Kiran Kumar Kondru

PhD Scholar · Computer Science

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⌂ https://kkondru.github.io/ | 🔗 https://www.linkedin.com/in/kirankumarkondru/

Education

Central University of Tamil Nadu   *Thiruvarur, Tamil Nadu*
[PhD Computer Science]   *Date - present*
- Advisor: Dr. R Saranya

Hindu College PG Courses   *Guntur, Andhra Pradesh*
Master of Computer Applications   *Date - 2003 - 06*
- Affiliated to Acharya Nagarjuna University

JKC College   *Guntur, Andhra Pradesh*
Bachelor of Computer Applications   *Dates - 2000 - 03*
- Affiliated to Acharya Nagarjuna University

Professional Experience

2017-till date	**PhD in Computer Science**, Central University of Tamil Nadu, Thiruvarur, India
Apr 2009 - Dec 2009	**Software Engineer 2**, Progress Software Development LTd, Hyderabad
Mar 2007 - Apr 2009	**Member, Technical Staff, Development**, Commvault Systems(INDIA) Pvt Ltd, Hyderabad

Publications

Journal Publications

Kondru, Kiran Kumar and Saranya Rajiakodi. "RaftOptima: An Optimised Raft with enhanced Fault Tolerance, and increased Scalability with low latency." IEEE Access (2024).

Kondru, Kiran Kumar, R. Saranya, and Annamma Chacko. "A Review of distributed supercomputing platforms using Blockchain." Advances in Distributed Computing and Machine Learning: Proceedings of ICADCML 2020 (2021): 123-133.

Kondru, Kiran Kumar and R. Saranya. "Directed acyclic graph-based distributed ledgers—an evolutionary perspective." Int J Eng Adv Technol (IJEAT) 9.1 (2019).

Kondru, Kiran Kumar and R. Saranya. "Exploring the Limits of Raft's Fault Tolerance: Insights from Simulated Network Partitions," International Journal of Intelligent Systems and Applications in Engineering, vol. 12, no. 22S, pp. 838–850, 2024, [Online]. Available: https://ijisae.org/index.php/IJISAE/article/view/6564/5414

In Review

Kondru, Kiran Kumar and R. Saranya. "Surveying the Raft Landscape: Fault Tolerance, Performance, and Blockchain Adaptability"

Awards, Fellowships, & Grants

2015	**NET Junior Research Fellow**, University Grants Commission
2014	**NET for Assistant Professor**, University Grants Commission
2013	**APSET for Assistant Professor**, Osmania University on behalf of Govt of AP and UGC

Presentations

CONFERENCE PRESENTATIONS

Kondru, Kiran Kumar and Saranya Rajiakodi. "Improving scalability of permissioned blockchains by making Raft Orderer to understand the underlying network topology." Proceedings of the 1st International Conference on Artificial Intelligence, Communication, IoT, Data Engineering and Security, IACIDS 2023, 23-25 November 2023, Lavasa, Pune, India. 2024.

Evanjalin, A. Beulah, R. Saranya, and **Kiran Kumar, Kondru**. "Illustration of a Parallel and Discrete Event Simulator using Scala." 2021 First International Conference on Advances in Computing and Future Communication Technologies (ICACFCT). IEEE, 2021.

Kiran Kumar, Kondru and Dr R Saranya. K. K. Kumar and D. R. Saranya, "The Evolution of Blockchain – From Chain of Blocks to Direct Acyclic Graphs," in National Conference on Blockchain and Smart Contract Technologies (BSCIT 2019), Dr. K. Singh, Ed., National Conference on Blockchain and Smart Contract Technologies, Nov 7-10, 2019, pp. 18–23.

TALKS AND SEMINIARS

June 2020. *Demonstration of Raft Algorithm using Python*. Invited talk: Webinar that I presented online demonstrating a simple distributed key-value store which runs Raft consensus algorithm

Mar 2019. *A brief overview of consensus algorithms used in blockchain*. Presented a seminar at the Department of Computer Science as part of PhD Forum at Central University of Tamil Nadu, Thiruvarur

Oct 2018. *Blockchain, An Introduction*. Presented a seminar titled at the Department of Computer Science as part of PhD Forum at Central University of Tamil Nadu, Thiruvarur

Aug 2018. *Petri Nets and It's Applications*. Presented a seminar about at the Department of Computer Science as part of PhD Forum at Central University of Tamil Nadu, Thiruvarur

Apr 2018. *An Introduction to Volunteer Computing*. Presented a seminar at the Department of Computer Science as part of PhD Forum at Central University of Tamil Nadu, Thiruvarur

Teaching Experience

Aug 2024	**Bridge Course**, Taught Logic in Computer Science for a bridge course to Masters students
Nov 2023	**Python**, Taught Object oriented concepts along with lab assignments
Apr 2022	**UGC NET Coaching**, Taught Programming concepts for Master's students for UGC NET examination

SKILLS

	Bridge Course, Taught Logic in Computer Science for a bridge course to Masters students
Nov 2023	**Python**, Taught Object oriented concepts along with lab assignments
Apr 2022	**UGC NET Coaching**, Taught Programming concepts for Master's students for UGC NET examination

Outreach & Professional Development

SERVICE AND OUTREACH

2023	**Women's Day Poster Presentation** , Pioneering Women of Computer Science	*Central University of Tamil Nadu*

DEVELOPMENT

Workshop I Participated In, and an explanation of this workshop, what I learned from it, and why I consider it to be professional development.

PEER REVIEW

One journal I review for
Another journal

Professional Memberships

IEEE Member
ACM Member