



Maringanti Hima Bindu

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Purpose : To pursue and experience teaching in the field of Computer Science and Artificial Intelligence, System programming, Electronic Devices and Circuits, Digital Electronics, Image Processing and Pattern Recognition, Modeling and Simulation ,Compiler Design, Finite Languages and Automata theory, Natural Language Processing, Data Structures and Algorithms, Computer Architecture and Organization, Human Computer Interaction, Object Oriented Software Engineering, Cognitive Science.

Education qualification

Educational Qualification	Name of Institution	Specialization	Name of Board/ University	Year of Completion	% of Marks / CGPA
SSLC	Singareni Collieries High School, Mandamari	Composite Mathematics	SSC Board, Andhra Pradesh	1983	82
HSC	St.Ann's Degree College for Women, Hyderabad	Maths, Physics, Chemistry	Intermediate Board, Andhra Pradesh	1985	80
UG Degree	MVSR Engg. College, Hyderabad	Electronics & Communication Engg.	Osmania, Hyderabad	1989	70
PG Degree	I.S.M., Dhanbad	Computer Science & Applications	Indian School of Mines	1994	4.74/5
Ph.D Degree	IIIT, Allahabad	AI and Cognition	IIIT, Allahabad	2009	

Academic Appointments :

Work Experience

Name of the Institution	Designation	Duration		Nature of Duties	Part Time/Full Time	No. of years of experience
		From	TILL DATE			
JIIT, NOIDA	Asst. Professor	OCT, 2007		Teaching & Research	Full Time	4 years
IIIT, ALLAHABAD	Asst. Professor	AUG, 2003	JUNE, 2007	Teaching & Research	Full Time	4 years
RAJA RAJESWARI ENGG. COLLEGE, CHENNAI	Asst. Professor	SEP, 2000	JULY, 2003	Teaching & Research	Full Time	3 years
CV RAMAN COLLEGE OF ENGG BHUBANESWAR.	Asst. Professor & HOD	JULY, 1998	AUG, 2000	Teaching, Admin, Board of Studies Member, Utkal Univ.	Full Time	2 years
ORISSA ENGG. COLLEGE, BHUBANESWAR	LECTURER	SEP, 1995	JUNE, 1998	TEACHING	FULL TIME	3 years
BIHAR INSTITUTE OF TECHNOLOGY	LECTURER	JULY, 1989	JUNE,	TEACHING	PART-TIME	3 years

Research Experience

Name of the Colleges / Organization	Designation	Period		Nature of Duties	No. of years of experience
		From	To		
INDIAN SCHOOL OF MINES	RESEARCH ASSOCIATE, BHABA ATOMIC RESEARCH CENTRE	FEBRUARY, 1994	MAY, 1995	Design of Mineral Sand Beneficiation Flowsheets	1 year
JIIT, NOIDA	CO-PRINCIPAL INVESTIGATOR	APRIL, 2009	TILL DATE	Planning, Modularization, Modeling and Execution	3 years

Consulting Positions : **1995 – 2003 July** *External Examiner, Center Evaluator, Member of Board of Studies, Utkal University, Orissa, Controller of Examinations.*

Scientific Activities : **1995 – present** *Seminars and Paper presentations, Organizing Seminars and National/International Workshops*

Honors and Awards :

- **National Merit Scholarship** in X standard
- Scored **top 10%** in State Engineering Examination.
- Secured honors in Bachelor of Engineering.
- Scored **CGPA 4.74/5.0 in Masters in Technology.**
- National Merit Certificate in Mathematics **Olympiad.**
- **Senior Research Scientist** Nomination by NCST, Mumbai, 2001.
- **One of the organizers of** an International conference, ISPR – 2005 at IIIT, Allahabad, India.
- **Reviewer** of the International **Journal** of Systemics, Informatics and Cybernetics, Florida, U.S.A.

- **Reviewer** of Book on *Multimedia Concepts and Communication* to be published by **Pearson Education, Asia in 2006 and also a similar title of Tata McgrawHill Publishers in 2007.**
- **Board Member** of International Institute of Information Sciences, **IIISC, USA.**
- **One of the Reviewers of** the International Conference of Wireless Communication and Sensor Networks (WCSN 2007) at IIIT,India.
- **Organizing Committee Member of** an Intensive Course on Soft Computing and Applications held between 15th June and 20th June, 2007, at IIIT, Allahabad.
- **Publication Chair of** the International Conference on Contemporary Computing, IC3,2008, organized by IIITU in collaboration with University of Florida.
- **Reviewer of the** International Conference on Intelligent Interactive Technologies and Multimedia, IITM-2010, organized by IIIT, Allahabad.
- **Reviewer of** the International Conference on Information Systems, Technology and Management, ICISTM-2011.
- **Reviewer of Green IT 2011** conference, organized by Global Science and Technology Forum, Singapore.
- **TPC member** of 2nd Annual International conference on Data Analysis, Data Quality and Metadata Management, DAMD 2011, held at Singapore, by GSTF.

Memberships :

- Senior Member of Computer Society of India
- Member of Mineral Engineers Society
- Life Member of ISTE (Indian Society of Technical Education)
- Selected as Senior Research Scientist by NCST, Mumbai.
- Member of IEEE.
- Member of ACM.

Teaching Activities:

- Attended Course in **NMIT, Australia** on “ Networking and Multimedia”.
- Attended programs on “E-Commerce Technologies,” “Multimedia and Internet Technologies,” “Mathematical modeling and Computational methods,” “An Approach to Intelligent Machining” organized by ISTE and STPI and International workshop on “Internet Tools for Network Administration” organized by **INRIA, France.**
- Participated in an International Conference on “ **Entertainment Computing** “ at **Carnegie Mellon University**, Pittsburgh, PA, USA, exempted from paying the registration fees.
- Guided and guiding B.Tech. and M.Tech. students in their final semester project work.
- Has 7 Research Scholars working under me in the areas of Mobile Networks, Natural Language Processing, Data Mining, Compiler Design and Robotics in Agriculture.
- External examiner for Utkal University, I.S.M., Dhanbad and Madras University.
- External Examiner of BIT, Mesra Extension centre at Noida.

Papers Published:

1. M.Hima Bindu, "Semiotics and XML" presented at the International Conference on Systemics, Cybernetics and Informatics (ICSCI-2004), Hyderabad.
2. M.Hima Bindu, " Visual Semiotics and Human Emotions" presented at the International conference on Signal Processing and Robotics (ISPR-2004), IIIT, Allahabad.
3. M.Hima Bindu, "IT and Rural Development" presented at the National conference organized by C.V.Raman Engineering College.
4. M.Hima Bindu, " Women in Information Technology" presented at a National level seminar organized by ISTE,CVRAMAN Engg. College, Bhubaneswar.
5. M.Hima Bindu, " Visual Semiotics, Human Emotions and Neurotransmitters", Proceedings of International Conference on Artificial Intelligence (ICAI-04) at Las Vegas, Nevada, USA, Volume 1. CSREA Press 2004, ISBN 1-932415-31-9, Pages:515- 520. [*Indexed in Scopus*].
6. Ujjawal Kumar, K. Prashant, Manglik Prashank, M.Hima Bindu, " Facial Expression Recognition " at Systems Man and Cybernetics, SMC – 04 IEEE conference at Netherlands , UK. Volume 3, 10-13 Oct. 2004 Page(s):2220 - 2224 (2004).
7. Dhruv Kumar, M.Hima Bindu, "Backpropagation MLP Network Classifier and HMM based technique for Text-Independent Speaker Recognition" , International Conference of Systemics, Informatics, Cybernetics, ICSCI-05, IEEEExplore Indexed.
8. M.Hima Bindu, " ANUVADAK " - a word analyzer and translator for a subset of Sanskrit , presented and won Third Prize in the National conference at IIIT, Gwalior, MP, India, 2004.
9. M.Hima Bindu, "Cognitive Modeling and Emotions" Proceedings of WMSCI-05 , Orlando, Florida, USA, selected for inclusion in IJSCI.
10. Sahoo Tusharkanta, M.Hima Bindu, " Liabilities of HCI in the World of Disabled " proceedings of the World Congress of Applied Computing organized, International Conference on Computers for Special Needs, CPSN – 05, at Las Vegas, Nevada, USA, CSREA Press, ISBN:1-932415-78-5, Pages:33-39. [*Indexed by Wanfang Data*].
11. Reddy Naveen, M.Hima Bindu, " Emotion Recognition " in the Proceedings of International Conference of Informatics, Cybernetics and Systemics, ICSCI-06 at Hyderabad.
12. Gupta Priya, Tiwary Umashanker, M.Hima Bindu., " Cognitive Model – based Emotion Recognition from Facial Expressions for Live Human Interaction " in the proceedings of IEEE Symposium in Computational Intelligence in Image and Signal Processing, CIISP 2007,Hawaii, USA. Digital Object Identifier: [10.1109/CIISP.2007.369194](https://doi.org/10.1109/CIISP.2007.369194); Publication Year: 2007 , Page(s): 351 – 356.

13. Bharadwaj Shweta, Sharma Tanu, M.Hima Bindu., " Emotion Estimation using Physiological Signals " in IEEEExplore and accepted for presentation at The Region Ten Conferences, TENCON 2008, Digital Object Identifier: [10.1109/TENCON.2008.4766531](https://doi.org/10.1109/TENCON.2008.4766531) ,Publication Year: 2008 , Page(s):1– 5.
14. Sharma Samiksha, M.Hima Bindu., "A Domain Specific System Based on Winston's Learning Theory" , Accepted for presentation at International Conference on Artificial Intelligence and Pattern Recognition, AIPR-09, USA.
15. Rastogi Meghna, M.Hima Bindu., "Digital Reconstruction of Dravidian Architecture Symbols", Proceedings of International Conference of Systemics Cybernetics and Informatics -2010, *IEEEExplore indexed*.
16. Mehrotra, M., Goel, A., Agarwal, N., M. Hima Bindu, Sharma Bhudev, "Algorithm Classification using worst-case execution time", Proceedings - 2009 2nd IEEE International Conference on Computer Science and Information Technology, ICCSIT 2009, art. no. 5234725, pp. 286-290. Digital Object Identifier: [10.1109/ICCSIT.2009.5234725](https://doi.org/10.1109/ICCSIT.2009.5234725) [*Indexed in SCOPUS*].
17. Gupta Aishwarya, Gupta Vivek, M.Hima Bindu., "A Statistical Approach for Generating Headline of Hindi News Stories", Accepted for publication in International Conference on Computer Engineering and Technology, ICCET-April 2010, Chengdu, Sichuan, China, and Published by the Proceedings of National Conference of Soft Computing, April, 2010, ISSN: 0975-6981 and the Title is ACUMN indexed.
18. Puneet Singh, Ashutosh Kapoor, Vishal Kaushik, Hima Bindu Maringanti, "Architecture for Automated Tagging and Clustering of Song Files According to Mood", IJCSI International Journal of Computer Science Issues, Vol. 7, Issue 3, May 2010, ISSN (Online): 1694-0784; ISSN (Print): 1694-0814, **IF 0.242**.
19. K.Rajalakshmi, Prakash Kumar, M.Hima Bindu, "Hybridizing Iterative Local Search Algorithm for Assigning Cells to Switch in Cellular Mobile Network", accepted by International Journal of Soft Computing, 5(1): 7-12, April, 2010, ISSN: 1816-9503, **IF 1.909**.
20. Rajalakshmi Krishnamurthi, Prakash Kumar, Hima M Bindu, "Solving Base Station Subsystem Assignment Problem in Mobile Communication Networks using Hybridized Heuristic algorithm", 334-342, Proceedings [Communications in Computer and Information Science](#) 93 Springer 2010, ISBN 978-3-642-14830-9 Springer., Indexed in DBLP, Citeseer, Pubzone, GoogleScholar.
21. Bhavesh Kumar, Hima Bindu Maringanti, Krishna Asawa, " Adaptive Pragmatic Analysis of Natural Language", Proceedings of International Conference on Intelligent Interactive Technologies and Multimedia, IITM-2010, Archived in the ACM Digital Library.
22. Animesh Gupta, Kirti Srivastava, Hima Bindu Maringanti, " Mobile based Interaction System for the Paralyzed", Journal of Computing, JoC, published by Global Science and Technology Forum, GSTF , Singapore, pp.93-96, Vol.1, No.2, 2011, **IF 1.0**. [*to be indexed in Scopus and Science Direct*]
23. 23. Rajalakshmi, K., and Hima Bindu, M., "An Overview of Solution Approaches for Assignment Problem in Wireless Telecommunication Network", International

- Conference on Advances in Information Technology and Mobile Communication (AIM-2011), Springer Series in Communications in Computer and Information Science (CCIS), Volume 147, Part 3, pp. 407-410, April 2011 [*to be Indexed in Scopus, DBLP*].
24. Hema N, Hima Bindu Maringanti, Krishna Kant, “ Automation of Indian Agriculture to Increase Crop Productivity and Decrease Crop cost: A Review”, accepted in SEARCC-2011, December 23rd, 2011, International Conference, organized by CSI, Mumbai.
 25. Hima Bindu Maringanti, Aditya goil, Indraneel Srivastava, Sonali Satsangi, “ Embodied Conversational Agent Model” , Accepted in the International Conference on Affective Computing and Intelligent Interaction , ICACII -2012, to be held at Tapei, Taiwan, Feb, 2012. Journal of LNIT (indexed by ISTEP, Thompson), organized by Information Engineering Research Institute, USA, ISSN: 2070-1918. [*still computing*]
 26. Naman Sharma, Hima Bindu M, Krishna Asawa, “ Upper Body Gesture Recognition”, Accepted for oral presentation at the ACM conference, COMPUTE 2012, at Pune.
 27. Hema N, Krishna Kant, Hima Bindu Maringanti, “Automatic Light Control for White Marker Board in Conference/Seminar Hall using Ultrasound Sensor via RF Wireless Communication”, Accepted for oral presentation in 6th International Conference on Information Systems, Technology and Management, ICISTM-2012, France, LNCS-CCIS 285, pp. 408–413, 2012.
 28. Hema N, Krishna Kant, Hima Bindu M, “Automated Drip Irrigation for Palm Trees using Wireless Sensor Networks “, CIGR-Ageng conference , Spain, To be Published by Springer.
 29. Kavishi Aggarwal, Akshita Sinha, Hima Bindu Maringanti, “Performance Evaluation and Comparison of Classical and Heuristic Algorithms”, Accepted for oral presentation in the Springer Conference, SCAI-2012, New Delhi.
 30. Rashi Kacker, Hima Bindu Maringanti, “Personality analysis Through Handwriting”, Journal of Computing, published by Global Science and Technology Forum, Singapore, Vol.2 No.1, pp 90-95, 2012.
 31. Agam Goyal, Rashi Kacker, Hima Bindu Maringanti, “Psycho-analysis using Natural Language Processing and Neural Networks”, Accepted for oral presentation in the Springer Conference, SCAI -2012, Chennai.
 32. Hima Bindu Maringanti, Aditya goil, Indraneel Srivastav, Sonali Satsangi, “*Embodied Conversational Agent Model*”, International Conference on Affective Computing and Intelligent Interaction (ICACII-2012), Lecture Notes in Information Technology, IERI, USA, Vol.10, pp. 235-240, 2012.
 33. Jitendra Nath Shrivastava, Maringanti Hima Bindu, “ Trends, Issues and challenges concerning spam mails”, International Journal of Information Technology and Computer Science (IJITCS), ISSN: 2074-9007 (Print), ISSN: 2074-9015 (Online) ; <http://www.mecspress.org/ijitcs/index.html>.
 34. Hima Bindu Maringanti, Krishna Asawa, Naman Agarwal, Radhika Agarwal, “Therapeutic Video Tagging Model”, accepted for oral presentation at Second World Congress on Information and Communication Technologies (WICT 2012) be held at IIITM-Trivandrum, Kerala, India.

35. K. Lakshmanarao, Hima Bindu Maringanti, "Survey on security issues of wireless sensor networks", National Conference on Current Trends in Computing (NCCTC), ISBN: 978-3-642-24819-6, pp. 15-24, March,2014.
36. Pushpa Mamoria, Rajeev Shakya, Hima Bindu Maringanti, "A Backoff Analysis To Mitigate The Correlated Contention For Event-Driven Wireless Sensor Networks", National Conference on Current Trends in Computing (NCCTC), ISBN: 978-3-642-24819-6, pp.36-44, March,2014.
37. Ambarish Parida, Hima Bindu Maringanti, "Hybrid Approach For Odia Handwritten Character Recognition" National Conference on Current Trends in Computing (NCCTC), ISBN: 978-3-642-24819-6, pp.45-51, March,2014.
38. Chitralekha Marandi, Hima Bindu Maringanti, "Santali Morphological Analysis" National Conference on Current Trends in Computing (NCCTC) , ISBN: 978-3-642-24819-6, pp.52-59, March,2014.
39. Bishwamitra Rana, Hima Bindu Maringanti, "Simulation of Behavior of Neurotransmitters" National Conference on Current Trends in Computing (NCCTC), ISBN: 978-3-642-24819-6, pp.67-72, March,2014.
40. Gayatri Dey, Hima Bindu Maringanti, "Thematic Analysis of Odia Language" National Conference on Current Trends in Computing (NCCTC), ISBN: 978-3-642-24819-6, pp.73-81, March,2014.
41. Meenakhi Sahu, Hima Bindu Maringanti, "Multi-Modal Perception Model Of Sentence Comprehension" National Conference on Current Trends in Computing (NCCTC) , ISBN: 978-3-642-24819-6, pp.82-87, March,2014.
42. Meenakhi Sahu, Ambarish Parida, M. Hima Bindu, "A Rule Based Cognitive System of Emotion Recognition" Journal of Artificial Intelligence, 2014, Vol 1 No 1.
43. Meenakhi Sahu, Hima Bindu Maringanti, "Cognitive Model Of Sentence Comprehension", ICRTCSE, Central University, Patna, 2014.
44. Gayatri Dey, Hima Bindu Maringanti, "Gayatri Dey, "Paninian Framework for Odia Language Processing", National Conference on Indian Language Computing (NCILC-2014) February 2014, Indexed in CSI Digital Library URI: <http://hdl.handle.net/123456789/665>.
45. Sk. Riazur Raheman, M.Hima Bindu, Amiya Kumar Rath,"An Overview of Slicing and its Different Approaches", International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), 3(11), PP. 435-442, Nov, 2013.
46. Sk. Riazur Raheman, M. Hima Bindu, Amiya Kumar Rath," Dynamic Slicing of Aspect Oriented Program: A Comparative Study", International Journal of Recent and Innovative Trends in Computing and Communication (IJRITCC) Vol. 2, Issue: 2, pp. 249-259, Feb, 2014.

Administrative Services :

- Dean, Faculty (Science)
- Department Head
- Examination Superintendent
- Seminar Moderator

- Prof i/c, Women Studies and Sexual Harassment
- Training and Placement
- Student Counselor
- Co-ordinator, NMEICT Project
- Director, Computer Centre
- Director, International Cell
- Superintendent, Ladies Hostels

Extra – Curricular Activities:

- Multi-disciplinary Orator
- Sports and Games – Athletics and Carroms
- Music – Classical and Light
- Dance – folk and Balle
- Active Member of an NGO – ‘Pankhudi’
- Social Service
- Yoga and Meditation

References:

1. Prof. Sanghamitra Mohanty, Ex-VC, North Orissa University, Baripada, Orissa.
e-mail: sangham1@rediffmail.com; Tel: 9437141890.
2. Prof. J.P. Gupta, Vice Chancellor, Jaypee Institute of Information Technology, Noida; e-mail: jaip.gupta@gmail.com; Tel: 09810024107.
3. Dr.Naveen Prakash, Director, Manav Rachna International University, Faridabad
e-mail: praknav@hotmail.com; Tel: 09910641576.
4. Dr.M.D.Tiwari, Ex-Director, IIIT, Allahabad; e-mail: mdt@iiita.ac.in; Tel: 0532-2922027.
5. Prof. M.Radhakrishna, Emeritus Professor, IIIT , Allahabad.
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