methodology in a multi-machine flexible manufacturing system without tool delay employing flower pollination algorithm" as a Distinguished Speaker at Virtual Event - 4th Global Summit on Future of Materials Science and Research held during November 08-09, 2022 at Los Vegas, USA.

4. Invited as a speaker on "Integrated simultaneous scheduling of machines, automated guided vehicles and tools in multi machine flexible manufacturing system using symbiotic organisms search algorithm" at MechResCon2023 scheduled to be held from March 23, 2023 to March 25, 2023 in Rome, Italy.

5. Invited as a speaker on "Advancing Industry 4.0: Smart Manufacturing for the Future" at at the World Summit and Expo on Industrial and Manufacturing Engineering (WSEIME2024) held during October 14-16, 2024, Valencia, Spain.

6. Invited as a speaker on" Industrial and Manufacturing System Technologies" at the 10<sup>th</sup> Annual Global Congress of Knowledge Economy (GCKE-2025) scheduled to be held during November 11-13, **2025**, Osaka, Japan