PROFILE

- ✓ Working as Assistant Professor in Indian Institute of Information Technology (IIIT) Chittoor, Sricity
- ✓ **Invited Speaker** at DAAD Alumni Seminar, University of Applied Sciences, Cologne, Germany; Nov'2015
- ✓ In-depth experience in _Telecommunication Systems_ & _Energy-aware Devices/ Networks_
- ✓ Expertise in **_primary market research_** and **_SWOT analysis_** for _wireless smart-phone sector_
- ✓ Initiated and managed 3-industrial projects – **_Ericsson, Everseen_** and **_Eductn Initiative Pvt.Ltd_**
- ✓ Experience in _building a project team_, _scheduling assignments and deadlines_, and _creating project documents_ as necessary. Expertise in _managing multiple projects_ with varying priorities
- ✓ **Adept at understanding** and **adopting _emerging trends and techniques_**, **_addressing industry requirements_** to achieve organizational objectives
- ✓ Experience with **two Tech Start-ups** (www.globalmobileuniversity.com & www.cleangreentraffic.com)
- ✓ Training management - Supervised 5 engineers, 11 researchers and 18 under-graduate students
- ✓ Founding Chair of **Dublin ACM SIGMOBILE Chapter**
- ✓ _Awarded German DAAD Research Fellowship_ ('03-'04) and _Irish Research Fellowship_ ('08-'10)

EDUCATION

Mar.'11 – May'11	**Dublin City University (DCU), Ireland** Certification Course on Tech-Venture Startup – INVENT, DCU.
Aug.' 04 - Aug.' 07	**Jacobs University Bremen, Germany** **(Formerly, International University Bremen)** **PhD** in Electrical Engineering, School of Engineering and Science. **Supervisors:** Dr. Sinan Sinanovic and Prof. Harald Haas. **PhD Title:** "_Performance Analysis of Multihop Ad hoc & Hybrid Cellular Networks_". **University Award:** Best graduate student researcher, 2007.
July' 02 – June' 04	**Indian Institute of Technology (IIT), Kanpur – India** **Technical University (TU)-Dresden, Germany** Master's in Technology in "Microwave and Digital Communication Systems". **Department:** Vodafone Chair for Mobile Communications, TU-Dresden, Germany. **Supervisors**: Dr. Clemens Michalke and Prof. Dr. Ing. Gerhard Fettweis. **Master's Thesis:** "_Receiver Algorithms for MIMO-OFDM Systems_".
July' 97 – Sept.' 01	**KJ Somaiya college of Engineering, Mumbai University – India** Bachelor of Engineering in Electronics and Tele-communication (EXTC). **Final Score:** 1st class with Distinction (70%), 23rd rank out of 1100 students.

RESEARCH AND TRAVEL GRANTS Total grant of 1,35,000€ (after currency conversion):

1. **Principal Investigator@** - Indian Institute of Information Technology (IIIT) Chittoor; Sept'15-till date
   Project Title   **-** _Multihop Vehicular Communications_
   Funding Agency   **-** IIIT Chittoor Start-up Research Grant
   Funding Amount   **-** 5 Lakhs INR (4500€).

2. **Principal Investigator@** - Dublin City University (DCU), Ireland; Nov'12 – May'13
   Project Title   - *Energy Consumption Optimization in Radio Access Network*
   Funding Agency   - Irish Research Council (IRC) Foundation Grant
   Funding Amount   - 4,000€.

3. **Principal Investigator@** - Dublin City University (DCU), Ireland; 2011-2012.
   Project Title   - *Energy-optimal Adaptive Scheme for High-end Wireless Devices (EASE)*
   Funding Agency   - Enterprise Ireland (EI), Research and Commercialization Grant.
   Funding Amount   - 95,512€.

4. **Co-Investigator@**   - Dublin City University (DCU), Ireland; 2011-2012.
   Funding Agency   - Jointly funded by DCU & Department of Science and Technology (DST) under Indo-Ireland Joint Research and Travel Grant program.
   Funding Amount   - 15,000€.

5. **Principal Investigator@** - Dublin City University (DCU), Ireland; Mar.'11 – Jan.'12.
   Funding Agency   - Enterprise Ireland (EI) Research Travel Grant for EU FP7 Programs.
   Funding Amount   - 2,950€.

6. **Res. /Travel Grant @**   - Dublin City University (DCU), Ireland; 2008-2010.
   Funding Agency   - Irish Research Council for Science Engineering & Technology (IRCSET).
   Funding Amount   - 10,000€.

7. **Principal Investigator@ -** DA Institute of Information & Communication Technology, India; 2008.
   Funding Source   - Educational Initiative Private Limited, India (Industry funding).
   Funding Amount   - 50,000 INR (1000€ at the time of currency exchange).

8. **Consultant@**   - Kanazia Digital Systems Pvt. Limited, Mumbai (Jan.'08 – Nov.'08).
   Funding Amount   2,50,000 INR (2800€; at the time of currency exchange).

PROFESSIONAL EXPERIENCE

May'15 – till Date	**Indian Institute of Information Technology (IIIT), Chittoor, Sricity**
	Designation: Sr. Grade of Assistant Professor and Research head of '*Next Generation Wireless group*',
	Teaching: Digital and Wireless Communications, Information Theory and Coding
	Research: Supervision of 1 PhD candidate; Collaboration with CeWIT (IIT Madras); IRISA Labs (University of Rennes1), France and CDAC Hyderabad, India
	Administrative Responsibilities: Faculty coordinator for:
	i. Networks, Servers and Information Systems
	ii. Industry interaction and visits
	iii. BTech Project evaluation
May'13 – Till date	**CTO Office - New Business Unit, Tech Mahindra HQ, Pune**
	Designation: Technical Architect/Manager
	Objective: Develop long-term network service strategies and propose algorithms/ solutions in new technological areas
	Responsibilities/Accomplishment:
	1. Investigate new network-based technologies for small cell integration and next generation heterogeneous networks
	2. Design and develop algorithm in a key area - LTE/cellular to Wi-Fi offload
	3. Customer co-innovation on different network services - both short-term and long-term vision

Jan'13 – May'13	**Irish Research Council (IRC) and Indian Institute of Technology (IIT), Indore** **Designation:** Assistant Professor (IIT Indore) & Principal Investigator (Irish Research) **I. RESEARCH:** Investigate different components of energy consumption and optimization techniques in wireless radio access network **II. TEACHING:** 2 under-graduate courses: Digital Communications (3rd year) Computer Networks (4th year)

Dec'08 – Jan'13 (PI till May'13)	**Research institute for Networks and Communications Engineering (RINCE), Performance Engg. Laboratory (PEL), Dublin City University (DCU), Ireland.**
	
	Designation: Principal Investigator and Project Manager
	
	I. RESEARCH
	
	   a. **Core Expertise – *Wireless Networks***
	   Applied research on broadband communications and energy-optimal networks, focusing on developing industry-oriented solutions.
	
	   b. **Principal Investigator – "*Energy Optimal Adaptive Scheme*"**
	   Enterprise Ireland project for developing seamless algorithms and mechanisms for dynamically adapting energy consumption in wireless devices and networks.
	   Patent: 1 patent-filing in discussion with DCU's technology transfer office (TTO).
	   Team Size: 2 engineers, 1 PhD student and 1 commercialization expert.
	
	   c. **Project Manager** - "*Content-aware Network CCTV*"
	   An Ericsson - Enterprise Ireland project for developing a recommender system in order to analyze huge volumes of mobile subscribers data
	   Task: Analyze the user-behavior and user-preference, and subsequently developed a central architecture for recommending new mechanisms, thereby reducing churn for the mobile service provider.
	   Team Size: 2 researchers and 1 engineer
	
	   d. **Project Manager** - "*Content-aware Network CCTV*"
	   An Enterprise Ireland project for developing a scalable content-aware CCTV monitoring solution for an Irish SME – Everseen Limited. The technical solution will feature intelligent data mining through in analysis coupled with adaptive multimedia streaming techniques, for CCTV in retail sector.
	   Team Size: 2 Researchers and 1 software engineer.
	
	   e. **Co-Principal Investigator – "*Cross layer Design for Mobile Multimedia*"**
	   DCU – India (Indian Institute of Technology Delhi) joint research project.
	   Irish PI: Dr. Gabriel-Miro Muntean
	   Indian PIs: Prof. Swades De and Prof. Hari Mohan Gupta, IIT Delhi.
	
	II. TEACHING and MENTORING
	
	   a. **Supervision:**
	   Current: 2 PhD students (finishing in Sept'12 and Nov'12 respectively).
	   Past: 3 under-graduate students, 3 Master's students and 2 internship students.
	
	   b. **Lecturing:** Final year under-graduate/ Master's level course on '*Performance of mobile and wireless communications*'. It is a blended learning course and comprises of classroom coaching, online lectures and discussions.

	III. MANAGERIAL ACTIVITIES a. **DCU Organizer –** Science Foundation Ireland funded ODCSSS program (Online Dublin Computer Science Summer School), May-Aug.'09. b. **EE@DCU Member** – European TEMPUS Project, for establishing and enhancing 'Master's in Telecommunication' program in Jordanian universities. c. **DCU organizer –** European FP7 project proposal 'NEWTON'**.** A European wide integrated project with 40 partners, including academic institutions, research centers and industries. Leading the team in DCU and organizing meetings and discussions through Enterprise Ireland travel grant.
Jan'08 – Feb'11 **(on leave w/o pay from Jan'09 – Feb'11)**	**Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, India** <u>Designation</u>**: Assistant Professor and Head –** *Next Generation Wireless Systems* **I. RESEARCH** a. **Project Consultant –** *Educational Initiative Pvt. Ltd., Ahmedabad* Developing low-cost classroom response system to be used in Indian secondary schools and colleges. b. **R&D Consultant -** *Kanazia Digital Systems Pvt. Ltd., Mumbai* Deployment of trunked radio systems for professional mobile communication networks across different national organizations in India. **II. TEACHING and MENTORING** a. **Supervision:** ➢9 under-graduate internships (3 months each) ➢7 bachelor's thesis (6 months each) b. **Lecturing:** ➢ Mobile Communications (3rd year under-graduate course) ➢ Advanced Mobile Communications (final-year undergraduate & Master's level) ➢ ICT skills for Engineers (1st semester course for new students) **III. MANAGERIAL ACTIVITIES** a. **Research Mentor** – Incoming PhD students (July'08 – Dec'08) b. **Research Coordinator** – Under-graduate program (May'08 – Dec'08) c. **Panel Member** – Postgraduate admission interview panel (May'08 - July'08)
Sept'07 – Dec'07	**Jacobs University Bremen, Germany** <u>Designation:</u> Post-Doctoral Researcher **Role:** Developed an analytical model for emulating the performance of cluster based two-hop architecture for WiMAX based cellular networks
Oct'01 – June'02	**Microverse Automation Private Limited, Pune, India** <u>Designation:</u> R & D Engineer (Embedded software design) **Role:** Developed an 80C552 based smart indicator and controller for thermal plants

COURSES TAUGHT

	Course Name	Acad Level	Time Frame	Institute
1	Information Theory & Coding	3rd year UG	Aug'15 – Dec'15	IIIT Chittoor Sricity,India
2	Computer Networks	3rd year UG	Jan'13 to May'13	IIT Indore, India
3	Digital Communications	4th year UG	Jan'13 to May'13	IIT Indore, India
4	Performance of Mobile and Wireless Communications	Final year UG	Feb'12 to May'12	Dublin City University (DCU), Ireland
5	Vehicular Communications	1sr year Master's	May'10 (Invited course)	ISEP, Paris, France
6	Adv. Wireless Communications	4th year UG	Aug'08 to Nov'08	DAIICT, India
7	Mobile Communications	3rd year UG	Jan'08 to April'08	DAIICT, India
8	Introduction to ICT	1st year UG	May'08 to July'08	DAIICT, India

VISITING RESEARCHER

1. Indian Institute of Technology (IIT) Delhi, India (April 2012 and Nov. 2011)
   Host: Prof. Swades De and Prof. Hari Mohan Gupta – under the Indo-Ireland joint research initiative.

2. IRISA-INRIA Research Labs, University of Rennes, France (July 2011)
   Host: Prof. Yassine Hadjadj Aoul

3. Steinbeis Research Institute, Loerrach, Germany (May 2011)
   Host: Prof. Axel Sikora

4. Institut Superieur d'Electronique de Paris (ISEP), Paris, France (May 2010)
   Host: Prof. Balwant Godara

5. CEU San Pablo University, Madrid, Spain (May 2010)
   Host: Prof. Gianluca Cornetta

6. University of Washington, Seattle, USA (October 2009)
   Host: Prof. Sumit Roy

7. National University of Dublin (University College Dublin), Ireland (December 2008)
   Host: Prof. John Murphy

INVITED TALKS

1. Tech Mahindra CTO Webinar Series – Web Presentation to all@TechM, India – 5th March 2014
   Title: "*Data Offload and Small-Cells*"

2. Technology Road Show, Convention Centre, Dublin, Ireland – 11th October 2011
   Title: "*Energy Optimization in Smart-phones*".

3. National University of Ireland (NUI), Maynooth, Ireland - 18th March 2010
   Title: "*Adaptive Multimedia Streaming in Wireless Networks*".

4. University College Dublin (UCD), Dublin, Ireland – 10th December 2008.
   Title: "*Multimedia Transmission in WiMAX Based Networks*"

5. CDAC-T, IEEE Kerala Section, India – 9th May 2008
   Title: "*Cognitive Radio: Next Generation Wireless Networks*"

6. Technical University Ilmenau, Germany – 4th September 2007
   Title: "*Multihop Hybrid Ad-Hoc Cellular Networks for 4th Generation Wireless Systems*"

AWARDS AND RECOGNITIONS

1. **Executive Editor** - European Transactions on Telecommunications (ETT).
   (Apr.'11 – till date)

2. **Executive Editor** - International Journal on Communications, Networks and Systems (IJCNS)
   (Mar.'11 – till date)

3. **Founding Chair** - ACM SIGMOBILE Dublin Chapter and *Ambassador of ACM* (Oct'12 & Feb'14)
   (Oct'12 – June'13)

4. **IRCSET Fellow** - Fellowship by *Irish Research Council for Science Engineering and Technology*.
   (Dec.'08 – Dec.'10)

5. **STAR Researcher** - Performance Engineering Laboratory, The RINCE Institute, Dublin, Ireland
   (Dec'09)

6. **Best Paper** - World Congress on Engineering and Computer Science (WCECS),
   (20-22 ct.'09) University of California, Berkeley, USA

7. **Best Researcher** - Graduate Student award for the Academic Year 2006-07",
   (September 2007) Jacobs University, Bremen, Germany

8. **DAAD Fellow** - Indo-German fellowship by Deutscher Akademischer Austauschdienst.
   (Sept.'03–May'04) Master's Thesis in Vodafone Chair, TU - Dresden, Germany

9. **All India Ranker** - All India Rank (AIR) of 73 among 19,648 candidates.
   (Feb.'02) A percentile of 99.61 in Graduate Aptitude Test for Engineers (GATE), India

PUBLICATIONS

A. Journals

1. **Authors:** H. Venkataraman, V. Tomar and D. Gandhi
   Title: *Multi-hop Multi-band Cognitive Architecture for Next Generation LTE-Advanced Multi-hop Cellular Networks*
   Published: ACM/Springer Wireless Networks, Vol. 75, No. 1, pp. 131-153, January 2014

2. **Authors:** R. Delcelier, H. Venkataraman and G.M. Muntean
   Title: *A Moving Cluster Architecture and an Intelligent Resource Reuse Protocol for Vehicular Networks*
   Published: Springer Wireless Personal Communications, Vo. 19, ppg. 1881-1900, August 2013

3. **Authors:** H. Venkataraman, A. Chowdhury, A. Sikora and G. M. Muntean
   Title: *COARSE – Cluster-Oriented Adaptive Resource Scheme*
   Published: IET Communications, May 2012

4. **Authors:** Z. Yuan, H. Venkataraman and G.M. Muntean,
   Title: *MBE: Model-based Available Bandwidth Estimation for IEEE 802.11 Data Communications*
   Published: IEEE Transactions on Vehicular Technology, Vol. 61, No. 5, pp. 2158-2171, June 2012

5. **Authors:** H. Venkataraman, P. Kalyampudi and G.M. Muntean
   Title: *CASHeW – Cluster-based Adaptive Scheme for Multimedia Delivery in Heterogeneous Wireless Networks*
   Published: Springer Wireless Personal Communications, Vol. 62, No. 3, pp. 517-536, January 2012

6. **Authors:** H. Venkataraman and G.M. Muntean
   Title: *Dynamic Time Slot Partitioning for Two-Hop Cellular Networks*" IEEE Transactions on Mobile Computing, Vol. 64, No. 4, April 2011

7. **Authors:** H. Venkataraman, G.M. Muntean and H. Haas
   Title: *Spatial Reuse Efficiency Calculation for Multihop Networks*
   Published: AEU Journal, Science Direct, Elsevier, Vol. 64, No. 12, December 2010

8. **Authors:** H. Venkataraman, P. Srivastava and S. Nainwal
   Title: O*ptimum Number of Gateways for Cluster-based Two-Hop Cellular Networks*
   Published: AEU Journal, Science Direct, Elsevier, Vol. 64, No. 4, pp. 310-321, May 2010

9. **Authors:** H. Venkataraman, A. Maheshwari, S. Agrawal and G.M. Muntean
   Title: *Prioritized Adaptive Transmission in Two-Hop Heterogeneous Networks*
   Published: Engineering Letters, Vol. 18, No. 2, May 2010

10. **Authors:** V.V. Kapoor, M. Singh, A. Krishnamurthy and H. Venkataraman
    Title: *Interactive Wireless Solution for Next Generation Education System*
    Published: Journal of Symbiosis Center for Information Technology (SCIT), Vol. X, August 2009

11. **Authors:** H. Venkataraman, P.K. Jaini and S. Revanth
    Title: *Optimum Position of Relays for Cluster-based two-Hop Cellular Networks*
    Published: International Journal on Communications Networks and Systems (IJCNS), Scientific Research Publications, pp. 283-292, Vol. 2, No. 5, July 2009

12. **Authors:** H. Venkataraman, S. Sinanovic and H. Haas
    Title: *Cluster-based Design for Two-Hop Cellular Networks*
    Published: International Journal on Communications Networks and Systems (IJCNS), Scientific Research Publications, pp. 370-385, Vol. 1, No. 4, November 2008

13. **Author:** H. Venkataraman
    Title: *Evolution of Transistors: A Review*
    Published: Science and technology Magazine, Ammunition Factory, Ministry of Defence, India, 1999.

B. PAPERS PUBLISHED in CONFERENCE PROCEEDINGS

1. **Authors:** D. Irwin, H. Venkataraman and G.M. Muntean
   Title: *An Energy-Efficient Architecture for Communication between Rovers in Extra-Terrestrial Surface*
   Published: ACM MOBICOM, 26-29 August 2012, Istanbul, Turkey

2. **Authors:** Z. Yuan, H. Venkataraman and G.M. Muntean
   Title: *A Novel bandwidth Estimation Algorithm for 802.11TCP Data Transmissions*
   Published: IEEE Wireless Communications and Networking Conference (WCNC), Paris, France, Apr'12

3. **Authors:** M. Kennedy, H. Venkataraman and G.M. Muntean
   Title: *Dynamic Stream Control for Energy efficient video Streaming*
   Published: Broadband Multimedia Systems and Broadcasting (BMSB), Nuernberg, Germany, June'11

4. **Authors:** M. Kennedy, H. Venkataraman and G.M. Muntean
   Title: *Adaptive Real-Time Energy Consumption variation in Wireless Handheld Device*
   Published: Smarter and Greener Innovation for a Sustainable Future, Globe Forum, Conference Centre Dublin (CCD), Ireland, November 2010

5. **Authors:** D. Theurer, M. Kennedy, H. Venkataraman and G.M. Muntean
   Title: A*nalysis of Individual Energy Consuming Components in a Wireless Handheld Device*
   Published: China Ireland International Conference on Information Technology (CIICT), Wuhan, Oct'10

6. **Authors:** M. Kennedy, H. Venkataraman and G.M. Muntean
   Title: *Battery and Stream Aware Adaptive Multimedia Delivery for Mobile Devices*
   Published: IEEE Local Computer Networks (LCN), Denver, USA, 11-14 October 2010

7. **Authors:** H. Venkataraman, A. D'Ussel, T. Corre, C.H. Muntean and G.M. Muntean
   Title: *Performance Analysis of Multimedia Streaming in 802.11p based Vehicular Networks*
   Published: ACM International Wireless Communications and Mobile Computing (IWCMC), Caen, France, 28 June – 2 July, 2010

8. **Authors:** Z. Yuan, H. Venkataraman and G. M. Muntean
   Title: *iPAS – An intelligent Prioritized Adaptive Scheme for High Video Quality in WLAN*
   Published: Broadband Multimedia Systems and Broadcasting (BMSB), Shanghai, China, March 2010

9. **Authors:** Z. Yuan, H. Venkataraman and G.M. Muntean
   Title: *iBE: An Intelligent Bandwidth Estimation Algorithm for Multimedia Transmission in Wireless Networks*
   Published: 12th International Conference on Management of Multimedia Mobile networks and Services (MMNS'09), Venice, Italy, 23-27 October 2009

10. **Authors:** S. Agrawal, A. Maheshwari, H. Venkataraman and G.M. Muntean
    Title: *QPAMS – Quality Oriented Prioritized Adaptive Multimedia Scheme for WiMAX-based Networks*
    Published: World Congress on Engineering and Computer Science (WCECS), University of Berkeley, San Francisco, USA, 20-22 October 2009. **Best Paper Award**

11. **Authors:** H. Venkataraman, A. Krishnamurthy, P. Kalyampudi, J. McManis and G.M. Muntean
    Title: *Clustered Architecture for Adaptive Multimedia Streaming in WiMAX-based Cellular Networks*
    Published: World Congress on Engineering and Computer Science (WCECS), University of Berkeley, San Francisco, USA, 20-22 Oct'09

12. **Authors:** K. Flynn, H. Venkataraman and G.M. Muntean
    Title: *LHAMA - A Novel Protocol for Inter-Vehicular video Transmission*
    Published: - 9th IT & T Conference, Dublin, Ireland, 22-23 October 2009

13. **Authors:** Z.Yuan, H. Venkataraman and G.M. Muntean
    Title: *Necessity of Intelligent Bandwidth Estimation for Wireless Home Networks*
    Published: China Ireland International Conference on Information Technology (CIICT), Maynooth, Ireland, 19-20 August 2009

14. **Authors:** H. Venkataraman and G.M. Muntean
    Title: *Analysis of Random Data Hopping in Distributed Multihop Wireless Networks*
    Published: IEEE TENCON (Region Ten Conference), Hyderabad, India, 18-21 Nov. 2008

15. **Authors:** A. Tyagi, D. Popov and H. Venkataraman
    Title: *Game Theoretic Algorithms for Power Control and Link Adaptation in 3G UMTS Cellular Systems*
    Published: IEEE TENCON (IEEE Region Ten Conference), Hyderabad, India, 18-21 November 2008

16. **Authors:** H. Venkataraman, S. Sinanovic and H. Haas
    Title: *Spatial Reuse and Random Data Hopping in Multihop Ad Hoc Networks*
    Published: 10th International Symposium on Wireless Personal Multimedia Communications (WPMC), Jaipur, India, 4-6 December 2007

17. **Authors:** H. Venkataraman, S. Sinanovic and H. Haas
    Title: *Variation of Spatial Protection Margin in Multihop Wireless Networks*
    Published: 18th IEEE Personal Indoor Mobile Radio Communications (PIMRC) Conference, Athens, Greece, 3-6 September 2007

18. **Authors:** H. Venkataraman, A. Mudesir, S. Sinanovic and H. Haas
    Title: *Time Slot Partitioning and Random Data Hopping for TDD-based Multihop Wireless Networks*
    Published: 65th IEEE Vehicular Technology Conference (VTC), Dublin, Ireland, 22-24 April 2007

19. **Authors:** E. Foutekova, P. Agyapong, H. Venkataraman and H. Haas
    Title: *Scheduling in Cellular CDMA-TDD Networks*
    Published: Poster presentation, 64th IEEE Vehicular Technology Conference (VTC), Montreal, Canada, 26-29 September 2006

20. **Authors:** S. Chaudhary, H. Venkataraman and H. Haas
    Title: *Uplink Capacity Comparison of Non-Perfect Frequency Synchronized Cellular OFDM Systems*
    Published: ACM International Wireless Communications and Mobile Computing (IWCMC), Vancouver, Canada, 3-6 July 2006

21. **Authors:** H. Venkataraman, H. Haas, C. K. Ahn, S. Yun, and S. McLaughlin
    Title: *Throughput Capacity for Two-Hop Wireless Networks*
    Published: 6th Scandinavian Ad-Hoc Workshop, Stockholm, Sweden, 3-4 May 2006

22. **Authors:** H. Venkataraman, H. Haas, S. Yun, Y. Lee and S. McLaughlin
    Title: *Performance Analysis of Hybrid Wireless Networks*
    Published: 16th IEEE Personal Indoor Mobile Radio Communications (PIMRC) Conference (PIMRC), Berlin, Germany, 11-14 September 2005

23. **Authors:** C. Michalke, H. Venkataraman, W. Rave, V. Sinha and G. Fettweis
    Title: *Application of SQRD Algorithms for Efficient MIMO-OFDM Systems*
    Published: 11th European Wireless Conference, Cyprus, April 2005

24. **Authors:** H. Venkataraman, C. Michalke, W. Rave, V. Sinha and G. Fettweis
    Title: *An Improved Detection Technique for Receiver Oriented MIMO-OFDM Systems*
    Published: 9th Intl. OFDM Workshop, Dresden, Germany, 15-16 Sept'04

C. BOOK CHAPTERS

1. **Authors:** H. Venkataraman, B. Ciubotaru and G.M. Muntean
   Title: *Adaptive Resource Allocation for Multimedia Transmission in IEEE 82.16 based WiMAX Networks*
   Published: IGI Global Publications, USA, January, 2012

2. **Authors:** H. Venkataraman, A. Purohit, R. Pareek and G.M. Muntean
   Title: *Intelligent Resource Allocation Algorithms for Cognitive Radio based Distributed Wireless Networks*
   Published: Springer-Verlag, June 2012

3. **Authors:** M. Kennedy, H. Venkataraman and G.M. Muntean
   Title: *Energy Efficient Decoding and Display Mechanism for Increasing Battery Duration in High-end Mobile Devices*
   Published: Green Mobile, Springer-Verlag, Dec'2011

4. **Authors:** H. Venkataraman and G.M. Muntean
   Title: *ClusterDAM - Cluster-based Design for Delivery of Adaptive Multimedia Content*
   Published: Springer-Verlag, Lecture Notes in Electrical Engineering (LNEE), Vol. 68, 2011

D. BOOKS

1. **Editors:** H. Venkataraman and R. Trestian
   Title: *C-RAN: Centralized Radio Access Networks for 5G Wireless Systems*
   Published: CRC Press, Taylor and Francis Group, USA, to be published, September 2015

2. **Editors:** H. Venkataraman and G.M. Muntean
   Title: *Energy Scavenging and Optimization Techniques for Mobile Networks*
   Published: CRC Press, Taylor and Francis Group, USA, March 2012

3. **Editors:** H. Venkataraman and G.M. Muntean
   Title: *Cognitive Radio for Cellular and Wireless Networks*
   Published: Springer-Verlag, Netherlands, June 2012

E. PATENTS

1. **Authors:** H. Venkataraman, P. Bauskar and A. Joshi
   Area: *Network-Centric Decision Engine for Real-Time Traffic Offload from Cellular to Wi-Fi Networks*
   Status: Filed on 28th March 2014, **Filing No: 1113/MUM/2014**

2. **Authors:** H. Venkataraman, G. Ioana, G. Hogan and G.M. Muntean
   Title: *Method and Apparatus for Energy Consumption Management in Mobile Devices*

Status: Filed on 2nd October 2013, **Filing No: GB 1317476.7**

REVIEWER OF JOURNALS

1. John Wiley Publications

2. ACM/SPRINGER Multimedia Systems Journal

3. ACM /SPRINGER Wireless Networks

4. IEEE Transactions on Mobile Computing

5. SPRINGER Wireless Personal Communications

6. Magazine of Symbiosis Center for Information Technology (SCIT)

OTHER ACTIVITIES

1. Founding member of SRV Education trust; involved in helping orphaned children in Chamraj School, Ooty and Sivanada Saraswati Sevashram, Chennai.

2. Volunteer in organizing coffee mornings for elderly people in St. Parish Church, Beaumont, Dublin.

PERSONAL INFORMATION

1. Date of Birth – 30th April 1979
2. Gender – Male
3. Marital Status – Married
4. Languages Known – English, Hindi, Tamil, Marathi, German (preliminary level)