

Faculty Profile

Name: Dr. Jakkepalli Pavan Kumar

Designation: Assistant Professor

Teaching Areas: Data Structures, Algorithms, Data Base Management Systems,
Programming in C/C++/Java, Computer Networks,
Theoretical Computer Science

Research Interests: Graph Theory, Algorithms, Computer Networks



Education: Ph.D from National Institute of Technology, Warangal (2015-2020).

M.Tech from Aurora's Technological and Research Institute, Hyderabad (2009- 2011).

B.Tech from Anurag Engineering College, Kodad (2005-2009)

Professional Experience: [Total 5 years]

Assistant Professor at Faculty of Science and Technology (IcfaiTech), IFHE, Hyderabad Feb,2021- till date

Assistant Professor at Kakatiya Institute of Technology and Science, Warangal from Mar,2020- Jan,2021

Assistant Professor at Malla Reddy Engineering College, Hyderabad from Oct,2011- June,2015

Research Publications:

- J. Pavan Kumar and P. Venkata Subba Reddy, "**Algorithmic Aspects of Secure Connected Domination in Graphs**", *Discussiones Mathematicae Graph Theory*, Sciendo (Article in press). <https://doi.org/10.7151/dmgt.2260> (SCI indexed)
- J. Pavan Kumar and P. Venkata Subba Reddy, "**Algorithmic Aspects of Some Variants of Domination in Graphs**", *Analele Universitatii "Ovidius" Constanta-Seria Matematica*, Sciendo, Vol.3, 2020. <https://doi.org/10.2478/auom-2020-0039> (SCI indexed)
- J. Pavan Kumar, P. Venkata Subba Reddy and S. Arumugam, "**Algorithmic Complexity of Secure Connected Domination in Graphs**", *AKCE International Journal of Graphs and Combinatorics*, Taylor & Francis, 2019 (Article in press) <https://doi.org/10.1016/j.akcej.2019.08.012> (SCI indexed)
- J. Pavan Kumar and P. Venkata Subba Reddy, "**Algorithmic Aspects of 2-Secure Domination in Graphs**", *Journal of Combinatorial Optimization*, Springer, 2021. (SCI indexed)
- J. Pavan Kumar and P. Venkata Subba Reddy, "**Algorithmic Complexity of Isolate Secure Domination in Graphs**", *TWMS Journal of Applied and Engineering Mathematics*, Jan, 2021 (SCOPUS indexed)
- J. Pavan Kumar and Madhuri Birthare, "**A Note on Foolproof Secure Domination in Graphs**", *Proceedings of 13th Annual ADMA Conference & Graph Theory Day-XIII June 08-10, 2017, held at SSN College of Engineering, Chennai, India.*
- D. Lad, P. Venkata Subba Reddy, and J. Pavan Kumar, "**Complexity Issues of Variants of Secure Domination in Graphs**" *Electronic Notes in Discrete Mathematics* 63 (2017): 77-84. <https://doi.org/10.1016/j.endm.2017.11.001>