

Yogesh Reddy Kondareddy

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OBJECTIVE

To obtain a challenging position in wireless/wired network design, engineering and testing.

EDUCATION

Ph.D., Electrical and Computer Engineering, Auburn University, AL Expected August 2010
Dissertation Title: Design of a Protocol Suite for Cognitive Radio Networks.
Overall GPA: 4.0/4.0

M.S., Electrical and Computer Engineering, Auburn University, AL August 2008
Thesis Title: MAC and Routing Protocols for Multi-hop Cognitive Radio Networks.
Overall GPA: 3.91/4.0

B.Tech., Electrical and Electrical Engineering, JNTU, India June 2006
Thesis Title: Automatic Computer Aided Plotting of Circle Diagram of a Three Phase Induction Motor.
Overall GPA: 4.0/4.0

RELATED COURSES

Telecommunication Networks	Design and Analysis of Computer Networks	Wireless Networks
Computer and Network Security	Principles of Network Performance Analysis	Information Theory
Microwave And RF Engineering	Computer Architecture and Design	Cryptography
Stochastic Systems and Signal Analysis	Digital Communications	Graph Theory
Wireless Communication Systems	Statistical Analysis Software (SAS)	Statistics

CERTIFICATIONS

Cisco Certified Entry level Network Technician (CCENT).
Certified Wireless Network Administrator (CWNA).
Certified Base Programmer for SAS.
Successful completion of Information Assurance training at Auburn University.

SKILLS

Simulation Tools : NS-2, OPNET
Programming Languages : C, C++, Objective C, Java, Tcl/Tk, Perl, MATLAB, SAS 9.0, VHDL
Operating System : Windows 95/98/2000/XP, Linux
Other Software : Adobe Photoshop, Adobe Flash CS3, HTML

EXPERIENCE

Intern Researcher, Telcordia Technologies Inc. May 2009 – August 2009
Vehicular Networks

- Developed scalable security architecture for Vehicular Networks
- Designed efficient Certificate Revocation List distribution schemes in V2V and V2I communications

Graduate Research Assistant, Auburn University, AL Aug' 2006 – present

Dynamic Spectrum Access/Cognitive Radio Networks

- Designed a Synchronized MAC and routing protocols for multi-hop cognitive radio networks
- Modeled and measured the performance of TCP in cognitive radio networks using Markov chains
- Introduced Cross-layer games in cognitive radio networks to ensure secure cooperation

Mesh/Integrated Networks

- Developed a Gate Classification Algorithm to alleviate unfairness issue in Mesh Networks
- Proposed prioritized allocation for efficient channel management in WiFi-WiMax integrated networks

Intern, Neosis Ltd., Hyderabad, India Jan' – May 2006

- Built automatic power frequency monitoring and control in a power system
- Designed and implemented an automated plotting of circle diagram of a three phase Induction Motor

TERM PROJECTS

Performance analysis of TCP in wireless networks	Dec' 2006
Development of Light Mobility protocol using socket programming	Sep' 2006
Implementation of DSDV routing protocol in C	Sep' 2007
Study of impact of mobility on path lifetime in mobile ad-hoc networks	Dec' 2007
Development of efficient TCP/UDP port scanner	Sep' 2008
Performance analysis of hashing functions	Oct' 2008
Survey of Denial of Service attacks, implementations and countermeasures	Nov' 2008
Computer Architecture Design	Aug' 2009
SAS Macro development for multivariate analysis of raw data from a protein experiment on rats	May 2010

PUBLICATIONS

Conferences

1. **Yogesh Kondareddy** and Prathima Agrawal, "Enforcing Cooperative Spectrum Sensing in Cognitive Radio Networks", (submitted to) *IEEE Military Communications Conference, MILCOM 2010*, San Diego, CA.
2. Giovanni D Crescenzo, **Yogesh Kondareddy** and Tao Zhang, "Random Graphs in Vehicular Networks and Security Applications", (Submitted to) *ACM VANET 2010*, Chicago, USA.
3. **Yogesh Kondareddy** and Prathima Agrawal, "Analysis of Certificate Revocation List Distribution Protocols for Vehicular Networks", (to appear in) *IEEE Global Telecommunications Conference, GLOBECOM 2010*, Miami, USA.
4. Nirmal Andrews, **Yogesh Kondareddy** and Prathima Agrawal, "Prioritized Resource Sharing in WiMax and WiFi Integrated Networks", *IEEE Wireless Communications and Networking Conference, WCNC 2010*, Sydney, Australia.
5. Nirmal Andrews, **Yogesh Kondareddy** and Prathima Agrawal, "Channel management in collocated WiFi-WiMAX networks", *IEEE Southeastern Symposium on System Theory, SSST 2010*, Tyler, Texas.
6. Kongara H, **Yogesh Kondareddy** and Prathima Agrawal, "Fairness and Gateway Classification Algorithm in Multi-hop Wireless Mesh Networks", *41st IEEE Southeastern Symposium on System Theory, SSST 2009*, Tullahoma, Tennessee.
7. **Yogesh Kondareddy** and Prathima Agrawal, "Effect of Dynamic Spectrum access on TCP Performance", *IEEE Global Telecommunications Conference, GLOBECOM 2009*, Honolulu, Hawaii.
8. **Yogesh Kondareddy** and Prathima Agrawal, "On the Capacity of Secondary Users in a Cognitive Radio Network", *IEEE Sarnoff Symposium 2009*, Princeton, NJ.
9. **Yogesh Kondareddy** and Prathima Agrawal, "A Graph Based Routing Algorithm for Multi-hop Cognitive Radio Networks", *ACM Wireless Internet Conference, WICON 2008*, Lahaina, Hawaii.
10. **Yogesh Kondareddy** and Prathima Agrawal, "Cognitive Radio Network Setup without a Common Control Channel", *IEEE Military Communications Conference, MILCOM 2008*, San Diego, CA.
11. **Yogesh Kondareddy** and Prathima Agrawal, "Selective Broadcasting for Multi-Hop Cognitive Radio Networks", *IEEE Sarnoff Symposium 2008*, Princeton, NJ.
12. **Yogesh Kondareddy** and Prathima Agrawal, "Synchronized MAC Protocol for Multi-Hop Cognitive Radio Networks", *IEEE International Conference on Communications, ICC 2008*, Beijing, China.

Journals

1. **Yogesh Kondareddy** and Prathima Agrawal, "Energy efficient Medium Access Control protocol for Cognitive Radio Networks", (submitted to) *IEEE Transactions on Mobile computing 2010*.
2. **Yogesh Kondareddy** and Prathima Agrawal, "Game theoretic approach to mitigate Denial of Service Attacks in Cognitive Radio Networks", (submitted to) *Mobile Networks and Applications 2010*.

AWARDS AND HONORS

Harry Merriwether Fellowship Award, Auburn University	2010
Best Graduate student, Electrical and Computer Engineering Department, Auburn University	2008
Vodafone Fellowship Award, Auburn University	2007
Auburn University College of Engineering Fellowship	2008
Academics Topper, Electrical Engineering, Mahatma Gandhi Institute of Technology	2002-2006
First Prize in the national project presentation contest	2005
National Silver Medalist in All India Rifle Shooting Championship	2000
Gold Medalist in state level painting competition	2000

REFERENCES

Available on Request