



Dr Hemalatha K N

E-mail: knhemalatha@gmail.com

Profile URL :

<https://vidwan.inflibnet.ac.in/profile/156176>

Orcid Id: 0000-0003-3551-5517

Phone: ,

Address: Bangalore ,Karnataka,India - 560072

Expertise

Electrical and Electronic Engineering

Areas of interest include digital design, analog & mixed mode VLSI design , Verilog HDL, CMOS VLSI design, Analog Electronics, reversible logic

Work experience

1. Dr Ambedkar Institute of Technology, Bengaluru 2007 — Present

Assistant Professor
Bengaluru

Education

1. Ph.D - 2023

RNS Institute of Technology

Membership In Professional Bodies

1. ISTE, 2020
Life member
2. ISSS, 2010 Life Member, 2010
Life member
3. CRSI, 2010
Life member

Membership In Committees

Publication

1. State-Of-The-Art On Reversible Multiplier Architectures and Its Comparison for Future Quantum Computing
Hemalatha K N, Sangeetha B G
Gazi University Journal of Science, Volume , Year 2023, Pages
2. Design and Implementation of 64-Bit Ripple Carry Adder and Ripple Borrow Subtractor Using Reversible Logic Gates
Hemalatha K N, Aishwarya Kamakodi, A Soppia, A Poornima, Sangeetha B G
Int. J. Advanced Networking and Applications, Volume Volume: 13 Issue: 06, Year 2022, Pages 5215-5219
3. Efficient Design of Compact 8-bit Wallace Tree Multiplier Using Reversible Logic
Hemalatha K N, Sangeetha B G
I. J. Engineering and Manufacturing, Volume , Year 2022, Pages 29-36
4. Optimized 64-bit Reversible BCD Adder for Low-power Applications and Its Comparative Study
Hemalatha K N, Girija S, Sangeetha B G
Proceedings of the International Conference on Computational Intelligence and Sustainable Technologies ICoCIST 2021, Volume , Year 2021, Pages
5. Ultra-Optimized 8-bit Unsigned Array Multiplier design using Reversible Logic
Hemalatha K N, Sangeetha B G
GIS SCIENCE JOURNAL, Volume VOLUME 8, ISSUE 1,, Year 2021, Pages 1105-1110

6. Performance Analysis of Array Multiplier Using Reversible Logic

Hemalatha K N, Sangeetha B G

Microelectronics, Communication Systems, Machine Learning and Internet of Things Select Proceedings of MCM 2020, Volume , Year 2020, Pages