



Dr. Eedi Hemalatha

B.Tech.(CSE), M.Tech.(CSE), Ph.D.(CS)(IITH)

Associate Professor, Officer-Incharge-Examinations, GIAN Local Coordinator

Computer Science & Engineering

Areas of Interest:

Parallel, Concurrent and Distributed Computing

High Performance Computing

Parallel Graph Algorithms

Machine Learning

I started my career as a Faculty member in the Department of Computer Science and Engineering, CBIT, Hyderabad in the year 2005 and joined in JNTUHCEH as Assistant Professor in the Department of CSE in the year 2006. My areas of research interest includes Parallel, Concurrent and Distributed Computing, HPC, Grid & Cloud Computing and Parallel Graph Algorithms. Teaching interests include Computer Programming, Data Structures, Operating Systems, Linux Internals, Scripting Languages, Parallel Computing, HPC, Cloud Computing.

- ▶ Educational & Professional

- ▶ Academic Qualifications

- ▶ Ph.D. in Parallel Graph Algorithms, Indian Institute of Technology Hyderabad(IITH) (2015-2022)

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M.Tech in Computer Science and Engineering, JNTUH with Distinction (2006-2009)

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B.Tech in Computer Science and Engineering, JNTUH with Distinction (2000-2004)

▶ Professional Experience

- ▶ Teaching Experience

- ▶ Assistant Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad (21-11-2005 - 15-11-2006)

- ▶ At JNTUH

- ▶ Associate Professor, JNTUH (2019 - Till Date)

- ▶ Assistant Professor, JNTUH (2006 - 2019)

- ▶ Research

- ▶ Research Projects

- ▶ *Cyber Security Intelligence System*, funded by TEQIP-III, JNTUH - Rs. 275000 (2019 - 2021)

- ▶ *Modeling Distributed Databases using Ontology*, funded by TEQIP-III, JNTUH - Rs. 300000 (2019 - 2021)

- ▶ Publications

- International Journals

- ▶ *Detecting Phishing Websites Using Data Analytic Methods*, International Journal of Research (IJR) March 2019 International Journal of Innovative Technology and Exploring Engineering (IJITEE), November 2019, ISBN No.2236-6124, Issue No.63072, pp.222-229, March, 2019
- ▶ *OTA Firmware Update for Texas Instruments C2000 Controllers*, International Journal of Innovative Technology and Exploring Engineering (IJITEE), November 2019, ISBN No.2278-3075, pp.230-238, November, 2019
- ▶ *A Deep Convolutional Neural Network Framework for Lung Cancer Detection.*, International Journal of Recent Technology and Engineering (IJRTE), November 2019, ISBN No.2277-3878, pp.239-244, November, 2019
- ▶ *Artificial Music Generation using LSTM Networks*, International Journal of Engineering and Advanced Technology (IJEAT), December 2019, ISBN No.2249-8958, pp.245-251, December, 2019
- ▶ *Improved Search Engine Optimization Using GPUS.*, International Journal of Research (IJR), April 2018, ISBN No.2236-6124, Issue No.63072, pp.207-213, IJR, April, 2018
- ▶ *Improvising Needleman -Wunsch Algorithm Using Multithreading Approach on Shared Memory Architecture.*, Journal of Applied Science and Computations (JASC), ISBN No.1076-5131, Issue No.41238, pp.214-221, JASC, March, 2018
- ▶ *Implementation of Parallel Shamir's Secret Sharing Algorithm Using Multithreaded Approach on Shared Memory Architecture*, pp. 471-475, Journal of Advanced in Management, Technology and Engineering Sciences, ISBN No.2249-7455, Issue No.45550, pp.200-206, IJAMTES, December, 2017
- ▶ *Implementation of Parallel Shamir's Secret Sharing Algorithm Using Multithreaded Approach on Shared Memory Architecture*, International Journal of Advanced in Management, Technology and Engineering Sciences (IJAMTES, ISBN No. 2249-7455, pp.471-475, December, 2017
- ▶ *Implementation of Multi-Threaded BFS Using Bag Data Structure.*, Soft Computing and Signal Processing, Advances in Intelligent Systems and Computing 900, ISBN No.978-981-13-3393-4, pp.252-264
- ▶ *Needleman's Wunsch Algorithm Using Multi-threading Approach*, Proceedings of the Third International Conference on Computational Intelligence and Informatics, Advances in Intelligent Systems and Computing 1090, ISBN No.978-981-15-1480-7, pp.265-279
- ▶ *Parallel PageRank Algorithm Using MapReduce*, ICDSMLA 2019, Lecture Notes in Electrical Engineering 601, ISBN No.978-981-15-1420-3, pp.280-291

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International Conference

- ▶ Hemalatha Eedi, Abdul Rasheed, *Implementation of Multi-Threaded BFS using Bag Data Structure*, Soft Computing and Signal Processing, ISBN No.978-981-13-3599-0, Vol No.900, pp.399-408, Springer, Singapore, January, 2019
- ▶ Hemalatha Eedi, Manoj Kumar Kokkula, *Parallel Page-Rank Algorithm using Map-Reduce*, Data Science, Machine Learning & Applications (ICDSMLA) , March, 2019
- ▶ Sai Reetika Perumalla, Hemalatha Eedi, *Needleman-Wunsch Algorithm using Multi-Threading Approach*, Computational Intelligence and Informatics, September, 2017

-> **Events Participated/Organized**

- **Co-ordinated**

- > Coordinated for a Workshop on *Cyber Security and Forensics*, UGC-HRDC, JNTU, Hyderabad., 26-07-2021 to 31-07-2021
- > Coordinated for a Refresher Course on *CYBER SECURITY AND FORENSICS*, UGC-HRDC, JNTU, Hyderabad., 15-06-2020 to 20-06-2020
- > Coordinated for a FDP on *Blockchain Technology*, UGC-HRDC, JNTU, Hyderabad., 27-01-2020 to 31-01-2020
- > Coordinated for a FDP on *Programming for Problem Solving – A Pedagogical Approach*, UGC-HRDC, JNTU, Hyderabad., 22-07-2019 to 26-07-2019
- > Coordinated for a Conference on *Awareness Program for University Drivers – JNTUH*, Director of Admissions Building, JNTUH, Kukatpally, Hyderabad., 30-12-2018
- > Coordinated for a Orientation Course on *Internet of Things*, UGC-HRDC, JNTU, Hyderabad., 03-12-2018 to 22-12-2018
- > Coordinated for a Orientation Course on *Internet of Things*, UGC-HRDC, JNTU, Hyderabad., 03-12-2018 to 22-12-2018
- > Coordinated for a Symposium on *3K RUN on Cancer Awareness*, JNTUHCEH, 11-03-2018
- > Coordinated for a Workshop on *Hackathon on Data Science*, Dept. of CSE, JNTUHCEH, 03-03-2018 to 04-03-2018
- > Coordinated for a Orientation Course on *Strategies for Research Oriented Teaching*, UGC-HRDC, JNTU, Hyderabad., 05-06-2017 to 24-06-2017
- > Coordinated for a Refresher Course on *The Current Technology Trends in Information Technology*, UGC-HRDC, JNTUH, 09-06-2014 to 28-06-2014

- **Participated**

- > Participated in a Orientation Course on *MACHINE LEARNING*, UGC-HRDC, JNTU, Hyderabad., 15-03-2021 to 20-03-2021
- > Participated in a Workshop on *Machine Learning using Python*, IIM Bangalore., 26-06-2020 to 28-06-2020
- > Participated in a Training on *ONE-WEEK ONLINE SHORT TERM COURSE ON CYBER SECURITY AND FORENSICS*, UGC-HRDC, JNTU, Hyderabad., 15-06-2020 to 20-06-2020
- > Participated in a Conference on *Recent Trends in Computational Intelligence and Security*, Dept. of CSE, JNTUHCEH, 27-12-2018
- > Participated in a Refresher Course on *Internet of Things*, UGC-HRDC, JNTU, Hyderabad., 27-12-2018
- > Participated in a Training on *Ethical Hacking*, Dept. of CSE, JNTUHCEH, 14-05-2018 to 25-05-2018
- > Participated in a Tutorial on *Machine Learning and Evolutionary Optimization – Foundations, Recent Trends and Future Challenges*, Dept. of CSE, JNTUHCEH, 24-03-2018 to 25-03-2018
- > Participated in a Orientation Course on *Programming Multicores, GPUs and Accelerators: A Principled, Quantitative Approach*, Dept. of CSE, IITH., 05-03-2018 to 09-03-2018
- > Participated in a Workshop on *NBA Accreditation (SAR Filling and Preparedness for Assessment)*, UGC-HRDC, JNTU, Hyderabad., 14-12-2017 to 16-12-2017
- > Participated in a Tutorial on *2nd International Conference on Computation Intelligence and Informatics*, JNTUH CEH., 26-09-2017 to 27-09-2017
- > Participated in a FDP on *Parallel Programming for HPC Systems*, SERC, IISc Bangalore, 11-09-2017 to 16-09-2017
- > Participated in a Workshop on *Two days Research workshop*, IIIT Hyderabad, 26-08-2017 to 27-07-2017
- > Participated in a FDP on *Strategies for Research Oriented Teaching*, UGC-HRDC, JNTUH, 05-06-2017 to 24-06-2017
- > Participated in a Training on *Strategies for Research Oriented Teaching*, UGC-HRDC, JNTU, Hyderabad., 05-06-2017 to 24-06-2017
- > Participated in a Training on *E-Learning*, UGC-ASC, JNTUH, 04-11-2013 to 09-11-2013
- > Participated in a Refresher Course on *Software Engineering and Design Patterns*, UGC-ASC, JNTUH, 03-03-2011 to 22-03-2011
- > Participated in a FDP on *Linux Internals and Driver Development*, CDAC-Hyderabad, 16-02-2009 to 27-02-2009
- > Participated in a Orientation Course on *11th Orientation Course*, UGC-ASC, JNTUH, 07-05-2007 to 02-06-2007

- ▶ **Teaching**

- ▶ Embedded Programming in ECE M.Tech. I Year I Sem (2023-2024)
- ▶ Database Programming using PL/SQL in CSE M.Tech. I Year I Sem (2023-2024)
- ▶ Cyber Security in Mechanical B.Tech. III-II (2023-2024)

- ▶ **Administrative Positions Held**

- ▶ Officer In-Charge of Examinations, JNTUH-UCESTH, 31 Jul 2023 - Present
- ▶ IT-Services Co-coordinator, JNTUH College of Engineering, 01 Dec 2017 - Present
- ▶ GIAN Local Coordinator(Institute Level), JNTUH-UCESTH, 24 Feb 2023 - Present
- ▶ Officer-In-Charge of Examinations, JNTUH College of Engineering, 01 Aug 2019 - 31 Aug 2020

Contact :

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Computer Science & Engineering

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