


## Faculty Profile

<b>Name of Faculty</b>	Chaitra N	
<b>Department</b>	Electronics & Communication Engg.	
<b>Qualification</b>	B.E., M.Tech, (Ph.D)	
<b>Designation</b>	Assistant Professor	
<b>Area of specialization</b>	Image processing, Pattern classification, Speech processing	
<b>Date of Joining BNMIT</b>	23.07.2009	
<b>Nature of Association (Regular/Contractual/Adjunct)</b>	Regular	
<b>e-mail</b>	chaitran@bnmit.in, chaitranagraj@gmail.com	
<b>No. of years of Experience</b>	Teaching: 9 years Industry: 2 years	

### Academic Qualifications

- Currently **pursuing Ph.D.** in VTU under the guidance of Dr.P.A.Vijaya, Professor & HoD, Dept. of ECE, BNMIT, Bangalore.
- **M.Tech** (2008), Digital Communication, RVCE, Bangalore from VTU (**FCD, 1<sup>st</sup> Rank**).
- **B.E.** (2002), Telecommunication Engineering, BMSCE, Bangalore from VTU (**First Class with Distinction**).

### Working Experience Details

- Assistant Professor, Dept. of ECE, BNMIT, Bangalore, India (2012 – Till date).
- Lecturer, Dept. of ECE, BNMIT, Bangalore, India (2009 – 2012).
- Software Engineer, Infosys Technologies Ltd., Bangalore, India (2003-2005).

### Courses taught

Digital Signal Processing, DSP Algorithms & Architecture, Image Processing, Microprocessors, Multimedia Communications, Programming in C++, Management & Entrepreneurship, Artificial Neural Networks.

### Awards/ Achievements:

- **Gold Medal and First rank in M.Tech** (Digital Communication) from VTU.
- **“Best Faculty Award”** for BNMIT for the year 2014-15, conferred by Cognizant Technologies Ltd.
- **“Best Paper Award”** for “Nonlinear Dynamical analysis of speech signals” at VCASAN-2013, BNMIT, Bangalore.
- Fundamental Neuroscience for Neuroimaging by Johns Hopkins University on Coursera. Certificate earned at Sunday, May 19, 2019

## **Research Publications:**

### **I. International Journals**

1. **Chaitra N**, Dr.P.A.Vijaya, “Machine Learning Based Comparison of Pearson’s and Partial Correlation Measures to Quantify Functional Connectivity in the Human Brain”, International Journal of Neuroscience and Behavioural Science, Vol. 6, No. 3, pp. 23 – 30, Jun 2018.
2. **Chaitra N**, Dr.P.A.Vijaya, “Pattern Classification of Autistic Individuals using Brain Imaging Data: A Review”, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Vol. 6, Issue 6, June 2016, pp. 114-119.
3. Sandya M.J, **Chaitra N**, Ramudu B, “Design and Implementation of Refresh and Timing Controller Unit for LLPDDR2 Memory Controller”, International Journal of Computer Applications Technology and Research, Volume 3– Issue 6, pp. 390- 394, 2014.
4. Arpitha D, Chaitra C N, Manasa M, **Chaitra N**, “Voice Conversion Based On Hidden Markov Model”, International Journal of Advanced Computer Research, Vol.-2 No.-4 Issue-6, December-2012.

### **II. International /National Conference Proceedings**

1. **Chaitra N**, Chethana L, Menaka Shankar, Manaswini S, “Comparing Linear and Non-linear connectivity measures for the classification of Alzheimer’s patients”, International Conference on Inventive Research in Computing Applications (ICIRCA 2018), 11<sup>th</sup> -12<sup>th</sup> July 2018 organized by RVS College of Engineering & Technology, Coimbatore, India (IEEE Xplore).
2. **Chaitra N**, Dr.P.A.Vijaya, “Comparing Univalent and Bivalent Brain Functional Connectivity Measures Using Machine Learning”, 4<sup>th</sup> International Conference on Signal Processing, Communications and Networking (ICSCN 2017) held during March 16<sup>th</sup> -18<sup>th</sup>, 2017 at MIT, Anna University, Chennai. (IEEE Xplore).
3. Vasuki Shankar, Murali Mohan Deshpande, **Chaitra N**, S Aditi, “Automatic detection of Acute Lymphoblastic Leukemia using Image Processing”, IEEE International Conference on Advances in Computer Applications (ICACA 2016), 24<sup>th</sup> Oct 2016, held at Bharathiar University, Coimbatore, India (IEEE Xplore).
4. Aathreya S Bhat, Amith V S, Namrata S Prasad, **Chaitra N**, “Template Matching Technique for Panoramic Image Stitching”, 7th Asia Modelling Symposium, (AMS2013), 23<sup>rd</sup> -25<sup>th</sup> July 2013, Hong Kong (IEEE Xplore).
5. **Chaitra N**, Murali Mohan D, D Narayana Dutt, “Nonlinear Dynamical analysis of speech signals”, VCASAN 2013 held during 17<sup>th</sup> -19<sup>th</sup> July 2013, at BNMIT, Bangalore (Springer Publication).
6. Chaitanya Bapani, **Chaitra N**, Veena S Chakravarthi, “MSB-First Bit Serial Motion Estimation Architecture for H.264/AVC”, VCASAN 2013 held during 17<sup>th</sup> -19<sup>th</sup> July 2013 at BNMIT, Bangalore.
7. Avinash N Kuncham, Jayanth V Koundinya, **Chaitra N**, “Simulation of Guitar multi effects using DSP algorithm”, International conference on current trends in Engineering & Management, ICCTEM 2012, Mysore.
8. Arpitha D, Chaitra C N, Manasa M, **Chaitra N**, “Image Morphing based on pixel transformation”, 6<sup>th</sup> National conference on Recent trends in computer science & Engineering, held during 14<sup>th</sup> October-2012 at SJBIT, Bangalore.
9. **Chaitra N**, Kishore J., Hanuma Teja, Ajay G.S., “Modelling of speech using linear Autoregressive & Non Linear Hammerstein models”, International conference on Emerging trends in Engineering, ICETE – 2011 at NMAM Institute of Technology, Nitte, India.

10. M Hanuma Teja, **Chaitra N**, “Computationally efficient speaker identification system using AMDF & LPC”, 3<sup>rd</sup> International conference on Electronics & Computer Technology – ICECT 2011, 8<sup>th</sup> – 10<sup>th</sup> April 2011, Kanyakumari. (IEEE Xplore).
11. **Chaitra N**, Prof. D. Narayana Dutt, Murali Mohan D., “Nonlinear modelling of noisy & clean speech using exponential auto regressive model”, International conference on emerging trends in signal processing & VLSI design, SPVL – 2010 at Guru Nanak Engineering college, Hyderabad.

#### **Participation in Training courses/Seminars/Workshops**

1. Participated in Faculty Development Programme on “**IoT based project design and development**” organized by Department of ECE, BNMIT, Bangalore during 24<sup>th</sup> -29<sup>th</sup> June 2019.
2. Participated in Faculty Development Programme on “**Artificial Intelligence & Machine Learning**” by M/s Cognizant during 20<sup>th</sup> & 21<sup>st</sup> June 2019 at BNMIT, Bangalore.
3. Participated in Workshop on “**Machine Learning**” during 29<sup>th</sup> March to 8<sup>th</sup> April organized by IEEE BNMIT Student branch, BNMIT, Bangalore.
4. Participated in Faculty Development Programme on “**MSP430 Micro Controller and Its Applications**” organized by the Department of ECE, BNMIT, Bangalore during 31<sup>st</sup> July to 5<sup>th</sup> Aug 2017.
5. Participated in Faculty Development Programme on “**ARM CORTEX M3**” organized by the Department of ECE, BNMIT, Bangalore during 8<sup>th</sup> -14<sup>th</sup> Jan 2016.
6. Participated in Faculty Development Programme on “**Speech Signal Processing and its Applications**” organized by the SJCE, Mysore during 6<sup>th</sup> -7<sup>th</sup> Nov 2015.
7. Participated in Workshop on “**Research Methodologies & Latex**” during 18<sup>th</sup> -20<sup>th</sup> March 2015 at VTU Regional Office, Bangalore.

#### **Visits Abroad:**

Visited and Worked for a period of twenty days (from 10th to 30th July 2017) at **AU MRI Research Center, Department of Electrical and Computer Engineering, Auburn University, USA** to carry out a part of the collaborative research on “Pattern classification of autistic individuals using brain imaging data”.

#### **Personal Details:**

- **Date of Birth:** 20<sup>th</sup> August
- **Gender:** Female.
- **Marital status:** Married.
- **Hobbies & Interests:** Photography & Travelling.

3<sup>rd</sup> August 2019

**CHAITRA N**