
CONTACT INFORMATION	Design Engineer (Wireless Systems) Redpine Signals 9th Floor, 2B Maximus, Mindspace, HITEC City, Hyderabad, Telangana 500081 India	Work: +91-80-2293-2854 Mobile: +91-95-3514-5886 E-mail: shahid.nit@gmail.com WWW: www.shahidshah.weebly.com
QUALIFICATIONS AND INTERESTS	Wireless communication, Physical Layer Security, Information theory, Machine learning, Data Analytics, Game theory.	
EDUCATION	Indian Institute of Science , Bangalore, India (Aug 2009–Jan -2017) Ph.D., Electrical Communication Engineering, <ul style="list-style-type: none">• Thesis Topic: Secrecy rate enhancement with modified criterion and resource allocation in wiretap channels• Adviser: Professor Vinod Sharma• Area of Study: Physical Layer Security Master of Engineering (M. E.), <ul style="list-style-type: none">• Adviser: Professor Vinod Sharma• Area of Study: Physical Layer Security National Institute of Technology , Srinagar, India B.Tech. (Aug-2004–July-2008), Electronics and Communications Engineering, GPA: 8.84 (10.0 scale) <ul style="list-style-type: none">• Major project: Speech based control of electrical devices• Minor project: 3-in-one filter design	
EXPERIENCE	Redpine Signals Inc. , Hyderabad, India <u>Design Engineer</u> December 2016 to present <ul style="list-style-type: none">• Testing and debug of various algorithms for WLAN (IEEE 11b, 11g, 11n) chipset.• Provide the architect for Cellular IoT (based on LTE Release 13 standard).• Perform simulations for various filter designs to nullify non-linearities in RF Circuits. Indian Institute of Science , Bangalore, India <u>Research Associate</u> January 2016 to August 2016 <ul style="list-style-type: none">• Working on mathematical modelling of energy consumption of households• Developed and implemented clustering algorithms from datasets collected through field measurements.• Model activity patterns and appliance usage based on socio economic profiling and historical consumption. Incorporate building models and field data into the analytics.• Create a consumption model linking the all of the above information to disaggregate consumption into the sources Implement a searching algorithm to identify opportunities for intervention towards regulation. This is being done by using various regression algorithms.• Construct randomized control trials to experiment and learn based on outcomes and optimize the performance of the algorithms	

REVA University, Bangalore, India

Assistant Professor

August 2015 to December 2015

- Taught core subjects for M. Tech (Digital communication) and M. Tech (Signal processing)
- Co-ordinated M. Tech (Digi. Comm.) final year projects

University of Kashmir, Srinagar, J&K, India

Lecturer

November 2008 to June 2009

- Taught core subjects of undergrad course in electronics and communication engineering
- co-ordinated final year projects

BSNL, Srinagar, India

Internship

January 2006 to March 2006

REFEREED
JOURNAL
(SUBMITTED)

- [1] Shahid M Shah, Krishna Chaitanya A, Vinod Sharma. "Resource Allocation in a MAC with and without security via Game Theoretic Learning", EURASIP Journal of Wireless Communication and networking (Undergoing second revision),
- [2] Shahid M Shah, Vinod Sharma, "Enhancing Secrecy Rate Region for Recent Messages for a Slotted Multiple Access Wiretap Channel to Shannon Capacity Region", Physical Communication (Submitted),
- [3] Shahid M Shah, Vinod Sharma, "Enhancing Secrecy Rates in Single User wiretap channel", IET Communication.

CONFERENCE
PUBLICATIONS

- [4] Shahid M Shah, V. Kumar, V. Sharma, "Achievable Secrecy Sum-Rate in a Fading MAC-WT with Power Control and without CSI of Eavesdropper" , In: proceedings of 2012 IEEE International Conference on Signal Processing and Communications (SPCOM 2012)
doi:10.7551/978-0-262-32621-6-ch083
- [5] R. Rajesh, Shahid M Shah, Vinod Sharma, "On Secrecy above the Secrecy Capacity". In: Proceedings of IEEE International Conference on Communication Systems (ICCS) 2012, Singapore., May 19, 2012.
- [6] Shahid M. Shah, Parmeswaram S, Vinod Sharma, "Previous Messages provide the key to achieve Shannon Capacity in a Wiretap Channel" In: proceedings of IEEE International Conference on Communications (ICC) - Workshop InfSec, Budapest, Hungary, June 2013., December 16–19, 2013.
- [7] Shahid M. Shah, Vinod Sharma, "Achieving Shannon Capacity region as Secrecy Rate Region in a Multiple Access Wiretap Channel" In: Proceedings of IEEE Wireless Communication and Networking Conference (WCNC) 2015, New Orleans, LA, USA., April 8–11, 2015.
doi:10.1145/2461328.2461349
- [8] Shahid M. Shah, Krishna Chaitanya A, Vinod Sharma, "Resource Allocation in Fading Multiple Access Channels via a Learning Algorithm", In: presented at IEEE Information theory and applications (ITA) workshop, San Diego, USA, Feb, 2016.

- REFeree SERVICE
- IEEE SPCOM, ITW
 - International Journal Digital system
 - IEEE Transactions on Information forensics and security
 - IEEE Transactions on Vehicular Technology
 - IEEE Wireless communication letters
- CONFERENCE SERVICE
- Member of Technical Program Committee: 2013 IEEE Symposium on Wireless Technology & Applications (ISWTA), Malaysia, September 21–24, 2013.
- Member of Technical Program Committee: 2016 IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), Jaipur, India, September 21–24, 2016.
- PROFESSIONAL MEMBERSHIPS
- Institute for Electrical and Electronics Engineers (IEEE), Member, 2002–present
- IEEE Communications Society (2012–present)
 - IEEE Information Theory Society (2013–present)
- AWARDS
- COMSNET Travel fellowship
- To present paper in IEEE WCNC conference in New Orleans, USA
- COURSE WORK
- Credit (at IISc Bangalore):
- Digital communication, Information theory, Random Process, Communication networking, Wireless communication, Wireless networking, Detection and Estimation theory, Topics in Multiuser communication
- Audit (at IISc Bangalore):
- Probability theory, Linear and Non-linear optimization, Functional analysis, Real analysis, Measure theory
- Credit (at NIT Srinagar):
- Communication system, Probability and statistics, Linear algebra, Data Communication, Microwave engineering, Information theory and random process, Transmission lines and Antenna theory, Computer security
- HARDWARE AND SOFTWARE SKILLS
- Computer Programming:
- C, C++, ASP, Pascal, Python
- Numerical Analysis:
- MATLAB, R, Maple, Mathematica
- Operating Systems:
- Microsoft Windows family, Linux
- Database tools:
- dBMongo
- REFERENCES AVAILABLE TO CONTACT
- Prof. Vinod Sharma (Professor, IISc, Bangalore)
email: vinod@ece.ernet.iisc.in
 - Dr. Majed Haddad (Assistant professor, Avignon University, France)
email: haddadmajed@yahoo.fr
 - Dr. Zafar Ali Khan (Professor, IIT Hyderabad)
email: zafar@iith.ac.in
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MORE
INFORMATION

More information and auxiliary documents can be found at
<http://www.shahidshah.weebly.com/>.