



## **Dr. Athota Kavitha**

M.Tech.(CS), Ph.D.(CS)

**Associate Professor**

**SMIEEE, MACM, MIETE**

Computer Science & Engineering

### **Areas of Interest:**

Areas of interest are Qos in Wireless Networks, High Speed Networks, Algorithms and Blockchain Technology, . Courses taught include Advanced Algorithms, Computer Networks, Systems and Network Security, Advanced Computer Architecture, Operating System, Mobile Computing, Software Engineering, Object Oriented Analysis and Design, Middleware Technologies.

Dr. A. Kavitha has started teaching as a career in the year 2003 at JNTU College of Engineering, Hyderabad. She holds B.Tech., M.Tech. and Ph.D. degrees in Computer Science. She did B.Tech and M.Tech. from JNTU, Hyderabad and Ph.D. from University of Hyderabad.

### **-> Educational & Professional**

#### **-> Academic Qualifications**

-> Ph.D. in Wireless Networks, University of Hyderabad (2005-2014)

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M.Tech. in Computer Science, School of IT, JNTUH with Distinction (2002-2004)

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B.Tech. in Computer Science and Engineering, Jawaharlal Nehru Technological University, Hyderabad with Ist Class with Distinction (1997-2001)

#### **▶ Professional Experience**

#### **-> At JNTUH**

-> Assistant Professor, JNTUH College of Engineering, JNTUH (2003 - Till Date)

#### **-> Research**

#### **-> Research Projects**

-> *QoS Support for Realtime Traffic over MANETs*, funded by AICTE - 6.9 Lakhs (2007 - 2012)

#### **-> Books**

-> G Kiran Kumar and Kavitha Athota, *A Book Chapter titled "A Video Content Analysis using Deep Learning Methods" in the book titled " Intelligent Systems and Machine Learning"*, Springer Nature, 978-3-031-35080-1, 2022

-> Srinivas Naik, Kavitha Athota et.al., *A Book chapter titled "DAGE: A Deviation Assessment-Based Grey-Hole Detection Method for Ad Hoc Wireless Networks" in the book titled "Next Generation Systems and Networks"*, Springer Nature, 978-981-99-0482-2, 2022

-> Deepika Nasika and Kavitha Athota, *A Book Chapter titled " Energy Aware Cross-Layer Routing Protocol for Body-to-Body Network in Healthcare" published in the book "Reconnoitering the Landscape of Edge Intelligence in Healthcare"*, Apple Academic Press, 9781774914366, 2022

#### **-> Publications**

##### **- International Journals**

-> A. Kavitha et al., *Security in IoT Mesh Networks Based on Trust Similarity*, IEEE Access, Vol No.vol. 10, , 2022, Issue No.doi: 10.1109/ACCESS.2022.3220678., pp.121712-121724, IEEE, 2022

-> Jameela T, A Kavitha et.al., *Deep Learning and Transfer Learning for Malaria Detection*, Computational Intelligence and Neuro Sciences, ISBN No.doi: 10.1155/2022/2221728, Vol No.2022, Hindawi, June, 2022

-> Kavitha Athota, Atul Negi, *A topology preserving cluster-based channel assignment for wireless mesh networks*, International Journal of Communication Systems, ISBN No.1099-1131, Vol No.28, pp.1862-1883, John Wiley & Sons, May, 2014

## International Conference

- ▶ Kavitha Athota, Atul Negi, *A Topology-aware Contributory Load based Channel Assignment algorithm for WMN*, Eleventh International Conference on Wireless and Optical Communications Networks (WOCN), ISBN No.978-1-4799-3155-2, pp.1-5, IEEE, September, 2014
- ▶ Kavitha Athota, Atul Negi, Andre Rossi, *A Contributory Load based Channel Assignment for Wireless Mesh Networks*, International Conference on Communication and Computing (ICC - 2014), ISBN No.978-93-5107-244-7, pp.188-194, Elsevier, June, 2014
- ▶ Kavitha Athota, StalinBabu G and Atul Negi, *Performance analysis of routing metric for MultiRadio MultiChannel WMN*, International conference on Communications in Computer and information Science, Vol No.270, pp.709-717, CCIS, Springer, 2012
- ▶ Jyothi K P T and Kavitha Athota, *Performance Analysis of IEEE 802.11e over WMNs*, Second World Congress on Information and Communication Technologies, pp.662-665, IEEE, 2012
- ▶ Kavitha Athota, Atul Negi and C Raghavendra Rao , *Interference-traffic aware Channel Assignment for MRMC WMN*, Second International Advance Computing Conference, pp.273-278, IEEE, 2010
- ▶ S Agrawal, Kavitha Athota et.al., *Session reports for SIGCOMM*, Computer Communication Review, pp.66-83, ACM, 2010
- ▶ Raju B, Athota Kavitha and Atul Negi, *A Distributed Cluster based Interference-traffic aware CA for MRMC WMN*, Fifth International Conference on Wireless Communication and Sensor Networks, pp.158-163, IEEE, 2009

## - ▶ Events Participated/Organized

### - Organized

- ▶ Organized a Refresher Course on Wireless Sensor Networks and Underlying Characteristics, JNTUH, Hyderabad, 14-12-2016 to 23-12-2016
- ▶ Organized a Workshop on Design and Development of Small Satellites, JNTUH College of Engineering, 26-08-2016 to 27-08-2016
- ▶ Organized a Workshop on Machine Learning with Python, Department of CSE, JNTUHCEH in association with IEEE CIS chapter, IEEE Hyderabad Section, 15-07-2016 to 16-07-2016
- ▶ Organized a FDP on Software Engineering, JNTUH, Hyderabad, 22-03-2016 to 27-03-2016
- ▶ Organized a Workshop on Software Engineering, JNTUH College of Engineering, 22-03-2016 to 27-03-2016

### - Resource Person

- ▶ Resource Person in a Tutorial on *Information Technology - Fundamentals for 62nd Batch of IRS*, NADT, Nagpur, 27-04-2010

### - Participated

- ▶ Participated in a FDP on *Algorithms*, JNTUH, Hyderabad, 20-09-2016 to 27-09-2016
- ▶ Participated in a Refresher Course on *10-day GIAN course on Wireless Sensor Networks : Network Architectures, Protocols and Applications*, NIT Warangal, 30-05-2016 to 08-06-2016
- ▶ Participated in a Workshop on *Wireless Sensor Networks: Network Architectures, Protocols and Applications*, NIT Warangal, 30-05-2016 to 08-06-2016
- ▶ Participated in a FDP on *Advanced Web Technologies*, C-DAC, Hyderabad, 18-05-2016 to 27-05-2016
- ▶ Participated in a Workshop on *Advanced Web Technologies*, C-DAC in association with NIT-W, 18-05-2016 to 27-05-2016
- ▶ Participated in a Workshop on *Cloud Big Data Analytics with Microsoft Azure Machine Learning and Power BI Tools*, IEEE CIS, IEEE Hyderabad section, 16-04-2016
- ▶ Participated in a FDP on *Embedded Systems*, CBIT, Hyderabad, 28-03-2016 to 01-04-2016
- ▶ Participated in a Workshop on *Embedded Systems*, CBIT in association with ESCI, 28-03-2016 to 01-04-2016
- ▶ Participated in a Training on *Cloud Computing and Data Analytics*, University College of Engineering, OU, Hyderabad, 08-02-2016 to 12-02-2016
- ▶ Participated in a Workshop on *Cloud Computing and Data Analytics*, Department of CSE, Univeristy College of Engineering, OU in association with ESCI, 08-02-2016 to 12-02-2016
- ▶ Participated in a Training on *FIST Master Training Program*, JNTUH, Hyderabad, 02-11-2015 to 06-11-2015
- ▶ Participated in a Training on *Management Capacity Enhancement Programme for Administrators*, IIM Lucknow, Noida Campus, 05-06-2015 to 09-10-2015
- ▶ Participated in a Refresher Course on *Open Source Software in Academic Institutions*, UGC-ASC, Hyderabad, 14-02-2011 to 10-03-2011
- ▶ Participated in a Conference on *ACM SIGCOMM 2010*, New Delhi, 30-08-2010 to 03-09-2010
- ▶ Participated in a Conference on *COMSNETS 2010*, Bangalore, India, 05-01-2010 to 09-01-2010
- ▶ Participated in a Conference on *Fifth International Conference on Wireless Communication and Sensor Networks*, IIIT, Allahabad, 15-12-2009 to 19-12-2009
- ▶ Participated in a Workshop on *Video Streaming Technologies*, CDAC, Hyderabad, 10-08-2009
- ▶ Participated in a Conference on *International Conference on Computer and Network Technology(ICCNT 2009)*, Chennai, India, 24-07-2009 to 26-07-2009
- ▶ Participated in a Conference on *Fourth International Conference on Information System security*, JNTU, Hyderabad, INDIA, 16-12-2008 to 20-12-2008
- ▶ Participated in a Tutorial on *Wireless Networks*, Univerity of Hyderabad, India, 18-11-2008
- ▶ Participated in a Conference on *Wireless Communication & Sensor Networks*, IIIT, Allahabad, 26-09-2008 to 29-09-2008
- ▶ Participated in a Workshop on *UbiComp India-2008*, CDAC, Hyderabad, 26-08-2008
- ▶ Participated in a Orientation Course on *A Four-week orientation course*, UGC-ASC, Hyderabad, 25-02-2008 to 22-03-2008
- ▶ Participated in a Workshop on *E-Swecha*, JNTU College of Engineering, Hyderabad, 30-01-2008 to 31-01-2008
- ▶ Participated in a Workshop on *Research Challenges in Wireless and Optical Communication Networks*, Anna University, Chennai, 30-03-2007 to 31-03-2007
- ▶ Participated in a Workshop on *TCP/IP Networks & Protocols*, JNTU College of Engineering, Hyderabad, 06-12-2006 to 08-12-2006
- ▶ Participated in a Training on *Embedded Systems*, Sumargasai Technologies Pvt. Ltd., 16-01-2006 to 21-01-2006
- ▶ Participated in a Refresher Course on *Mobile Computing*, UGC-ASC, Hyderabad, 08-11-2004 to 30-11-2004
- ▶ Participated in a Training on *Remote Sensing and GIS*, IST, JNTU, 15-03-2004 to 27-03-2004

- ▶ **Honors & Professional Activities**

- ▶ **Professional Activities**

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Chaired IEEE Hyderabad Mentorship Committee 2020-2021.

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Publication Chair in IEEE Region 10 HTC 2022

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Chaired a session in IEEE Region 10 Humanitarian Technology Conference (IEEE R10 HTC 2022) during 16-18, September 2022.

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Chaired a session in International Conference on Computational Intelligence & Informatics (ICCI -2020) held at JNTUH, Hyderabad during 14-15, February, 2020.

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Reviewer at 2<sup>nd</sup> International Conference on Machine Learning, Internet of Things and Big Data (ICMIB-2021) conducted by IGIT, Odisha.

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Chaired a session in 2020 IEEE-HYDCON organized during 11-12 September, 2020

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Invited as a Judge for Jignasa-2017 organized by Commissionerate of Collegiate Education

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Secretary, IEEE Hyderabad CIS/GRSS Joint Chapter, 2022-2023

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Vice Chair, Hyderabad Deccan ACM Chapter, 2020

- ▶ **Teaching**

- ▶ Object Oriented Analysis and Design in B.Tech.(III/IV) II-nd Sem (2012-13)

- ▶ **Administrative Positions Held**

- ▶ Additional Controller of Examinations, Jawaharlal Nehru Technological University Hyderabad, 06 Jul 2017 - 22 Dec 2022

- ▶ **Downloads**

- ▶ review

- ▶ CA

**Contact :**

**Dr. Athota Kavitha**

Computer Science & Engineering

Official Email: [athotakavitha@jntuh.ac.in](mailto:athotakavitha@jntuh.ac.in)

Alternate Email: [athotakavitha@yahoo.com](mailto:athotakavitha@yahoo.com)

Phone: 040-32408718