

1. About the Networking Research Group:

The aim of Networking Research group is to explore, design, develop, and study reliable, scalable, self-managing networks and systems. We are working with the goal to engage in fundamental research that improves the state-of-art in networked systems design and implementation. Our research spans mobile and wireless networks; wide area internet systems and protocols; data centre, enterprise and home networks, network monitoring, inference, and diagnosis, and network performance improvements and analysis.

The group aims are:

- To encourage and develop Networking Research expertise among the faculty community and students groups.
- Motivate the faculty and students to engage research in advance topics like , Internet measurements , Software Defined Networking , Topology theory and resilience , Cloud computing , Content distribution , Internet of Things , Digital and social media, Network economics and Green computing .
- To create vibrant research environment to conducting experiments, simulation and synthesis of various protocol software's.
- To investigate new connectivity paradigms emphasizing scenario-based research with rapid prototyping so that researchers can experiment with actual systems.

2. People:

(a) Group Head: **Dr.K.S.M.V.Kumar**

(b) Internal Faculty:

1. Mr.G.BaluNarasimhaRao

2. Mr.A.Sudhakar

3. Mr.K.SundeepSaradhi

4. Mr.L. V.Krishna Rao

5. Mr.Sk.JanyBasha

6. Mr.K.Rangachary

3. Equipments:

(a) Hardware:

<u>HP Commercial Desktop System:</u> Intel core i5 (2400) 2.5 GHZ, 8GB DDR3 RAM, 1TB HDD, 18.5" LED Monitors.	16no.s
Intel[R]Core[TM]2Duo CPU E7500@2.93GHZ, 2GB RAM, 500GB HDD	01no.s

Intel Core i3-4150 CPU@3.50GHZ,4GB RAM,500GB HDD	01no.s
3 KVA Online UPS ,Make: Consul with Battery Pack	01no.s
D Link 24 Gigabit Switch	01no.s

(b) Software's:

Ns2, Ns3 Simulator

4. PUBLICATIONS:

(a) Journal Publications:

FOR 2017-2018 ACADEMIC YEAR

1. Mula Prasanthi,**Dr.Ch. VenkataNarayana**, “An Efficient Data Transmission in Cluster-Based Wireless Sensor Networks by using Advanced LEACH and SET Protocols” IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,pISSN: 2278-8727, Volume 19, Issue 4, Ver. IV. (Jul.-Aug. 2017), PP 61-67
2. Pusukuri Lakshmi Prasanna, **L.Kranthi Kumar**, ”Convergent Encryption Using Deduplication on Hybrid Cloud” IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 19, Issue 4, Ver. V. (Jul.-Aug. 2017), PP 25-29
3. **G.BaluNarasimhaRao**,A.Jaya Lakshmi and P.saiKiran published “Improvement of Energenetic state for power reduction in Mobile Ad-hoc networks Journal of Engineering and applied sciences 13(9) :2603-2608-2018.ISSN-1816-949X.

FOR 2016-2017 ACADEMIC YEAR

1. B.Shyamala published a paper entitled, “Real Time Electronic Control of Multi Fingered Hand Based on Sensors” in ELSEVIER, Precedia Computer Science, Aug’16.
2. G BaluNarasimhaRao published a paper entitled “Mitigating the Malicious Nodes by the Effect of Trust Evaluation with Composite Trust Public Key Management in MANET”. IJRECE, Vol.4, Issue.4, Sept’16.
3. Joshi Padma Narasimhachari, Dr.N.Ravishankar, Dr.M.balaraju,T.Soundarya “Flexible and Secure Key Exchange Mechanism for Network File Systems” IJRIT International Journal of Research in Information Technology, Volume 4, Issue 10, October 2016, Pg 55-65.
4. Mrs.Joshi Padma Narasimhachari, Valli Kumar Masam, Dr. N. Ravi Shankar, Dr. M. B. Raju published a paper titled “The Strong Confidence: The Process of Computational

Dynamic Trust Model for Secure Communication in Multi-Agent Systems”International Journal of Research Volume 03 Issue 14 October 2016.

5. KavetiSaiTeja, Mrs.Joshi Padma Narasimhachari, Dr. N. Ravi Shankar, Dr. M. B. Raju published a paper titled “Cloud Privilege of Access to Data and Anonymity with the Unknown Entirely Based Encryption to Control Characteristics” International Journal of Research Volume 03 Issue 14 October 2016
6. M.NageswaraRao and A.Sudhakar “Prediction policy based technique for multimedia content sharing in social network sites” IJRCSE Vol-6, issue -5, sept-oct 2016.
7. ReshmiKallam and K.sundeepSaradhi “A new test tool for network debugging and faults identification” IJETCSE Vol 23, Issue 5 sept 2016.
8. Bhavani, G.V.Rajya Lakshmi “Intrusion Detection by using fuzzy genetic algorithm” International Journal of Innovative research in Advanced Technology VOI-1,Issue - 4,Oct-2016, page.no-219-227.

FOR 2015-2016 ACADEMIC YEAR

1. **Dr.Ch.VenkataNarayana**, Ch.Sireesha “Handle packet flow and traffic in high speed networks by using Fuzzy logic” IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
2. **B.G.Obula Reddy**, M.Chiranjeevi“Novel key Management for efficient Transmission in Remote Co-Operative groups” IJRIT, ISSN: 2001-5569, July 2015.
3. **D.Vee raiah**, G.V.N.Sindhura "MCA for Detection of DOS Attack” IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
4. **B.G.Obula Reddy**, G.Hymavathi "An Efficient Data Transmission for Cluster-Based Wireless Sensor Network" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015
5. **B.G.Obula Reddy**, K.Niveditha "GEOGET- Mapping Scheme For Moderately Connected Internet Regions" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
6. **M.Sribala**, M.S.L.Sravani "Dynamic Authentication for Efficient Data Storage HMS" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
7. **D.SrinivasaRao**, M.Rajesh "Trustee based social authentication: A Novel Approach of authentication ", IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
8. **G.NageswaraRao**, P.Monica “Secure forwarding of packets from Vampire attacks in wireless adhoc sensor networks”, IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
9. **A.Sree Rama Chandra Murthy**, P.NagaLakshmi "Sanitizing Private Information Inference Attacks On Social Networks" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
10. **B.Siva Rama Krishna**, B.Raju "A Computational Trust Model for Peer to Peer Systems to organize itself" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.

11. **B.Shyamala**, S.Anusha "Ensuring Privacy And Multiparty Access Control For Online Social Networks" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015.
J.NageswaraRao, V.Alekya "Effective Video Sharing In Online Social Network" IJRIT, ISSN: 2001-5569, Volume-3, Issue-7, July 2015
12. **M.SriBala**, Ms.Yasmeen Begum "A Novel Technique to Detect the Misbehaviour nodes in Delay Tolerant Networks" IJRD, ISSN-3785-0855, July 2015.
13. **K.Rangachary**, Dr.S.Naganjaneyulu "**Insider Attack Detection System (IADS) in MANETs**" in IJARCCCE ISSN (Online) 2278-1021, Vol. 4, Issue 6, June 2015.

(b) Conference Articles:

1. **B.Shyamala**, "Real Time Electronic Control of Multi Fingered Hand Based on Sensors" Paper ID: ICC16-205, 2nd International Conference on Intelligent Computing, Communication & Convergence (ICCC-2016) 24th-25th January, 2016, IIMT Research Network, Bhubaneswar, Odisha, ISBN: 978-93-82208-66-14.
2. **K.Rangachary** attended CISCO Networking academy Conference-2016 at Puri, Odisha.

(c) Conference Conducted:

1. International Conference on Computational Intelligence & Data Engineering (ICCIDE)-2017

(d) Workshops Conducted:

1. Two-Day Work Shop on "ETHICAL HACKING & CYBER SECURITY" For A.Y. 2015-16