

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Dr.M.Brindha was born in Nagercoil, Tamil Nadu, India, in 1983. She received her B.E. degree from Dr. Sivanthi Aditanar College of Engineering, Tiruchendur, India in the year of 2004; and her M. E. Degree from Government College of Engineering, Tirunelveli, India in the year of 2006. She received her Ph.D. degree from National Institute of Technology, Tiruchirappalli, in 2016. From February 2009 onwards she is working as an Assistant Professor in the Department of Computer Science and Engineering, National Institute of Technology Tiruchirappalli, Tamilnadu, India. Her areas of interest include Multimedia security, Database security, Cryptanalytic attacks, Multimedia compression, Chaos Theory, Cellular automata.

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1. Name: M. Brindha
2. Designation: Assistant Professor
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4. Telephone: 0431-2503218
5. Email (Primary): brindham@nitt.edu Email (Secondary) brindhailango@gmail.com
6. Field(s) of Specialization: Multimedia security, Database security, Multimedia compression, Chaos Theory

7. Employment Profile

Job Title	Employer	From	To
Lecturer	Cape Institute of Technology, Levengipuram	11 September, 2006	15 May, 2007
Research Associate	National Institute of Technology, Tiruchirappalli	20 September, 2007	13 June, 2008
Lecturer	Anna University, Tirunelveli	1 September, 2008	13 February, 2009
Assistant Professor	National Institute of Technology, Tiruchirappalli	19 February, 2009	Till date

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
B.E	Manonmaniam Sundaranar University	2004	First Class With Distinction	Electrical and Electronics Engineering
M.E	Anna University, Chennai	2006	First Class with Distinction	Computer Science and Engineering
Ph.D	National Institute of Technology, Tiruchirappalli	2016	Computer Science and Engineering	Multimedia Security

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Estate welfare committee member	Institution	2016	2017
MIS committee member	Institution	2017	2018

10. Details of Academic Work

- (i) Curriculum Development: Multimedia Systems for B. Tech., Imaging and Multimedia Systems for M. Tech.
- (ii) Courses taught at Postgraduate and Undergraduate levels: Database Management Systems, Advanced Database Management Systems, Multimedia Systems, Software Engineering, Basics of Programming, Digital Computer Fundamentals
- (iii) Projects guided at Postgraduate level: 8

11. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Design and Development of ICT-enabled cloud based mobile application for the self-promotion of products developed by self-help groups	DST	1/11/2017		Ongoing
Electronification of ground water control and conveyor system in mines.	Ministry of coal , Government of India	14/7/2017		Ongoing

12. Number of PhDs Ongoing: 5

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13. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
21st and 22nd September	Smart and secure environment	National	Participant	Madurai Kamaraj University,	Madurai
12th to 22 nd December 2011.	Solar Photo Voltaics: Fundamentals Technologies and Applications	National	Participant	IIT	Bombay
18th and 19th February 2012.	Writing Effective Conference Papers	National	Participant	IIT	Bombay
May 9-10, 2013.	Perspectives on curriculum	Local	Participant	National Institute of Technology	Tiruchirappalli
April 28 th and 29 th , 2015	Conclave on Academic Reforms (CAR 2015)	Local	Participant	National Institute of Technology	Tiruchirappalli
August 28 th and 29 th , 2017	17 th National workshop on cryptology (NWC-2017)	National	Participant	National Institute of Technology	Tiruchirappalli
December 4 th to 9 th 2017	Capacity building of women managers in Higher education	Local	Participant	National Institute of Technology	Tiruchirappalli

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14. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
TEQIP-II Sponsored Workshop "Cyber Security and Forensics"-	National	5 th – 7 th August 2017	Co-ordinator	NIT, Trichy
Training of FPGA based Image Encryption Kit”	National	2 nd March 2017	Co-ordinator	NIT, Trichy
Technical Education in National Context: Challenges and Strategies	National	5 th – 7 th October 2017	Co-ordinator	NIT, Trichy
Learning Computer Skillset	National	20 th – 24 th October 2017	Co-ordinator	NIT, Trichy
Soft Computing Techniques	National	26 th – 30 th October 2017	Co-ordinator	NIT, Trichy
Advanced Data bases and Data Analytics	National	6 th – 10 th Nov 2017	Co-ordinator	NIT, Trichy
Basics of Programming	National	11 th – 15 th Nov 2017	Co-ordinator	NIT, Trichy

15. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization
Life	Computer Society of India

16. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
M.Brindha & N.Ammasai Gounden	A chaos based image encryption and lossless compression algorithm using hash table and Chinese Remainder Theorem	Applied Soft Computing (Elsevier)	Vol. 40	379-390	2016	4.004

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M.Brindha & N.Ammasai Gounden	Image encryption scheme based on block-based confusion and multiple levels of diffusion	IET Computer Vision	Vol.10, Issue.6	593- 602	2016	1.132
M.Brindha, N. Ammasai Gounden. and M. sriram	“A hybrid image encryption algorithm using chaos and conway's game-of-life cellular automata	Security and Communication Networks (Wiley)	Vol.9, No.7	634-651	2015	
S. Subash Dangol, S.Selvakumar and M.Brindha	Genuine ARP(GARP) - A Broadcast based Stateful Authentication Protocol	ACM. Sigsoft Software Engineering Notes	Vol.36, No.4	1-10	2011	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Venue	Year
M. Brindha	Periodicity Analysis of Arnold cat map and its application to image encryption	Inventive Computing and Informatics (ICICI 2017), IEEE Publishers)	Coimbatore, India.	2017
M. Brindha	Multiple stage image encryption using chaotic logistic map	International Conference on Intelligent Sustainable Systems (ICISS 2017)	Palladam, India.	2017
M. DeviPriya, M. Brindha	A Real Time Image Encryption based on chaos	International Conference on Inventive Computing and Informatics (ICICI 2017)	Coimbatore, India.	2017
M. Devipriya, M. Brindha	Moving Object Tracking using FPGA	International Conference on Intelligent Sustainable Systems (ICISS 2017)	Palladam, India	2017
M. Brindha	Digital camera with real time chaotic image encryption	International Conference on Intelligent Sustainable Systems (ICISS 2017)	Palladam, India	2017
R. Vidhya, M. Brindha	Recursively seeded image encryption algorithm	ICoAC 2017	Chennai	2017
M. Brindha	Confidentiality, Integrity and authentication of DICOM medical images	2nd International Conference on Inventive Systems and Control (ICISC 2018)	Coimbatore, India	2018

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R. Vidhya, M. Brindha	A novel dynamic Key based chaotic image encryption” in the	National workshop on cryptology (NWC) 2017	NIT, Trichy	2017
M. Brindha, S. Selvakumar	Link layer jamming attacks in wireless sensor networks- A survey	CDBR-SSE project	Anna university, Chennai	2007
M. Brindha, C. Annadurai	A new dynamic finite state vector Quantization algorithm for image compression	“High Performance Computing Vision’06”	GCE, Tirunelveli, TN.	2006
M. Brindha, C. Annadurai	A new dynamic finite state vector Quantization algorithm for image compression	Emerging Technologies in Electronics Systems (ETES’06)”	Noorul Islam College of Engineering Kumaracoil.	2006