

## **Bio-Data**

1. **Name** : NIRANJAN N. CHIPLUNKAR
2. **Qualification** : B.E, M.Tech, Ph.D
3. **Sex** : Male
4. **Marital Status** : Married
5. **Date of Birth** : 27<sup>th</sup> Dec, 1964
6. **Category** : General
7. **Nationality** : Indian
8. **Present Position** : Principal,  
NMAMIT, Nitte

9. **Address for communication** :

Principal

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**10. Academic Record:**

**Graduation** : B.E in E&C from NIE, Mysore, India, 1986 -(FCD)  
**Post-Graduation** : M.Tech in CSE from MIT, Manipal, India, 1990-(FCD)  
**Doctorate** : Ph.D in CSE from University of Mysore, India, 2002  
**Area of Research** : CAD for VLSI  
**Topic** : Design of Algorithms for optimum area utilization in VLSI ASICS

**11. Experience:**

<b>From</b>	<b>To</b>	<b>Organization</b>	<b>Designation</b>	<b>Total Period</b>
1987	1993	Manipal Institute of Technology (MIT), Madhav Nagar Manipal, Karnataka, 576104	Lecturer	6 Years
1993	1996	Manipal Institute of Technology (MIT), Madhav Nagar Manipal, Karnataka, 576104	Reader	3 Years
1997	2003	NMAMIT, P.O: Nitte Karkala Taluk, Udupi District, Karnataka, India-574 110	Professor	7 years
2003	2012	NMAMIT, P.O: Nitte Karkala Taluk, Udupi District, Karnataka, India-574 110	Professor & Head of the Department	9 years

2010	2012		Dean(Academics)	
13 <sup>th</sup> June 2012	Till date	Principal, NMAMIT, Nitte		
Total				31 years

## 12. Membership in Professional Bodies

- Life Member of ISTE (LM816 )
- Senior Member of IEEE (01492834)
- Senior Member of CSI (F8000642)
- Fellow of IE(India)

## 13. Awards and Recognitions

- “ Bharatiya Vidya Bhavan National award for Best Engineering College Principal 2014” given by ISTE
- “Excellent Achievement Award” by Centre for International Cooperation on Computerization (CICC), Govt. of Japan in 2002
- “Outstanding Alumnus of MIT, Manipal”, by Manipal University, Manipal, India in 2008
- Resume is published in “Marquis Who’s Who in World” in January 2009

## 14. Overseas Experience

- Attended a training on “Web Based Learning” at Tokyo, **Japan. Jan, 2002 – Mar, 2002.**
- Participated in Educational Fair at Colombo, **Srilanka. Aug,2004.**
- Participated in Educational Fair at **Abu Dhabi., UAEFeb, 2006.**
- Participated in School Presentations at Abu Dhabi, **Dubai and Sharjah , Dec, 2006.**
- Personal Visit to **Malaysia and Singapore during Dec. 2007**

- Attended EMC World Conference in **Las Vegas, USA** from **19<sup>th</sup> to 22<sup>nd</sup> May 2008**, with assistance from EMC, TEQIP and NET
- Visited **Stanford University, University of California at San Diego and California State University in San Diego** during **May 2008**
- Visited **Doha, Qatar** during **2009 April and June** on official assignment
- Presented a paper in ICCNT-2010 at **Bangkok, Thailand** on **24<sup>th</sup> April 2010**
- Presented a paper in ICCRD-2011 at **Shanghai, China** during **11-13<sup>th</sup> March 2011**
- Presented Poster paper on “Intel Embedded Systems lab. at NMAMIT, Nitte” in **Penang, Malaysia** during Intel Academic Forum **2012**.
- Presented an invited paper on “Industry Institute Interaction in India” at **Ritsumeikan University Japan** during **March 2013**
- Attended **GEDC Conference at Chicago** on **20-22<sup>nd</sup> October 2013**.
- Visited **Purdue University, Michigan State University and University of Wisconsin** on **23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> October 2013**
- Attended NMAMIT Alumni Meet in **Dubai** during **March 2015**

## **15. Co-Curricular Activities**

### **15.1 Lectures Delivered**

- Talk on “Automation in IC Design” for the CSI Student branch, NMAMIT, Nitte on **21<sup>st</sup> Jan. 2016**
- IUCEE Virtual academy webinar “effective use of information and communication technology in enhancing teaching learning outcomes”, **Tuesday Jan. 5<sup>th</sup> 2016, 3.30PM to 4.30PM**
- Lecture on “Research Issues in CSE” at Infosys campus, Mangalore during **March 30<sup>th</sup> 2014**
- Lecture on “Engineering Education” during the “Education & Career guidance program” arranged by “The Hindu” at Mangalore on **27<sup>th</sup> May 2012**

- Lecture on “Applications of Graph theoretic algorithms in computer Science Domain - CAD FOR VLSI” at MVSIT, Moodabidri on 17<sup>th</sup> March 2012 on the occasion of 5 days VTU-VGST sponsored Faculty Development Program
- Lecture on “What an IT Engineer must be good at ? “ at Sode Madhva Vadiraja Institute of Technology and Management (SMVITM) , Bantakal on 1/3/2012
- Lecture on “Tackling barrier factors for a quality research; Application of Signal analysis and computer imaging for non-invasive diagnosis” on 9<sup>th</sup> of Feb. 2012 at A B Shetty Memorial of Dental Sciences, Deralakatte, Mangalore – organized as part of workshop on “Need of Valid Research for Appropriate Clinical Care” by Dept. of Oral Biology
- Lecture on Lecture on “Device Drivers” at E&C Department of NMAMIT, Nitte on 8<sup>th</sup> Feb. 2012
- Lecture on “Software issues for electrical engineering students” organized by Elites on 6<sup>th</sup> of Feb. 2012 at E&E dept. of NMAMIT, Nitte
- Lecture on “Challenges and Issues in CSE Research” at St. Joseph’s Engineering College Mangalore for the faculty members of the college on 25<sup>th</sup> June 2011.
- Keynote address during the State Level Technical Paper presentation competition “Emergia 2011” organized by IEEE students chapter, Canara engg. College on 1/4/2011
- Lecture on “VLSI design and fabrication process” at Moodlakatte Institute of Technology, Kundapura on 31/10/2010
- Keynote address on “Parallel Architecture & Programming” at Faculty development program at Sahyadri College of Engineering, Mangalore on 17/9/2010
- VTU- Edusat Lecture on “Computer concepts and C Programming” on 6<sup>th</sup> and 7<sup>th</sup> September 2010 at VTU Studio, Bangalore
- Lecture on “Recent trends in communication and Computing” at Srinivasa Institute of Computer Application and Management , Mangalore during April 2010
- Keynote address on ”Ethics in Profession” at St.Joseph’s Engg. college Mangalore in April 2010

- Lecture on “Physical and MAC Layer issues in Sensor Networks” at AICTE sponsored, IT Department organized, summer school at NITK, Surathkal on 25/7/2008
- Lecture on “Embedded and Real time Systems” at IEEE Students’ chapter of Canara College of Engg., Mangalore on 5/4/2008
- Technical Talk on “Processor IC Design from a Computer engineer’s Perspective” at VCET, Puttur on 15/3/2008
- Lectures on “Secure Data Exchange and Data Formats” and “Server Sizing and Benchmarking” to the IT officers of Corporation Bank at Bank Head Office, Mangalore , 21<sup>st</sup> and 22<sup>nd</sup> October 2007
- “E-learning”, during UGC sponsored State Level Workshop for teachers at Mahavira College, Moodabidri, 24/3/2007
- “Computer Science as a Career”, at BhuvanendraCollege, Karkala, Jan 2006
- “VLSI Synthesis”, at Malnad College of Engineering Hassan, 16/2/2006
- “VLSI CAD and Low power VLSI issues”, at BVB college of Engineering , Hubli, 10/12/2005
- “Embedded System & RTOS”, at Vivekananda College of Engineering, Puttur, 24/11/2005
- “Embedded Systems and Computing”, at Jawaharlal Nehru College of Engineering, Shimoga ,8/11/2005
- “Preparing for ISO Certification and NBA Accreditation”, at KVG college of Engineering, Sullia, August 2005
- “Procurement procedure under TEQIP”, at Sir MVIT, Bangalore, June. 2005
- “IC Technologies”, at St. .Joseph’s College of Engineering, Mangalore 31/10/2004
- “Wi-Fi Technology”, during Telecommunication Day Celebrations, at DK District Telecom Office, Mangalore, 2004
- “Security issues in Data Communication” at Institute of Engineers, Local Chapter Office, Mangalore, 2004
- “Technical paper Writing”, at ISTE Chapter, NMAMIT, Nitte, 2004

- “Research Areas in Data Mining”, at MIT, Manipal, 3/8/2003
- “Compiler Design” at Dept. of MCA, NITK, Surathkal, Jan 2002
- Lecture series on “Computer Architecture “ at PDA College of Engineering, Gulbarga during 1992
- Lecture Series on “Computer Organization” at Kalpataru Institute of Technology, Tiptur during 1991.

### **15.2 Contribution to CSE Departmental Activities**

- Management responsibilities as Head of the Department of CSE
- Examiner for V.T.University Belagavi, Mangalore, Bangalore, Kuvempu, Kannur and Goa Universities

### **15.3 Contribution to College Activities**

- ISO Management Representative (MR) of NMAMIT, Nitte from 2003 to 2010
- TEQIP (Technical Education Quality Improvement Programme) Nodal officer from 2006

## **16. Publications**

### **16.1 International**

1. Srinivas Pai, **Niranjan Chiplunkar**, Srinivas Rao “Project based Learning: issues faced by faculty for its effective implementation, **5<sup>th</sup> International Conference** on Transformation in Engineering Education (ICTIEE), 8<sup>th</sup> and 9<sup>th</sup> January 2018, Thiagarajar College of Engineering, Madhurai
2. Karthik Pai.B.H. Dr. Nagesh H R, **Dr. Niranjan N Chiplunkar**, “Performance analysis of AODV and OLSR against routing attacks on random topologies in MANETS”, “**International Journal** of communication networks and distributed systems”-(under review)
3. Bhavitha BK, Anisha P Rodrigues, **Dr. Niranjan N Chiplunkar** “Comparative study of machine learning techniques in Sentimental analysis”,**International Conference**

on Inventive Communication and Computational Technologies(ICICCT-2017),held during 10-11,March 2017,at the Ranganathan Engineering College,Coimbatore,India,to be published in IEEE Explore.

4. Anisha P Rodrigues, **Dr. Niranjana N Chiplunkar** “Big data Mining :A survey on techniques involved in sentimental analysis”, 13<sup>th</sup> International IEEE India conference INDIACOM-2017 organized by BVICAM,New Delhi during 01-03 March 2017, To be published in IEEE Explorer.
5. Karthik Pai B.H. Dr. Nagesh H R, **Dr. Niranjana N Chiplunkar**, “Mitigation Mechanism for Selfish node Attack in MANETs”, “International Conference on Computing, Communication, Control and Automation, Pimpri Chinchwad College of Engineering, Pune”, 2017 (IEEE Xplore/Scopus indexed )
6. Venugopala P. S, Sarojadevi H, **Niranjana. N. Chiplunkar**, Evaluation of Video Watermarking Algorithms on Mobile Device, International Journal of Computer Aided Engineering and Technology in June 2017. **Inderscience publication**, ISSN online: 1757-2665 ISSN print: 1757-2657. Accepted for publication
7. Sunitha N V, Raju K, and **Niranjana N Chiplunkar**, “Performance Improvement of CUDA Applications by Reducing CPU-GPU Data Transfer Overhead”, ICICCT-2017, REC, Coimbatore., IEEE/ ISBN: 978-1-5090-5297-4/17 ©2017 IEEE.
8. Sumathi, **Dr. Niranjana N Chiplunkar**, “Dynamic Composition of Web Services by Service Invocation Dynamically” , IJEME ISSN: 2305-3623(Print), ISSN: 2305-8463, July 2017, DOI: 10.5815/ijeme.2017.04.05, pp 41-50 (open access).
9. Sumathi, **Dr. Niranjana N Chiplunkar** “Open Source APIs for Processing the XML Result of Web Services”, International Conference on Advances in Computing, Communications and Informatics (ICACCI) Paper-ID—2017 Paper ID : 1570363306 (Scopus indexed & Thomson Reuters indexed conference). Paper Category: Regular Paper (Oral Presentation), MIT – Manipal, IEEE-2017.

10. Anisha P Rodrigues, Archana Rao, **Dr. Niranjan N Chiplunkar**, “Sentiment Analysis of Real Time Twitter data using Big data Approach”,IEEE Sponsored 2nd International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS-2017),held during 21 - 23 December, 2017,at R.V. COLLEGE OF ENGINEERING ,Bengaluru,India
11. Aswitha TA,Anisha P Rodrigues,**Dr. Niranjan N Chiplunkar**, “Movie Dataset Analysis using Hadoop-Hive”,IEEE Sponsored 2nd International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS-2017), held during 21 - 23 December, 2017,at R.V. COLLEGE OF ENGINEERING ,Bengaluru,India
12. Anisha P Rodrigues,**Dr. Niranjan N Chiplunkar**,Aswitha TA “Big Data Analytics with Hadoop-Hive and MySQL:A Case Study”,4<sup>TH</sup> International Conference Computational Methods in Engineering and Health Sciences(ICCMEH-2017), held during 19-20,December 2017,at MIT Manipal,India  
  
Anisha P Rodrigues,**Dr. Niranjan N Chiplunkar**,Archana Rao , “Real Time Twitter data Analysis using Hadoop Ecosystem” ,4<sup>TH</sup> International Conference Computational Methods in Engineering and Health Sciences(ICCMEH-2017),held during 19-20, December 2017, at MIT Manipal,India
13. Venugopala P. S, Dr. H.Sarojadevi, **Dr. Niranjan.N. Chiplunkar**, An Approach to Embed Image in Video as Watermark Using a Mobile Device, **Elsevier Journal of Sustainable Computing Informatics and Systems**. ISSN: 2210-5379. Submitted on 3rd Feb 2017, first revision submitted on 6<sup>th</sup> April 2017, published on 17<sup>th</sup> June 2016. (<https://doi.org/10.1016/j.suscom.2017.06.003>)
14. Srinivas Pai, **Niranjan Chiplunkar**, Srinivas Rao and Subrahmanya Bhat “Effective use of information and communication technology in enhancing teaching-learning outcomes: Some thoughts” Proceedings of 3rd **International Conference** on transformation in engineering education, ICTIEE 2016, COEP, Pune 8<sup>th</sup> and 12<sup>th</sup> Jan, 2016 and also published in Journal of Engineering Education Transformations

(JEET), 2015, ISSN 2349-2473, eISSN 2394-1707 Vol 30, No.1, July 2016, pp 30-38.

15. Anisha P Rodrigues, **Niranjan N. Chiplunkar**, Anujna Rao “Sentiment Analysis of Social Media Data using Hadoop Framework: A Survey” published in IJCA(International Journal of Computer Applications) ”,Volume 151 – No.6, October 2016
16. Venugopala P. S, Ankitha.A. Nayak, Dr. H.Sarojadevi, **Dr.Niranjan.N. Chiplunkar.**, Video Watermarking for Android Mobile Device, Proceedings of the 10th INDIACom; INDIACom-2016; IEEE Conference ID: 37465 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16<sup>th</sup> - 18<sup>th</sup> March, 2016, Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA) pp 3554 – 3560
17. Venugopala P. S, Shravya Jain, Dr. H.Sarojadevi, **Dr.Niranjan.N. Chiplunkar.**, Study of Possible Attacks on Image and Video Watermark, Proceedings of the 10<sup>th</sup> INDIACom; INDIACom-2016, 3<sup>rd</sup> 2016 International Conference on “Computing for Sustainable Global Development”, 16<sup>th</sup> – 18<sup>th</sup> March, 2016, Bharati Vidyapeeth’s Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA) pp 3505 - 3510
18. Venugopala P. S, Dr. H.Sarojadevi, **Dr.Niranjan.N. Chiplunkar**, Savitha Kamath, An Approach for Bitstream Video Watermarking on Mobile Device, IEEE International conference on Signal processing, Communication power and Embedded system (SCOPE-2016), held at Centurion University, Odissa, India from 3<sup>rd</sup> – 5<sup>th</sup> October 2016
19. Anisha P Rodrigues, **Dr. Niranjan N Chiplunkar** “Mining Online Product Reviews and Extracting Product features using Unsupervised method”, 13<sup>th</sup> International IEEE India conference INDICON-2016 organized by IEEE india chapter at IISc Bangalore during 16-18 December 2016, DOI:10.1109/INDICON.2016.7839054,ISBN Information: Electronic ISBN: 978-1-

5090-3646-2 ,Print on Demand(PoD) ISBN: 978-1-5090-3647-9 Electronic ISSN:  
2325-9418

20. Sumathi, **Dr. Niranjan N Chiplunkar**, “Populating Parameters of Web Services by Automatic Composition Using Search Precision and WSDL Weight Matrix”, IJCSE, 1742-7193, InderScience Publishers – Scopus indexed, (in press:Accepted on July 2016).
21. Durga Prasad, **Niranjan N.Chiplunkar**, K. Prabhakar Nayak, "*Performance Analysis of the Physical and Medium Access Control Layer Parameters with Effect of Varying Transmission Power using IEEE 802.15.4 Standard for Wireless Body Sensor Network*", 6th International Conference On Advances In Computing & Communications, ICACC 2016, held on 6-8 September 2016, at Cochin, India, available at Elsevier’s Science Direct Procedia of Computer Science, pp. 639 – 646
22. Prashant G Desai, Sarojadevi, , **Niranjan N Chiplunkar** “A Study of Natural Language Processing Based Algorithms for Text Summarization”, Proceedings of International Journal of Innovative Research in Science, Engineering and Technology, ISSN : 2347-6710, Vol.5, Issue-9, May 2016, pp 304-308
23. Sanju V, **Niranjan Chiplunkar**, “RiCoBiT - Ring Connected Binary Tree : A Structured And Scalable Architecture For Network On Chip Based Systems : An Exclusive Summary”, International Conference on Data Engineering and Communication Technology-ICDECT, Pune, March 10 – 11 2016 (Indexed In Springer)
24. Dr. Sarojadevi H., Dr.D.K.Sreekantha, **Dr.Niranjan N.Chiplunkar** “A Study of Computing Techniques in Agricultural and Food Sector” **International Journal of Engineering Research & Technology (IJERT)** ISSN:2278-0181, ICESMART-2015 Conference Proceedings, Volume 3, Issue 19, Published by www.ijert.org.
25. Dr.Sanju, Dr.Niranjan Chiplunkar “RiCoBiT :Ring Connected Binary Tree:A structured and Scalable architecture for Network on Chip Based System”, 2015 **International Conference** on computing and network communication (CoCoNet 15), Dec. 16-19 2015, Trivandrum India, 978-1-4673-7308-1/15 IEEE 2015

26. Dr.Sanju, **Dr.Niranjan Chiplunkar** “Design and implementation of Mesh and torus for network on chip based systems”, Proceedings of **International Conference** on Trends in Automation , Communication and Computing Technologies (I-TACT 15), 21<sup>st</sup> and 22<sup>nd</sup> December 2015, Acharya Institute of Technology, Bangalore. 978-1-4673-6666-3/15 IEEE 2015
27. Ankitha.A.Nayak, Venugopala P. S, Dr. H.Sarojadevi, **Dr.Niranjan.N. Chiplunkar.**, An Approach to Improvise Canny Edge Detection using Morphological Filters, International Journal of Computer Applications (0975 – 8887) Volume 116 – No. 9, April 2015 (pp 38-42) DOI:10.5120/20368-2575
28. Venugopala P. S, Ankitha.A.Nayak, Dr. H.Sarojadevi, **Dr.Niranjan.N. Chiplunkar.**, Various challenges in Video Watermarking for Mobile Devices, IEEE International Conference on Information Processing, 16<sup>th</sup> to 19<sup>th</sup> December 2015, Vishwakarma Institute of Technology, Pune. DOI: 10.1109/INFOP.2015.7489388
29. Sanju V., **Niranjan Chiplunkar**, Suresh Mandia, Nancy Jain, Nikita Jaiswal, M.Khalid “Design and Implementation of RiCoBiT: A structured and Scalable Architecture for Network on Chip Based Systems” **International Journal** of computing and digital Systems, ISSN 2210-142X , Vol 4 No. 1 Jan 2015, <http://dx.doi.org/10.12785/ijcds/040107>
30. Sumathi, **Niranjan N Chiplunkar** “Necessity of Dynamic Integration for Web Services”, Paper presented at **International Conference** on Applied and Theoretical Computing and Communication Technology IEEE-2015.
31. Sumathi, Dr. **Niranjan N Chiplunkar** “Dynamic search and selection of Web Services”, **International Conference** on Applied and Theoretical Computing and Communication Technology, TamilNadu, India IEEE-2015.
32. Srinivas Pai, **Niranjan Chiplunkar**, Srinivas Rao, Subramanya Bhat “ Undergraduate students’ research: A case study of their experience and perceptions in an autonomous Institution” eISSN: 2394-1707 , Proceedings of 2<sup>nd</sup> **International**

**Conference** on Transformation in Engineering Education(ICTIEE 215), 5<sup>th</sup> and 8<sup>th</sup> January 2015, BMS College of Engineering Bangalore. PP 395-400

33. Prashant G Desai, Sarojadevi, , **Niranjan N Chiplunkar** “A Template Based Algorithm For Automatic Summarization And Dialogue Management For Text Documents”, Proceedings of International Journal of Research in Engineering and Technology, ISSN : 2321-7308, Vol.4, Issue-11, 2015,pp 334-340
34. Mahesh Kini M, Prashant G Desai, Sarojadevi, , **Niranjan N Chiplunkar** “Text Mining Approach to Classify Technical Research Documents using Naïve Bayes”, Proceedings of International Journal of Advanced Research in Computer and Communication Engineering, ISSN : 2278-1021, Vol.4, Issue-7, 2015, pp 386-391
35. Prashant G Desai, Sarojadevi, , **Niranjan N Chiplunkar** “Rule-Knowledge Based Algorithm for Event Extraction”, Proceedings of International Journal of Advanced Research in Computer and Communication Engineering, ISSN : 2319-5940, Vol.4, Issue-1, 2015, pp 79-85
32. Sanju V, Suresh Mandia, Nancy Jain, Nikita Jaiswal, **Niranjan Chiplunkar**, M Khalid, “DesignAnd Implementation of RiCoBiT: A Structured and Scalable Architecture For Network On Chip Based Systems”, International Journal of Computing and Digital Systems, Vol No 4, Issue No 1, Jan 2015, Pg No 63 - 71
36. Sanju V ,**Niranjan Chiplunkar**, Venkata Krishna, “SMITHA: Scalable Modular Interconnect for Three dimensional High Performance Applications - A New 3D Topology for NoC Based Systems” International Journal Of Information Technology, Vol 7 Issue 13 No1, Jan June 2015 ISSN 0973-5658 ( Impact Factor: .605)
37. Sahana Karanth, Raju K., **Niranjan N Chiplunkar**, “Experimental Evaluation of Effects of Thread Distribution on GPU”, ICETE-15, NMAMIT Nitte, 8-9 May 2015.

38. Karthik Pai B H, Nagesh H R, **Niranjan N Chiplunkar**,”A study of Behavior and Performance Analysis of Wormhole Attack in Mobile Ad-Hoc Networks”,International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE):, ISSN:2320-9801(Online), ISSN:2320-9798(Print), Vol.2, Issue:4, April 2014.
39. Manjunath Kotari, **Niranjan Chiplunkar** and Nagesh H.R. “Implementation of Secure Customized Monitoring Tool for Adaptive Distributive Systems”, **International Conference** on Contemporary Computing and Informatics (IC3I), SJCE Mysuru 2014. 978-1-4799-6629-5/14 pp 562-567
40. Srinivas Pai and **Niranjan Chiplunkar** “ Success story of industry institution collaboration for enhancing teaching learning experience“ Proceedings of **International conference** on transforming engineering education ICTEE 2014, at BVB College of Engineering, Hubli. And **SPRINGER India** pp 95-102 , DOI **10.1007/978-81-322-1931-6-14, 16-18 January 2014.**
41. Manjunath Kotari, Sunil Manohar Dasharathi, **Dr.Niranjan Chiplunkar**, “Implementation of Customized Network Monitoring Tool and Security framework Monitoring System”, **International Journal IJCET** Volume 5, Issue 9, September 2014, pp 37-49
42. Prasanna Kumar, **Niranjan**, Archana R.P. “ Combined operation of secret image fusion, DCT based compression and visual cryptography based encryption” **International Conference** on information and communication Technologies, PESITM, Shimoga, 2014, pp 192-197
43. Shruthi, Prasanna Kumar, Ranjan Kumar, **Niranjan Chiplunkar**” Image security using visual cryptography based on random grid technique and DCT” Proceedings of **International conference** on emerging trends in engineering (ICETE-2014) NMAIT, Nitte 15-17<sup>th</sup> May 2014, pp 86-91

44. Sumathi and **Niranjan chiplunkar** “ Dynamic search and selection of Web services” **IEEE International conference** on advanced communication, control and computing technologies (ICACCCT) 2014, ISBN : 978-1-4799-3914-5. PP 1787-1791
45. Manjunath Kotari, **Dr. Niranjan N.Chiplunkar**, Dr. Nagesh H R, Implementation of Customized Monitoring Tool for Adaptive Distributed Systems, International Journal of Computer Applications(IJCA)-2014:ISSN:0975-8887,pp 20-24
46. Sumathi and **Niranjan** “Discovery of Web services using WSDL” Proceedings of **International conference** on emerging trends in engineering ICETE 2014, NMAMIT, Nitte 15-17<sup>th</sup> May 2014
47. Sanju V. & **Niranjan Chiplunkar**, “Design & implementation of Mesh for Network on Chip Based System”, ERCICA 2014 – **International Conference** Proceedings, Elsevier Publication 2014, ISBN: 9789351072607 pp 405-409
48. Prashant G. Desai, Sarojadevi H., and **Niranjan N. Chiplunkar** , “An NLP Based Approach for Extracting Intelligence from Event Documents”, Current Trends in Technology and Sciences, ISSN:2279-0535, Vol.III(1) , January 2014, pp49-53
49. “Image Security Using Visual Cryptography Based on Random Grid Technique and DCT”, Prasanna Kumar H.R, **Niranjan N.Chiplunkar**, Ranjan Kumar H.S, Shruthi H.R, International Conference on Emerging Trends in Engineering at NMAMIT, Nitte, 15<sup>th</sup> to 17<sup>th</sup> May, 2014, pp:86-91
50. Venugopala P. S, Dr. Sarojadevi H., **Dr. Niranjan N C.**, Vani Bhat, Video Watermarking by Adjusting the Pixel Values and Using Scene Change Detection., The Fifth IEEE International Conference on Signal and Image Processing (ICSIP), pp259-264, Bangalore, 8<sup>th</sup> -10<sup>th</sup> January 2014. DOI 10.1109/ICSIP.2014.47
51. Venugopala P. S., Dr. Sarojadevi H., **Dr. Niranjan N C.**, Savitha G., An Approach for Object Detection in Android Device, The Fifth IEEE International Conference on

Signal and Image Processing (ICSIP), pp 9 - 14, Bangalore, 8<sup>th</sup> -10<sup>th</sup> January 2014.  
DOI 10.1109/ICSIP.2014.6

52. Anupama V., Venugopala P. S., Sarojadevi H., **Niranjan N.C.**, “DCT based Watermarking method in HSV Color Space”, ICETE-2014, NMAMIT, Nitte. ISBN: 978-93-83083-80-0, pp63-65, 15-17 May 2014
53. Vinaya Pinto., Venugopala P. S., Dr. Sarojadevi H., **Dr. Niranjan N C.**, Padmashree G. Design of A DCT Based Watermarking Approach Using RGB Color Channels for an Android Device. Second International Conference on Emerging Research in Computing, Information, Communication and Applications’ (ERCICA-14), Bangalore, Elsevier Publications, pp820-825, 1<sup>st</sup> – 2<sup>nd</sup> August 2014. ISBN: 9789351072607
54. Ankitha. A. Nayak, Venugopala P. S, Dr. H. Sarojadevi, **Dr.Niranjan. N. Chiplunkar.**, A Survey and Comparative Study on Video Watermarking Techniques with Reference to Mobile Devices., Int. Journal of Engineering Research and Applications., Vol. 4, Issue 12( Part 6), December 2014, pp 39-44. ISSN: 2248-9622. Impact factor: 1.69
55. Sanju V, **Niranjan Chiplunkar**, “Design And Implementation Of Mesh For Network on Chip Based System”, *Proc. Second International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA Aug 2014, Bangalore* (Indexed In Elsevier)
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#### **17. Books & Proceedings**

- “*VLSI CAD*” Text book – Niranjan N.Chiplunkar & Manjunath Kothari, PHI Learning New Delhi, **May 2011** (ISBN: 978-81-203-4286-6)
- “*CAD for VLSI*” Text Book- **Niranjan N.Chiplunkar&Manjunath Kothari, NMAMIT Publication, February, 2007** (ISBN : 978-81-7525-820-4)
- Member of Editorial Board of NMAMIT Annual Research Journal (ISSN: 2249-0426)
- Edited “*Proceedings of 32<sup>nd</sup> National Convention of Indian Society for Technical Education*” , B.S.Samaga, **Niranjan N.Chiplunkar**, Dec. 2002
- Edited “Proceedings of International conference & Symposium on Storage Technologies (ICSST)” **Niranjan Chiplunkar**, Mr.Manjunath Kothari, 2008 (ISBN: 978-81-907846-0-3)
- Edited “Proceedings of International conference on Computer Architecture, Networking and Applications (ICCANA)” **Niranjan Chiplunkar**, Dr.Uday Kumar Shenoy , 2011(ISBN: 93-80697-42-2), published by Excel India Publishers, New Delhi

## 18. Research Grants Obtained:

- Intel-FICE academic fund of **Rs.2.00lakh** for setting up “Embedded Application lab. Using Intel ATOM processor” November 2011 . Also 10 Intel ATOM kits have been received costing about Rs. 2 lakhs.
- DST Project titled “Software architecture and programming model to enhance the performance of application on multi-core platform” (DST/TDD/03) for 2 years from Jan 1st 2010 to Dec. 31<sup>st</sup> 2011. Amount sanctioned :**Rs.16.00 lakhs**(As Principal Investigator)
- AICTE-RPS(B) project titled “Study and design of algorithms for VLSI CAD tool development towards applications involving mutually exclusively modules” for 2 years from Dec. 1<sup>st</sup> 2008 to 30<sup>th</sup> November 2010, Amount sanctioned: **Rs.4.6lakhs** (As Co-Principal Investigator)

## 19. Research Interests

Algorithm design for VLSI CAD, Multi core architecture and Program Optimization, Ad-hoc Networks, E-learning, Advanced Microprocessors

## 20. Subjects Taught

Logic Design, Design and Analysis of Algorithms, Finite Automata & formal Languages, Computer Organization & Architecture, Systems Programming, RDBMS, Microprocessors & Peripherals, Principles of Programming Languages, compiler Design, Computer Graphics, VLSI Design, C# Programming & .NET Concepts, Embedded and Real Time Systems, Cryptography and Network Security, MIS, CAD for VLSI, System simulation and Modelling

## 21. Ph.Ds guided (8) /guiding (4)

- Dr.Ashok Kumar - Ph.D.completed- VTU, Belagavi – 2010
- Dr.Yuvaraju – Ph.D.completed – VTU, Belagavi-2012
- Dr.Sanju, -Ph.D. completed -VIT, Vellore- 2015
- Mr.Prasanna Kumar – Ph.D. ongoing- VTU - Guide
- Dr.Manjunath Kotari – Ph.D. Completed – VTU –Guide-2017
- Mr. Durga Prasad – Ph.D. ongoing – Manipal University – Guide

- Dr. Sumathi Pawar – Ph.D. Completed –VTU -Guide 2017
- Ms. Anisha Rodrigues – Ph.D. ongoing –VTU –Guide
- Mr.Raju-Ph.D. ongoing – VTU -Guide
- Dr.Karthik Pai – Ph.D. Completed – Co-guide- 2017
- Dr.Venugopal –Ph.D. Completed –Co-guide-2018
- Dr.Prashanth Desai –Ph.D. Completed-Co-guide-2018

## 22. Miscellaneous

- Developed “Computer Graphics Laboratory” at Manipal Institute Technology, Manipal, India in March 1988
- Reviewer for the Proceedings of IEEE Conference on “VLSI Design” since 2002.
- Chair of Programme Committee, National Conference on “Distributed Computing” NMAMIT, Nitte India, 2004
- Coordinator for *FIVE* ISTE sponsored Short Term Training Programs
- Set up “Data Mining Laboratory” at NMAM Institute of Technology, Nitte during Jan. 2006
- Chair of Organizing Committee , National Conference on “Ubiquitous & Pervasive Computing” , NMAMIT, Nitte, India, 24-25, Jan, 2007
- So far, guided 42 BE level projects and 17 M.Tech. level projects
- President of Rotary Club of Nitte during 2006-07
- Consultant for a Patent Search organization :EntellectLLP.com
- **Applied for an Indian Patent**, based on research work (application no.: 428/CHE/2008)
- **Applied for US Provisional Patent** in April 2010 for the research work on “New Architecture for Network on chip (NoC) systems” (Application Number:61/395,480 dated 14/5/2010)
- Received AICTE travel grant for attending the conference at Shanghai, China
- Was Chairman of BOE (Board of Examination)–Computer Science at Mangalore University during 1997-98. Was member of BOE-Computer Science of Visvesvaraya Technological University ,Belgaum during 2004-05.

- BOS and BOE Chairman of NMAMIT Nitte for Computer Science UG and PG programs under Autonomous Scheme.
- Board of Studies member of Computer Science at MIT, Manipal University, NMIT Bangalore, SDMCE Dharwad, BVBCE Hubli, Bangalore, Dr.AIT Bangalore and St.Aloysius College Mangalore during 2007-08
- Governing Council Member of St.John Engg. College Bangalore, Academic Council Member of Dr.AIT Bangalore from 2013.
- President of Hockey India Udupi from 2014 July
- Program Chair of 2016 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER) Conference, 13-14 August 2016, NITK, Surathkal

### **23. Seminars/conferences /Continuing education programs Attended:**

#### **International:**

- EMC World conference at Las Vegas USA 19-22 May 2008
- Conference on Computer Networking, Bangkok, Thailand, 24<sup>th</sup> April 2010
- Conference on Computer Research and Development , Shanghai, China 10-12 March 2011.

#### **National**

- Ten days Faculty development program at IISc on “Computer Graphics and CAD” during April 1988
- Three days training program on “Software Engineering” at Infosys Bangalore during August 1992. Resource Person :Prof. H.N.Mahabala
- Five days STTP on “Advanced JAVA at PSG, coimbatore during 2001
- Five days STTP on “COM & DCOM” at NITK, Surathkal during November 2005
- Three days TEQIP Workshop on Financial Management at Indian Institute of Financial Management at Faridabad during November 2006
- Five days IUCEE workshop on “Advanced compilation Technique” at Infosys campus Mysore during June 2008. Resource person: Prof. Jack Davidson, from Virginia Tech., USA

- Five days IUCEE workshop on “Advanced Microprocessors” at Infosys campus, Mysore during June 2009. Resource person : Prof. Rafiqzmann, California Polytechnic at Pamola
- Many more one day/two day programs at NMAMIT Nitte, MIT Manipal , NITK surathkal, MSRIT Bangalore and other colleges
- One day Faculty development program on “Predictive Analytics” at Accenture Services Bangalore on 16<sup>th</sup> December 2015

**24. Seminars/Conferences/continuing education programs Organized:**

- AICTE-STTP on “Theory & Practice of CAD for VLSI” – 2-14<sup>th</sup> Sept. 2002
- AICTE-ISTE Winter school on “Object Oriented and visual programming” 17-29<sup>th</sup> Jan 2000
- AICTE-ISTE STTP on “E-learning, XML and Multimedia”- 9-21<sup>st</sup> Feb 2004
- National Conference on “Mobile and Pervasive computing”, 16-17 Sept. 2009
- 22<sup>nd</sup> CSI Karnataka Student Convention- 7<sup>th</sup> Nov. 2008
- National Conference on Ubiquitous computing, in 2006
- National level Workshop on “Device Drivers on Multi platforms” in 2007
- International Conference on “Storage Technologies” 3-4 Dec. 2008
- International conference on “Computer Architecture, Networking and Applications”, Jan 7-8, 2011
- International Conference on “Emerging Trends in Engineering”, May 2012
- Many more one day/two day programs at NMAMIT, Nitte for the teaching/non teaching staff of NMAMIT and other colleges.

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