PROFILE IN RESEARCH AND TEACHING

SURAYA MUBEEN

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Mobile: **8179776518**

Pursuing PH.D at JNTU Kakinada from 2010 on smart antennas and its Beam Forming and Applications

Carrer Orientatation: To do my research activities in the field of Antennas and carry out new innovations in field of smart antennas and enhance new methodologies.

Experience: 4Years 7months
- Worked as Asstiant Professor in NRI institute of technology from 2008-2009
- Worked as Asstiant professor in Ramachandra College of engineering since 2009 to 2011
- Worked as Asst professor in usharama college of engineering since 2011 TO2012
- Working as Assistant professor in KL UNIVERSITY SINCE APRIL 2012

EDUCATIONAL QUALIFICATIONS:

QUALIFICATION	UNIVERSITY	SCHOOL/COLLEGE	AGGREGATE
PH.D (MICROWAVE ANTENNAS) 2010-TILL DATE	JNTU KAKINADA	PURSING	
M:Tech (ECE) (COMM&RADARSYSTEMS) (2006 -2008)	ACHARYA NAGARJUNA UNIVERSITY (A.N.U)	KONERULAKSHMAIAH COLLEGEOF ENGINEERING. VADDESWARAM,GUNTUR	77.45
BTECH (ECE) (2002-2006)	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY (JN.T.U)	SRIPRAKASH COLLEGE OF ENGINEERING,TUNI	63
INTERMEDIATE (2000-2002)	BOARD OF INTERMEDIATE EDUCATION (B.I.E)	VIKAS JUNIOR COLLEGE RAJAHMUNDRY	78.5
SECONDARYSCHOOL (2000)	BOARD OF SECONDARY EDUCATION	VISWASANTHIPUBLIC SCHOOL,RAJAHMUNDRY	71

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SOFTWARE PROFICIENCY;

- ➢ LANGUAGES: C, C++
- ➢ OPERATING SYSTEMS: WINDOWS98, MSDOS.
- ➢ ORACLE,JAVA

SUBJECTS TAUGHT:

- Electromagnetic field theory(1)
- Communication theory.(3)
- Antennas and wave propagation(1)
- Pulse and digital circuits(4)
- Electronic devices and circuits(3)
- Radar Systems(1)
- Basic Electronics Devices and Circuits(2)
- Linear Integrated Circuits(1)
- Digital communications(1)
- Signals and Systems(1)
- Analog communications(3)
- Digital signal processing(2)
- Data Communications(1)
- Wireless Communications(1)
- Telecommunications And Switching Systems(1)

LABS HANDLED

- ➢ Microwave Engineering Lab
- ➢ Electronics devices and circuits Lab
- ➢ Pulse &Digital Circuits Lab & Integrated Circuits Lab
- ➢ IC &ECAD Lab
- ➢ Electronics Circuits Analysis Lab
- ➢ Analog Communication
- ➢ Digital Communication

WORKSHOPS ATTENDED

[1]Two day National workshop on "MATLAB Applications" at GITAM University Hyderabad during 21-22 September 2012

[2]One week short term course on "Current Trends in Microwave Design And Applications "at IIT Khargapur during 11-17 June 2012

[3]One day Workshop "LTE Multi Antennas Techniques Using MATLAB" at V.I.T. UNIVERSITY on 6th April 2012

[4]Three days National workshop on "Modern antennas Simulation and Applications" at NIT Warangal during 17-21 February 2012

[5]One Week short term course on "Digital signal processing at JNTU Kakinada" during 23 January 2012-28 January 2012

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[6]Two day National Workshop on "Smart Antennas Technologies For Future Wireless Systems" sponsored by TIFAC Core at VR .Siddhartha College Of Engineering held during 6-7 august 2011

[7]One Day Workshop on "RF System Design and Testing" On 23 December 2011 at V.R .Siddhartha College Of Engineering kanuru Vijayawada

[8] One day Workshop On 'Women Sensiation'at JNTU Kakinada On 26 April 2011

[9]One Day Seminar On' Research Methodologies' at JNTU Kakinada On 24 November 2009

[10] One Day Seminar On 'Effective Teaching Methods' at JNTU Kakinada on 22 April 2011 Conducted by School of management studies

JOURNALS:

[1]Surayamubeen,DR.A.M.Prasad,DR.A.Jhansi Rani 'Smart Antenna its Algorithms and Implementation' International Journal of Advanced Research in Computer Science and Software Engineering Volume 2, Issue 4, April 2012 ISSN: 2277 128X pp 97-101

[2]Surayamubeen,DR.A.M.Prasad,DR.A.Jhansi Rani ' Smart Antennas It's Beam Forming And DOA' International Journal of Scientific and Research Publications, Volume 2, Issue 5, May 2012 ISSN: 2250-3153 pp 1-5

[3]Surayamubeen, Dr.A.M.Prasad, DR.A.Jhansi Rani 'Smart Antennas Implementation For MIMO' Journal of Information Engineering and Applications ISSN 2225-0506 Volume 2, No.4, 2012 Impact factor 5.65 Europe journal pp 09-16

[4] Surayamubeen, Dr.A.M.Prasad, Dr.A.Jhansi Rani 'Smart Antenna Implementation Using MUSIC And ESPRIT Algorithms' International Journal of Electronics and Communication Technology (IJECT) ISSN: 2230-7109 Volume 3, Issue 2, April - June 2012 pp 171-173

[5]Surayamubeen, Dr.A.M.Prasad, Dr.A.Jhansi Rani 'Smart Antenna For DOA Using MUSIC And ESPRIT' International organization for scientific research ISSN 2278-2834, Volume 1, Issue 1 2012 pp 12-17

[6] Surayamubeen, Dr.A.M.Prasad, Dr.A.Jhansi Rani 'Smart antenna and its Beam forming implementation'IJAIR journal ISSN: 2278-7844 Volume 1,Issue 1 2012 pp 1-6

International Conferences

[1]Suraya Mubeen, Dr.A.M.Prasad, Dr.A. Jhansi Rani ' Switched Beam Approach :Beam Forming In 3G & 4G Mobile Communications' International Conference on Computing, Communications, Systems and Aeronautics (ICCCSA-2012) Malla Reddy College of Engineering And Technology March 30th -31st 2012 EC12039 ISBN NUMBER:978-81-921580-8-2

[2]Surayamubeen,Dr.A.JhansiRani,Dr.A.M.Prasad 'Adaptive Array Antennas By Using LMS And SMI Algorithms Reduces Interference' International Conference at Godavari Institute Of Engineering and Technology, 2nd-3rd march 2012

National Conferences

[1]Surayamubeen,Dr.A.JhansiRani, Dr.A.M.Prasad 'Hybrid S-parameters For Complex Platforms In Electronic Systems' National Conference at Andhra University in EMI/EMC Design *Best Paper Award* held during 21st -22nd December 2011

[2]Suraya Mubeen, Dr.A.Jhansi Rani 'Next Generation Wireless Communication' National Conference On Advances In Communication Technologies at GITAM University   held during January 9th-10th 2012

[3]Surayamubeen, Dr.A.M.Prasad, Dr.A.Jhansi Rani 'Adaptive and Switched Beam Systems for Wireless Communications' at National Conference on Recent Advances in Electronics,Communication and Instrumentation Engineering Technologies at Bapatla Engineering college BECNC16031201 held during March 16th -17th 2012

[4]Surayamubeen, Dr.A.M.Prasad,Dr.A.Jhansi Rani 'Smart Antennas For Line Of Sight Communications' National Conference On Communications and Computer Aided Electronic systems Chaitanya Bharathi institute of Technology held during April 20th -21st 2012

ACHEIVEMENT

Received Best Paper Award FOR National Conference In 'EMI –EMC 2011'   WITH TITLE "**Hybrid S-Parameters For Complex Platforms In Electronic Systems".**
JI Scientist in Jour informatics journal indexed by IOSR

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Editoral member for IJRCCT journal

Professional Memberships*; IETE, ISTE, IAENG, IACSIT,IRACST, ACCEE,IJETAE*

Supporting Activities:
- Took the charge as Academic coordinator and project coordinator at various colleges
- Discipline Committee member at central level for Department of ECE at KL university
- Imparted GATE coaching for graduate level
- Guided students for major projects and mini projects at graduate level
- In charge for communication lab since 2years
- In charge for students Rand D committee at KL University
- Women forum representative at KL University
- Students grievance committee and departmental committee representative
- Organized events at engineering college at ELURU
- Association activities carried out.
- Carried out seminars and presentations at various institutes.

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B.TECH: Robotics is a versatile multi displinary field, spanning a number of scientific and engineering areas where the latest knowledge and technologies in part how we determine the scope of study .we propose a pc for control of robot instead of remote control which are useful in several industrial applications, computer assisted surgery, learning homeland, security and human medical services. Advanced research in the new generation of robot focuses on micro and nano technologies.

M.TECH: Adaptive antennas and its algorithm for implementing array properties many parameters calculations in MATLAB for reducing noise and interferences using LMS algorithms and The Least Mean Square (LMS) algorithm, introduced in is an adaptive algorithm, which uses a gradient-based method of steepest decent LMS algorithm uses the estimates of the gradient vector from the available data. LMS incorporates an iterative procedure that makes successive corrections to the weight vector in the direction of the negative of the gradient vector which eventually leads to the minimum mean square error. Compared to other algorithms LMS algorithm is relatively simple; it does not require correlation function calculation nor does it require matrix inversions *.Under research and development of ECE.*

Ph.D : Smart antennas (also known as adaptive array antennas, multiple antennas and recently MIMO) are antenna arrays with smart signal processing algorithms used to identify spatial signal signature such as the direction of arrival (DOA) of the signal, and use it to calculate beam forming vectors, to track and locate the antenna beam on the mobile/target. The antenna could optionally be any sensor. Smart antenna techniques are used notably in acoustic signal

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processing, track and scan RADAR, radio astronomy and radio telescopes, and mostly in cellular systems like W-CDMA and UMTS. Smart antennas have two main functions: DOA estimation and Beam forming. Smart antenna systems allow for more efficient use of the overburdened cellular spectrum. Smart antennas provide greater capacity from existing cell sites, more consistent coverage with improved call quality, and a reduction in the number of antennas. Smart antennas allow service providers the ability to elegantly clear spectrum for digital services, and, in the deployment of collocated CDMA systems, allow the analog and digital networks to use the same antennas without having the same sector orientations and sector beam widths. The technology of smart antenna for mobile communications has received enormous interest worldwide in recent decade. A smart antenna forms a pattern that adapts to the current radio conditions improving the communication link. The principal reason for applying smart antennas is the possibility for a large increase in capacity and to introduce new services. Smart antennas, when used appropriately, help in improving the system performance by increasing channel capacity and spectrum efficiency, extending range coverage, steering multiple beams to track many mobiles. The proposed research work tells us about beam forming and implementation.

DECLARATION: I hereby declare that the above written particulars are true to the best of my knowledgeandbelief.

SURAYA MUBEEN