Charudatta Gurudas Korde

Research Scholar(PhD) National Institute of Technology Farmagudi, Ponda, Goa

CONTACT DETAIL

Mobile: 8275381582

E-mail: korde.charudatta@gmail.com

LinkedIn: linkedin.com/in/charudatta-korde-089857139

ORCID: 0000-0003-0055-4997

Adress: H.No. 1055, Primior Bairo, Santacruz, Tiswadi, Goa, 403005.

RESEARCH INTERESTS

Digital VLSI design, Machine Learning, Deep Neural Network, Field Programmable Gate Arrays.

ACADEMIC PROJECTS

TITLE FPGA based algorithm implementation.

TOOL MATLAB, Spyder, Vivado

DESCRIPTION To design Generative Adversarial Network(GAN) and its variant using python

based Deep Neural Network(DNN) library namely Keras. The studies is conducted by varying parameters of GANs to get stable and robust network. The designed network will be implemented on FPGA to reduce power consumption

and to get speed up comparable to GPU.

PUBLICATIONS

- 2021 K. G. Shreeharsha, C. G. Korde, M. H. Vasantha and Y. B. Nithin Kumar, "Training of Generative Adversarial Networks using Particle Swarm Optimization Algorithm", *Proceedings in 2021 IEEE International Symposium on Smart Electronic Systems (iSES)*.
- 2019 C. G. Korde, M. Reddy K., V. M. H. and N. K. Y. B, "Training of Generative Adversarial Networks with Hybrid Evolutionary Optimization Technique", *Proceedings in 2019 IEEE 16th India Council International Conference (INDICON)*.
- 2018 Barve, S Raveendran S, Korde C ,Panigrahi T, Nithin Kumar Y, Vasantha M, "FPGA implementation of square and cube architecture using vedic mathematics", *Proceedings in 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018.*
- 2017 Korde C. G., Chandrasekhar, E. and Shenvi, N., "Multifractal analysis of ionospheric disturbances triggered by earthquakes", *Proceedings 18th Annual conference of the International Association of Mathematical Geosciences (IAMG 2017)*, Perth, Australia, September, 2017(POSTER).
- 2015 Korde C. G., Khedekar V. G., Rane K. P., Nayak A., Mahaddalkar S., "Implementation of FPGA Based Pre-Processing Algorithms for Devnagri Script Recognition Systems", *Proceedings in 2018 IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, pp. 164-169, Goa, India, 2015.

EDUCATIONAL QUALIFICATIONS

YEAR	Degree and Institute	GRADE
2018 - Present	PhD in VLSI	CGPA: 8.6/10
	National Institute of Technology, Goa	
2015 - 2017	Master of Engineering in Microelectronics	CGPA: 8.0/10
	Goa College of Engineering, Goa.	
2011 - 2015	Bachelor of Technology in EEE	Percentage: 76%
	Goa College of Engineering, Goa.	

TECHNICAL SKILLS

LANGUAGES MATLAB, Verilog, Python, C, Julia, VHDL, Cuda.

HARDWARE PLATFORMS Nvidia GPU, Raspberry Pi, Arduino, FPGA (Basys 3, ZedBoard).

TOOLS Quartus, MATLAB, Vivado HLX, Spyder (Anaconda).

FEILDS Deep Neural Networks, Machine Vision - Image Processing,

Evolutionary Algorithms, Fuzzy Logic, Cryptography and Network

Security, Neural Networks, Fractals.

WORK EXPERIENCE

SEPTEMBER 2019 - MARCH 2020

TITLE Software Validation Engineer TOOL Quartus 19.3, 19.4, 20.1

DESCRIPTION I interned with Intel Banglore Bellandur SSR4. I worked on testing and valida-

tion of the Quartus tool for Partial Reconfiguration and Heraichial Design flows.

WORK

o Github: https://github.com/charudatta10

Website: https://deathsta.webs.com/

REFERENCES

Dr. M.H. Vasantha
Associate professor, Dept. of ECE, NIT Goa
Email: vasanthmh@nitgoa.ac.in

Dr. Y.B.Nithin Kumar Associate professor, Dept. of ECE, NIT Goa Email: nithin.shastri@gmail.com