July 19th, 2017



CURRICULUM VITA OF PABITRA MOHAN KHILAR

ASSISTANT PROFESSOR

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PERSONAL:

Married, one child Citizen of INDIA

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INDIA

Phone: (0661) 2463354 Mobile: 9556228979,

EDUCATION

DEGREE	THESIS TITLE	YEAR	UNIVERSITY
Ph.D.	Algorithms for Fault	2009	IIT
(Distributed Network	Diagnosis in Wireless Adhoc		KHARAGPUR
Fault Diagnosis),	Networks and Distributed		
Course Work:	Embedded Systems		
CGPA = 8.57			
M.Tech	Algorithms for Distributed	1999	NIT
(Comp. Sc. & Engg.),	System Level Diagnosis		ROURKELA
CGPA = 8.3,			
Class Rank: 1/20			
B.Tech	Library Information System	1990	MYSORE
(Comp. Sc. & Engg.),			
(First Class with			
Distinction),			
CGPA = 8.0, Class Rank:			
2/60			

RESEARCH INTEREST

- Vehicular Adhoc Networks, Wireless Sensor Networks & Distributed Embedded Systems
- High Performance Computing, Parallel and Distributed Computing, Cluster and Grid Computing,
- Distributed Fault Tolerance, Dependable Computing,

BRIEF BIOGRAPHY:

Dr. Pabitra Mohan Khilar is currently working as an Assistant Professor in the Department of Computer Science & Engg., at National Institute of Technology, Rourkela. He is the professor in-charge of the Parallel and Distributed Computing Laboratory, Hardware Laboratory, Data Communication Laboratory and VHDL Laboratory NIT. Rourkela. He has involved with at been teaching undergraduate/graduates and research in Distributed Diagnosis, Distributed Fault Tolerance, High-Performance Algorithms, Data Structures, Sensor Fusion, since his joining as a faculty in the Department of Computer Science & Engineering, NIT, Rourkela, India in the year 1999. Prior to his joining at NIT, Rourkela, he had been involved with undergraduate/postgraduate teaching and research in many reputed universities of India. Before his joining to teaching and research profession, he had been involved for developing system/application software and design of hardware equipments in reputed industries of India. He is senior life members of many international and national professional bodies including IEEE, IETE, CSI, IE (I), ISTE, ISCA, OITS and OBA.

He has guided 8 Ph.D students, 2 M.Tech (R) (CSE) students, around 60 M. Tech (CSE), over 100 MCA students and around 200 B.Tech (CSE) students in computer science and engineering, many of whom are faculty at reputed institutions/universities in nationwide or Scientists or Engineers at National Labs/Industries around the world. He is directing more than 5 Ph.D students, 7 M.Tech and 5 B.Tech students in the emerging research fields such as Fault Tolerant Computing, Parallel and Distributed Systems and Distributed Wireless Networks. He has published more than 150 research papers in various highly reputed International and National Journals and Conferences many of which are cited in proceedings of international journals and conferences, and Ph.D thesises of reputed international universities. He is the author of books and book chapters in computer science and engineering which are published by reputed international publishers such as Tata McGrahill, India, Springer and LAP LAMBERT Academic Publishers, Germany, IGI Global Services. He has received Gold Medal from IE (I), IBM

faculty award-2011, Certificate of Recognition from Infosys Ltd, IET Premium Awards 2016 and many awards received from various International conferences and workshops for his technical contributions. He has conducted more than ten faculty development programs/short term courses where the participants are from both India and foreign universities. He has been honored for many invited talks, keynote/chief guest speech and All-India Radio speech by the organizing committee for many international and national conferences/workshops/seminars conducted by reputed institutions and universities in India. He has been assigned as reviewer, session chair, organizing chair, technical committee, international advisory board for many international journals and conferences in India and foreign countries. He has been the examiner for the thesis evaluation of B.Tech (CSE & IT), M.Tech (CSE & IT) and PhD thesis of reputed institutions and universities in India including, BPUT, ANNA University, SATYABAMA, SRI SRI VENKATESWAR UNIVERSITY, JNTU, KIITS, SOA etc.. He has visited the foreign universities such as MIT, Boston, USA, NTU, Singapore and Tribhuban Engineering College, Kathamandu, Nepal.

He was the honorary secretary of IE(I), Rourkela local chapter since August 2011 till November 18th 2012. He is the executive member in management committee of CSI local chapter at Rourkela Steel Plant, Rourkela for the session 2012-2013. He is the faculty advisor for SPIC MACAY since 2011 onwards, and Prof-in-charge of NSS activities since 2008 onwards, Vice President of Film and Music Society during October 2010 to December 2013, Core Committee Member for ISM 2012 and ISM 2013.

He has been as Joint Secretary for the years 2009 and 2010, Secretary for the years 2011, 2012 and 2013 and Vice-president for the years 2014, 2015 and 2016 in the SRI SRI SARBAJANINA DURGA PUJJA committee, NIT CAMPUS, Rourkela.

Countries Visited

United States of America, Singapore & Nepal

R & D/CONSULTANCY PROJECTS

ON GOING

> Designing of Mining Method, Strata Monitoring, from SECL, Chhattisgarh during 2016 to continue

COMPLETED

- ➤ Slicing of Aspect Oriented and Web-Based Applications, from Dept. of Science & Technology, Govt. of India during 2012 to 2016.
- ➤ Main Phase of Developing Suitable Pedagogical Methods for Various Classes, Intellectual Calibers, and Research in E-Learning (for Computer Architecture Course)", from MHRD, New Delhi during 2012-2016.
- ➤ Industrial Live Project on Corporate Portal Management System For IBM, from IE (I), Kolkata during 2011-2012.
- ➤ Pilot Phase of Developing Suitable Pedagogical Methods for Various Classes, Intellectual Calibers, and Research in e-learning: For Computer Architecture Subject, from MHRD, New Delhi during 2009 to 2012.

DETAILS OF EXPERIENCE

- > Assistant Professor (8000 AGP) in the department of CSE, NIT, Rourkela for more than 6 years since 01-07-2011 till date.
- ➤ Assistant Professor (7000 AGP) in the department of CSE, NIT, Rourkela for 5 and half years from 01-01-2006 to 31-06-2011.
- ➤ Lecturer in the department of CSE, NIT, Rourkela more than 6 years from 2-11-99 to 31-12-2005.
- ➤ Assistant Professor (12000-375 in the department of Comp. Sc. and Engg. at Institute of Technical Education and Research (SOA University), Bhubaneswar about 1 year from 18-01-99 to 28-10-99.
- Lecturer (2200-75-4000) in the department of Comp. Sc. and Engg. at Orissa Engineering College, (BPUT University), Bhubaneswar for **6 years** from **26-10-92** to **16-01-99**.

> System Engineer at Eastern Informatics (P) Ltd, Satyanagar, Bhubaneswar for 2 years from 16-10-90 to 21-10-92.

EDITOR-IN-CHIEF/EDITORIAL BOARD MEMBER/SESSION CHAIR/EDITOR/MEMBER IN THE ORGANISING COMMITTEE/REVIEWER OF INTERNATIONAL/NATIONAL JOURNALS/CONFERENCES/WORKSHOPS/PHD THESIS/SYMPOSIUM

> JOURNALS

Sl. No	Name of Journal	Publisher	Position	Remarks
1	International Journal of Parallel and Distributed Computing	Elsevier Science	Reviewer	
2	International Journal of Systems Architecture	Elsevier Science	Reviewer	
3	International Journal of Computer Communications	Elsevier Science	Reviewer	
4	International Journal of Networks and Computer Applications,	Elsevier Science	Reviewer	
5	International Journal of Signal and Imaging Systems Engineering	Inder Science	Reviewer	
6	International Journal of Computing Science & Information Technology	DBLB	Editor-in- Chief	
7	International Journal on Soft Computing, Artificial Intelligence and Applications	AIRCC	Editorial Board Member	
8	International Journal on Web Service Computing (IJWSC),	AIRCC	Editorial Board Member.	
9	The International Journal of Ambient Systems and Applications	AIRCC	Editorial Board Member	
10	International Journal of Computer Applications	DBLB	Editorial Board Member	

> CONFERENCES

Sl. No	Name of Conferences	Publisher	Position	Duration/Place	
1	Indicon-2013	IEEE	Reviewer	IIT, Bombay	
2	International conference on		Reviewer	13-16 Dec 2011,	1
	Information,			Shanghvi-La H Singapore	lotel,
	Communication and Signal			8.1	

	Processing,			
3	International Conference on Intelligent Computing,		(Reviewer)	September 15-18, 2008 Singhai, China.
4	International Conference on Advances in Computer, Communications Technology & Applications		(Member/Rev iewer)	(ACCTA -2010), 03-05 Aug, 2010, C.V.Raman College of Engineering, Bhubaneswar, India
5	International conference on Electronic Systems,	IEEE	(Reviewer)	07-09, Jan, 2010 at NIT, Rourkela, India
6	IEEE Region 10 Colloquium and Third International Conference on Industrial and Information Systems (ICIIS-2008),	IEEE	(Reviewer	8-10 December 2008 IIT, Kharagpur, India).
7	National conference on secured adhoc network (NSAN-2009),		(Reviewer).	during 10 th and 11 th October 2009 Dept. of CSE, CEB, BBSR
8	International Conference on Computing, Communication and Sensor Network		(Editor-in- Chief).	during 29-30 ^{th t} October, 2011, at PIET, Rourkela
9	International Conference on Emerging Trends in Computer, Communication & Nano Technology,		(Member in the National Advisory Board)	25 th to 26 th March 2013, Tamil Nadu, India
10	Second International Conference on Communication, Computing and Security (ICCCS'11),		(Core Committee Member, Reviewer & Session Chair).	08-10, October 2012 Dept. of CSE,NIT, Rourkela, India,
11	9 th International Conference on Distributed Computing and Internet Technology,		(Session Chair)	during 5 th to 8 th Feb. 2013. KIIT University, Bhubaneswar, India
12	2011 International	(ISI		9-10, Dec 2011,

	Conference on Software and	Thomson).		Singapore
	Computer Technology,			
	(ICSCT – 2011)			
13	National conference on Data		(Session	3-4 Sept. 2011
	Mining		Chair)	OEC, Bhubaneswar
14	International conference on		(Session	20-22 August 2011,
	Industrial Applications of		Chair)	Hotel Swasti Premier, Bhubaneswar, India
	Soft Computing,			Bhaoaneswar, mala
15	First International		(Member/Sess	12-14, February 2011
	Conference on		ion Chair)	Dept. of CSE, NIT, Rourkela, India,
	Communication, Computing			
	and Security (ICCCS'11)			
16	Program Committee		Symposium	Dec 2011, KIIT,
	member for Student		Chair	Bhubaneswar
	Symposium in ICDCIT,			

FACULTY/EXECUTIVES WORKSHOPS/SHORT TERM COURSES/SEMINARS ORGANIZED

Sl.	Title	Duration		Place	Positions
No		From	То		
1	TE-QIP Sponsored Short	14/10/2016	15/10/2016	BITs Ranchi	Resource
	Term Course on				Person
	"Network Simulator 2"				
2	TE-QIP Sponsored Short	13/07/2013	17/07/2013	NIT,	Co-ordinator
	Term Course on			Rourkela	
	"Improving Programming				
	Skills in Python"				
3	All India Seminar on	2/11/2012	3/11/2012	RSP	Organizing
	Recent Trends in			Rourkela,	Secretary
	Industrial Hydraulics and			India	
	Lubrication Practice				
4	India Immersion	21-09-2012	30/09/2012	NIT, RKL	Co-
	Programme for students				coordinator
	and faculties of NGEE				
	ANN Polytechnic,				
	Singapore				
	(Cloud Computing and				
	Data Center				

	Management)				
5	All India Seminar on the topic "Appropriate Climate-Responsive Technologies for Inclusive Growth and Sustainable Development" on the occasion of 151st Birth Anniversary of Sir. M.Viswesaray	15/09/2012	15/09/2012	Gopabandhu Auditorium, RSP, Rourkela	Convenor
6	2012 Seminar on Advances of Sensors in Medical Science and Engineering,	25/08/2012	25/08/2012	IE(I) Local Center, NIT Campus, Rourkela	Organizing Secretary
7	5th 2012 National Workshop on Recent Trends in Object- Oriented Software Testing (R-TOOST-2012)	9 June 2012	11th June 2012	NIT, RKL	Co-Convener
8	2012 DST Sponsored SERC School on Advanced Software Engineering Techniques and Their Applications,	4th June 2012	8th June 2012	Dept. of CSE, NIT, Rourkela	Co- cordinator
9	2011 National Workshop on Software Engineering Applications for Computer Networks (SEA-CN'11),	8 Dec 2011,	10 Dec 2011,	Dept. of CSE, NIT, Rourkela	Convener
10	All India Seminar on the topic "Disaster Mitigation 150th Birth Anniversary of Sir. M.Viswesaray	15th September 2011	15th September 2011	Gopabandhu Auditorium, RSP, Rourkela	Convenor
11	Workshop on Embedded Technology and DSP	09-02-2011	09-02-2011	Dept. of CSE, NIT, Rourkela	Co-ordinator
12	All India Seminar on Computing, Communication and Sensor Networks,	30 October, 2010	31 October, 2010	IE(I) Local Center, NIT Campus, Rourkela	Convenor
13	India Immersion Programme for students and faculties of NGEE	15-09-2010	11-10-2010	NIT, RKL	Co- cordinator

	ANN Polytechnic, Singapore IT Outsourcing and data Center Management				
14	Workshop on "Software Testing"	12th April 2010	14th April 2010	NIT, RKL	Co-ordinator
15	Faculty Development Programme on "Real Time Systems"	5th April 2010	11th April 2010	NIT, RKL	Co-ordinator
16	Faculty development Programme on "Discrete Mathematics and Its Applications to Computer Science"	7th Dec 2009	20th Dec 2009	NIT, RKL	Co-ordinator
17	Faculty Development Programme on "System Software"	24th Oct. 2009.	25th Oct. 2009.	GIET, Gunupur	Co-ordinator
18	Seminars for B.Tech and M.Tech students at IIT, Kharagpur	2004	2007	IIT, Kharagpur	Seminar-in- charge

MENTOR FOR MS (IT) STUDENTS/SUPERVISOR FOR SUMMER INTERSHIP/AMIE SEC-B PROJECT/CORDINATOR FOR LABORATORY FACILITIES FOR AMIE EXAM

> Mentor for MS (IT) Student

Sl.	Name	Institute	Project Title	Duration
No.				
1	Miss. Prachi Shukla	BITs	Fault Tolerant and Efficient	August
		PILANI	Distributed Load Balancing	2012 to
			Algorithms	August
				2013

> Supervisor for Summer-internships

Sl. No.	Name	Institute	Project Title	Duration
1	Saurabh	BIT, Durg,	Mobile Adhoc	18 th May 2009 to
	Dubey	Chhatisgarh	Networks	8 th July 2009

2	Bhabani	NIT, Rourkela	Hierarchical State	18 th May 2009 to
	Gautam		Routing	8 th July 2009
3	Chitra Thakur	NIT, Rourkela	Finding Shortest Paths	18 th May 2009 to
			and Analyzing	8 th July 2009
			Characteristics in	
			MANETs	
4	Jayant Kumar	SRM	Design and	21 st May 2010 to
		University,	Implementation of	10 th July 2010
		Chennai	Routing Protocols	
5	Piyush Jha	GITA,	Modeling Computer	21st May 2012 to
		Bhubaneswar	Networks	10th July 2012
6	Yogesh Kumar	CET,	Design of Protocols	18 th May 2017 to
		Bhubaneswar	and Devices Using	30 th June 2017
			Wireless Sensor	
			Networks	
7	Amanpreet	GIFT,	Digitization of Load	15 th May 2017 to
	Kaur Kanvel	Bhubaneswar	Cells	30 th June 2017

> Supervisor for Final Project (AMIE, SEC B)

Sl.	Name	Project Title	Duration
No.			
1	G. Anuradha	Courier Billing System	18-06-2009 to 05-08-2009
	(Memb.No.ST 428407-6)	using .NET	
2	Meena Maharana	Library Automation	30-06-2010 to 05-08-2010
	(Memb. No.ST482090-3)	System using .NET	
3	P. Chandra Sekhar	Transport Management	10-12-2011 to 07-02-2012
	(Memb No.ST414209-3)	System for PXE Lab,	
		DRDO, Chandipur	
4	Sangam Kumar Dehury	E-Governance for	27-11-2012 to 17-02-2013
	Memb. No. T 021602	Corporate Management	
		of Group of Industries	
5	Heena Fatima	Resource Allocation in	Jan 2017 to March 2017

Memb. No. ST649096-5	Cloud Computing	

➤ Laboratory Co-ordinator (AMIE -2012)

Sl.	Name	Branch	Duration
No.			
1	Aswini Kumar Naik	Computer Sc. & Engg.	20-12-2011 to 10-01-2012
2	Mitali Madhusmita	Computer Sc. & Engg.	20-12-2011 to 10-01-2012

PHD THESIS EVALUATED

Thesis Title	University	Month/Year
An Efficient Fault Tolerant Hypercubic P2P Grid	ANNA UNIVERSITY,	Sept 2011
Resource Management System	CHENNAI	
Performance Analysis of Face Recognition Based	JNTU, HYDERABAD	Feb 2012
on Spatial and Transform Domain Techniques		
An Improved Job Scheduling Algorithm for the	ANNA UNIVERSITY,	May 2013
Computational Grid Environment	CHENNAI	

COURSES TAUGHT AT UG/PG LEVEL

COURSES TAUGHT AT UG/PG LEVE	L					
Th	eory					
B.TECH		M.TECH				
Advanced Computer Architecture		Advanced Computer				
Distributed Operating Systems		Architecture				
Computer Organization and Architectur	æ	Advanced Microprocesso				
Microprocessors & Microcontroller		System				
Systems Software		Distributed Operating System				
Computer Graphics		Advanced Operating Systems				
Computer Networks		Computer Networks				
Data Communications		Parallel and Distributed				
Data Communications & Computer Ne	tworks	Systems				
Theory of Computation		Cluster and Grid Computing				
Discrete Mathematics						
Data Structures & Algorithms						
Laboratory/Semina	r & Techni	ical Writing				
B.TECH	M.TE	ГЕСН				
Data Communication Laboratory		Parallel and Distributed Computing				
VHDL Laboratory		Laboratory				
Microprocessor Laboratory		Seminar and Technical Writing				
System Programming Laboratory	Resear	Research Project				

Computing Laboratory	Software Lab Using NS2			
Research Project				

VIDEO LECTURES

- > Systems Software (Jan- June 2017)
- ➤ Data Structures and Algorithms (Jan-June 2017)

LIST OF PUBLICATIONS

INTERNATIONAL JOURNALS (COMMUNICATED)

INTERNATIONAL JOURNALS (PUBLISHED) (54)

- ➤ M Singh, PM Khilar, (2017) Geometric Constraint-Based Range Free Localization Scheme for Wireless Sensor Networks, International Journal of Sensors, Vol. 17, No. 16, August 2017.(IEEE Sensors)
- ➤ M Singh, PM Khilar, (2017) A Range Free Geometric Technique for Localization of Wireless Sensor Network (WSN) Based on Controlled Communication Range, Wireless Personal Communications 94 (3), 1359-1385
- N.Panigrahi and P.M.Khilar (2017) Multi-hop consensus time synchronization algorithm for sparse wireless sensor network: A distributed constraint-based dynamic programming approach, Adhoc Networks, 61, pp. 124-138 (Elsevier)
- ➤ J.Singh, P.M.Khilar and D.P.Mohapatra, (2017) Dynamic Slicing of Distributed Aspect-Oriented Programs: A Context-Sensitive Approach, Vol. 52, May 2017, pp. 71-84. (Elesevier)
- ➤ M.Singh and P.M.Khilar, (2017) Mobile Beacon Based Range Free Localization Method for Wireless Sensor Networks, International Journal of Wireless Networks, Vol. 23, Issue 4, pp. 1285-1300, May 2017, Springer.
- R.R.Swain, T.Dash, P.M.Khilar (2017) An Effective graph-theoretic Approach Towards Simultaneous Detection of Faults and Cuts in Wireless Sensor Networks, International Journal of Communication Systems, Willy Publications, Jan 2017.(Willy)
- ➤ N.Panigrahi and P.M.Khilar (2017) Energy Consumption Analysis of Consensus Time Synchronization Algorithms for Wireless Sensor Networks, International Journal of Wireless Communications, Vol. 2, No. 2 (2017)

➤ M.Singh, S.K. Bhoi and P.M.Khilar (2017) Omnidirectional Radio Propagation Antenna Using Organized Grouping of Monopole Antennas, National Academy Science Letters, Springer, 2017 (Accepted)

- ➤ Jagannath Singh, Subhrakanta Panda, P. M. Khilar & D. P. Mohapatra, A Graph-Based Dynamic Slicing of Distributed Aspect-Oriented Software, ACM SIGSOFT Software Engineering Notes, Volume 41 Number 2, March 2016.pp. 1-8
- ➤ Rakesh Ranjan Swain and Pabitra Mohan Khilar, (2016) Composite Fault Diagnosis in Wireless Sensor Networks Using Neural Networks, WPC, pp 1–42, 2016, (Springer)
- > S.K. Bhoi and P.M.Khilar (2016) VehiHealth: An Emergency Routing Protocol for Vehicular Adhoc Network to support Health Care System, Journal of medical Systems, 40(3), pp. 1-12. (Springer)
- > S.K. Bhoi and P.M.Khilar (2016) A Path Selection Based Routing Protocol for urban vehicular Adhoc Networks Environment, Wireless Networks pp. 1-20 (Springer)
- Meenakshi Panda, P.M.Khilar, Distributed Self Fault Diagnosis Algorithms for Large Scale Wireless Sensor Networks using Modified Three Sigma Edit Test, Adhoc Networks, Elsevier, 25 (2015), 170-184, 2015. (Elsevier)
- ➤ Meenakshi Panda, P.M.Khilar, Distributed Byzantine Fault detection Technique in Wireless Sensor Networks Based on Hypothesis Testing, Computers and Electrical Engineering, Elsevier, 48 (2015), 270-285, 2015. (Elsevier)
- ➤ N.Panigrahi and P.M.Khilar (2015) Optimal consensus-based clock synchronization algorithm in wireless sensor networks by selective averaging, IET Wireless Sensor Systems, vol. 5, no. 3 pp. 166-174,2015. (IET)
- N.Panigrahi and P.M.Khilar (2015) An Evolutionary based topological optimization strategy for consensus-based clock synchronization protocols in wireless sensor network, Swarm and Evolutionary Computation, vol. 22, June 2015, pp. 66-85,2015.
- > S.K. Bhoi and P.M.Khilar (2015), Self Fault Detection based Routing Protocol for Vehicular Adhoc Network in City Environment, Wireless Networks 22(4), pp. 285-305, (Springer)
- > S.K. Bhoi and P.M.Khilar (2015), A road Selection Based Routing Protocol for Vehicular Adhoc Network, Wireless Personal Communications, Springer, 83(4), pp. 2463-2483. (Springer)
- > S.K. Bhoi and P.M.Khilar (2015) RVCloud: A Routing Protocol for Vehicular Adhoc Networks in City Environment Using Cloud Computing, Wireless Networls (Springer), 22(4), pp. 1329-1341. (Springer)

- Meenakshi Panda, P.M.Khilar, Energy Efficient Distributed Fault Identification Algorithms in Wireless Sensor Networks, Journal of Computer Networks and Communications, Hindawi Publisher, 2014, pp. 1-16.
- ➤ N.Panigrahi and P.M.Khilar (2014) Optimal Topological Balance Strategy for performance optimization of consensus-based clock synchronization protocols in wireless sensor networks: a genetic algorithm based approach, IET Wireless Sensor Systems, vol. 4, no. 4 pp. 213-222
- ➤ Jagannath Singh, Durga Prasad Mohapatra, Pabitra Mohan Khilar, Component-Aspect Separation-Based Slicing of Aspect-Oriented Programs, Intelligent Computing, Networking, and Informatics, 2014 931-937
- ➤ **S.K.Bhoi and P.M.Khilar (2014)** SIR: a secure and intelligent routing protocol for vehicular *ad hoc* network, Volume 4, Issue 3, May 2014, p. 185 194 (IET Networks)
- S.K. Bhoi and P.M.Khilar, (2014) IJS: An Intelligent Junction Selection Based Routing Protocol for VANET to Support ITS Services, International Scholarly Research Notices Volume 2014 (2014), Article ID 653131, 14 pages, http://dx.doi.org/10.1155/2014/653131 (Hindawi)
- > S.K. Bhoi and P.M.Khilar (2014), "Vehicular Communication: A Survey", Intl. J. of Networks, IET Networks, 3(3), pp. 204-217(IET)
- A.Mahapatra and P.M.Khilar, "Mobility Adaptive Unequal Cluster-based Routing Protocol in Wireless Sensor Networks", Intl. J. of Sensor Networks, Vol. 14, No. 2, 2013, pp.65-81 (IJSNet), (InderScience)
- ➤ **A.Mahapatra and P.M.Khilar,** Online Distributed Fault Diagnosis in Wireless Sensor Networks, International Journal of Wireless Personal Communication, Vol. 71, Issue 3, August 2013, pp.1931-1960, (**Springer**)
- ➤ **A.Mahapatra and P.M.Khilar,** Detection and Diagnosis of Node Failure in Wireless Sensor Networks: A Multiobjective Optimization Approach, International Journal of Swarm and Evolutionary Computation, May 2013 (Elsevier Science.)
- ➤ Pranesh Das and P.M.Khilar, LBVFT: A Load Balancing Technique for Virtualization and Fault Tolerance in Cloud Computing, International Journal of Computer Application (IJCA), Vol. 69, Issue 28, pp. 14-18, May 2013 (FCS)
- ➤ **A.Mahapatra and P.M.Khilar,** Fault Diagnosis in Wireless Sensor Networks: A Survey, IEEE Communications Surveys and Tutorials, Issue 99, pp. 1-27, April 2013(IEEE)

- > S.K.Mandal and P.M.Khilar, "Efficient Virtual Machine Placement for On-Demand Access to Infrastructure Resources in Cloud Computing", International Journal of Computer Applications, April 2013, Vol. 68, No.12, PP. 6-11.
- ➤ R.Maharana and P.M.Khilar "An Improved Authentication Protocol for Hierarchical Wireless Sensor Networks Using ECC, International Journal of Computer Applications, April 2013, Vol. 67, No.22, PP. 23-30.
- ➤ A. Mahapatra and P. M. Khilar. An Energy-Efficient Distributed Approach for Clustering-Based Fault Detection and Diagnosis in Image Sensor Networks. International Journal of Wireless Sensor Systems, Vol 3, Issue 1, March 2013,pp. 26-36, (IET)
- ➤ M.N.Sahoo and P.M.Khilar, "System level Fault Diagnosis in Fixed Topology Mobile Adhoc Networks", Special Issue of International Journal of Communication Networks and Distributed Systems (IJCNDS), Vol. 10, No.3, PP.216-232, March 2013. (InderScience)
- ➤ Pranesh Das and P.M.Khilar, "A Randomized Searching Algorithm and Its Performance Analysis with Binary Search and Linear Search Algorithms", International Journal of Computer Science and Applications (TIJCSA), Vol. 1, No. 11, January 2013, pp. 11-18.
- ➤ **P.M.Khilar** "Fail Over Clusters A Review", International Journal of Computing Science and Information Technology, Vol.1, No. 1, January 2013, pp. 25-44. **IJCSIT.**

- ➤ **A.Mahapatra and P.M.Khilar,** "On-line Fault Diagnosis of Arbitrary Connected Networks", AET-AES Noida, Delhi, ACEEE International Journal on Network Security. vol. 3, no. 1, pp. 10–13, 2012.
- ➤ **A.Mahapatra and P.M.Khilar,** Mobility Aware Distributed Diagnosis of Mobile Ad Hoc Sensor Networks, International Journal of Networking Science, Vol. 1, Issue 1, October 2012, **Springer**, doi:10.1007/s13119-012-0010-2. (**Springer**)
- Nishi Jadav and P.M.Khilar, "Hierarchically Adaptive Distributed Fault Diagnosis in Mobile Adhoc Networks using Clustering", International Journal of Computer and Information Technology, Vol. 1, Issue. 1 September 2012.
- ➤ **A.Mahapatra and P.M.Khilar,** "Fault Diagnosis in Body Sensor Networks", International Journal of Computer Information Systems and Industrial Management Applications (IJCISIMA), Vol. 5, 2012, pp.252-259. **MIR Labs, USA.**
- ➤ A.Mahapatra and P.M.Khilar, An Adaptive Approach to Discriminate the Persistence of Faults in Wireless Sensor Networks, ISRN International Journal of Sensor Networks, vol.1, 2012, pp. 77 89, 2012.. (Hindawi)

- ➤ **A.Mahapatra and P.M.Khilar,** "Detection of Node Failure in Wireless Image Sensor Networks", International Journal of ISRN Sensor Networks, Vol. 1, 2012 (**Hindawi**)
- ➤ **A.Mahapatra and P.M.Khilar,** SDDP: Scalable Distributed Diagnosis Protocol for Wireless Sensor Networks, Communication in Computer and Information Science, Vol 168, 2011, pp.69-80. (**Springer**)
- ➤ K.Ganesh Reddy and P.M.Khilar, "Routing Misbehavior Detection Using Reaction Challenged Node Technique in MANET", International Journal of Advance in Communication Engineering, Vol. 3, No. 2, July-December 2011, pp.23-28. (ISP)
- ➤ Reena Sahoo and P.M.Khilar, Detecting Malicious Nodes in MANET based on a Co-Operative Approach, IJCA Special Issue on 2nd National Conference – Computing, Communication and Sensor Network (CCSN) (4) 46-51, 2011 (Foundation of Computer Science), New York, USA.
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Securing FSR Protocol Against Data Packet Dropping in Manet	Lap Lambert Academic Publishing (ISBN: 978-3- 8383-5787-4)		First	Graduate	S. K. Senapati
A Job-Grouping Based Scheduling Algorithm for Computational Grids	Lap Lambert Academic Publishing, ISBN 978-3-8473- 0957-4		First	Graduate	A. Mukherjee

BOOK CHAPTERS PUBLISHED (4)

Title	Publisher	Year	Edition	Level	Co-author
A Survey on System Level Diagnosis in Distributed Networks	Tata Mc Grahill	2009	First	Graduate	S. Punyatoya
Distributed Micro-controller-based Actuator Fault Diagnosis in Multi-rate Fly-by-wire System	Tata Mc Grahill	2009	First	Graduate	S. Punyatoya
Scalable Distributed Diagnosis Algorithm for Wireless Sensor Networks	Springer	2011	First	Graduate	A. Mahapatra
Routing Protocols in Mobile Sensor Networks	Springer	2012	First	Graduate	M.Panda
GA : Application to Fault Diagnosis in Distributed Embedded Systems Chapter - 12	IGI Global Publications	2013	First	Graduate	

BOOK CHAPTERS REVIEWED (1)

Title		Book Title	Publisher	Edn	Level
			Year		
Clustering	Based	Global Trends in Knowledge	Springer	1 st	Graduate
Stability	and	Representation and	2013		
Seasonability	Analysis	Computational Intelligence			
for Optimal	Inventory				
Prediction	·				

MEMBERS OF PROFESSIONAL BODIES (13)

Name of professional body: ORISSA BIGYAN ACADEMY, BBSR, ORISSA Membership No:- 1618 Date:- 05-03-2012
 Duration:- Life Membership, Status:- LMOBA

Name of professional body : AIRCC

Membership No:- 128619 Date:- 23-06-2011 Duration:- Life Membership, Status:- LMAIRCC

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 Membership No:- 90578217 Date:- 07-01-2010
 Duration:- Life Membership, Status:- MIEEE
- Name of professional body: ISCA, Kolkata Membership No:- L14200 Date:- 20-03-2009 Duration:- Life Membership, Status:- LMISCA
- Name of professional body: IETE, New Delhi. Membership No:-LM201864 Date:- 02-04-2008 Duration:- Life Membership, Status:- LMIETE.
- Name of professional body: IAENG, Hong Kong, China Membership No:- 100254 Date: 01-10-2007.
 Duration:- Life membership Status:- LMIAENG
- Name of professional body: OITS, Bhubaneswer. Membership No:- L/06/349 Date:- 18-12-2006. Duration:- Life Membership Status:- LMOITS
- Name of professional body: CSI, MUMBAI Membership No:- 00071726 Date:- 21-07-2001 Duration:- Senior Member, Status:- LAMCSI
- Name of professional body: IE (I), Calcutta.

 Membership No:-M/121268/5 Date:-30-03-2001

 Duration:- Life Membership Status:- LMIE
- Name of professional body: OEC, Bhubaneswer.
 Membership No:-LM 762 Date:- 28-01-2001
 Duration:-Life Membership, Status:- LMOEC.
- Name of professional body: ISTE, New Delhi. Membership No:-LM 20354 Date:- 05-04-95. Duration:-Life Membership, Status:- LMISTE.

REFEREES

Prof. (Dr.) SUDIPTA MAHAPATRA, Associate Professor Department of E & ECE, IIT, Kharagpur – 721 302, (WB), INDIA. Phone: (03222) 283560 (O), 283561 (R) Email: sudipta@ece.iitkgp.ernet.in_

Prof. (Dr.) B. MAJHI, Professor

Department of CSE, NIT, Rourkela - 769 008, INDIA

Phone: (0661) 2462355 (O), 2463355 (R)

Email: bmajhi@nitrkl.ac.in

Prof. (Dr.) PALLAPA VENKATARAM, Professor Protocol Engineering and Technology (PET) Unit, Dept. of Electrical Communication Engineering, Indian Institute of Science, Bangalore, 560012, India.

Phone: (+91) – 80-22932282 or 22932747

Fax: (+91) – 80-2360 8150, Email:pallapa@ece.iisc.ernet.in

Prof. (Dr.) S.S.Iyengar, (AAAS Fellow, IEEE Fellow, ACM Fellow) Roy Paul daniels Professor & Chairman, Dept. of Computer Science, Director, Robotics Research Laboratory, 298, coats Hall, Lousiana State University, Boton, Roung LA-70802

Phone: (225) 578-1495 Fax: (225) 578-1465

Email:iyenger@bitcsc.lsu.edu

HARDWARE/SOFTWARE SYSTEMS DESIGN AND DEVELOPMENT

- Established the Parallel and Distributed Computing Lab in the department comprising of one IBM Think Center as Server and three IBM client machines. A total of 8 different machines along with server form a cluster using MPICH and GRIDSIM.
- ➤ Designed, developed and implemented a Microprocessor Based Communication System for INDAL, Hirakud, Sambalpur, Orissa, India.
- > Designed, developed and implemented a project "Distributed Learning Systems"
- > Designed, developed and implemented a project "Transport Management System"
- ➤ Designed, developed and implemented a project "Automatic Courier Billing Systems using .NET technologies as Back End and Visual C++ as front end".
- > Designed, developed and implemented a project "Library Automation System using .NET technologies as back end and Visual basic as front end".

RESOURCE PERSON/INVITED TALKS/ PROFESSIONAL TALKS/ KEYNOTE SPEECH/ CHIEF SPEAKER

2012-2013

- ➤ Delivered a talk in the national seminar on "Wireless Sensor Networks: The Recent Challenges" organized by CVRCE, Bhubaneswar during 13-14th Dec 2013.
- ➤ Delivered a talk on "Dependable Distributed Computing Systems" in the national conferences on "Advances in Computing and Information Technology" during 12th to 13th September 2013 at Chouskey Engineering College, Bilaspur, Chhatisgarh, India.
- ➤ Delivered a talk on "Issues on Distributed Networks" in the AICTE sponsored faculty development program on "Recent Trends in Advanced Computing" conducted by VSSUIT, BURLA, SAMBALPUR during 29th April to 11th May 2013.
- ➤ Delivered a talk on "Wireless Sensor Networks: Application to Medical Science" in Seminar on Advances of Sensors in Medical Science and Engineering on 25th August 2012 at IEI building, Rourkela Local Center, Rourkela, India.
- ➤ Delivered a talk on "Mobile Adhoc Networks" on the national workshop on Mobile Adhoc Networks and Its Current Research Trends at KISD, Bhubaneswar during April 28th to 29th March 2012.
- ➤ Delivered the keynote speech on the topic "Safety Critical Real Time Distributed Systems", in the national conference on "Advanced Computing and Communication Technology", (ACCT 2012) at Chousksey Engineering College, Bilaspur, Chhattish Garh, India on 28th Jan 2012.

- ➤ Visited Singapore to deliver a talk on "Heartbeat Based Error Diagnosis Framework for Distributed Embedded Systems", in 2011 International Conference on Software and Computer Technology, (ICSCT 2011), 9-10, Dec 2011, Singapore.
- ➤ Delivered the keynote address on the topic "Advances in Distributed Computing Systems" in the national conference on "Recent Advances in Science & Technology", at Synergy Institute of Engineering and Technology, Dhenknal, Orissa, India during 30 the Sept., to 1st October 2011.
- ➤ Presented an invited talk on the topic "Issues on Data Mining in Distributed Sensor Network" in the national conference on Data Mining, at OEC, Bhubaneswar during 3-4 Sept. 2011.

- ➤ Delivered an interactive session on the topic wireless sensor network with All-India Radio which was announced in the FM 102.6 channel on 16th August 2011 at 6:10 PM.
- ➤ Presented invited talk on "Distributed Sensor Networks" for "National Seminar on Advances in Sensor and its Networking" on 24th July 2011 organized by IE(I), CSI, and PIET, Rourkela, at IE seminar hall, NIT, Campus, Rourkela, Orissa.
- ➤ Presented invited talk on "Resource Management in Distributed Computing Systems" for "National Seminar on Parallel and Distributed Computing" on 16th July 2011 organized by Department of Computer Science & Engineering, Silicon Institute of Technology, Bhubaneswar, Orissa.
- ➤ Presented invited talk on "Fault Tolerant Computing in Safety Critical Applications" on 29th June 2011, at Dept. of Computer Applications, Utkal University Vani Vihar, Bhubaneswar.
- ➤ Presented invited talk on the theme "Better Life in Rural Communities with ICTs", for "World Telecommunication and Information Society Day" on May 17, 2011, at the Local Center, IE(I), NIT Campus, Rourkela.
- ➤ Presented invited talk on "Research Issues on Pedagogical Methods in Engineering Education" on 13th May 2011, at Gandhi Institute of Technology at Bhubaneswar.
- ➤ Presented invited speech on "Advances in Computer Architecture" during 27th February 2011, at National Institute of Science and Technology, Berhampur, Orissa.
- ➤ Presented keynote speech on "Advances in Computer Science and Information Technology" for "Technocom-2011" during 25th and 26th February 2011 at Al-Ameer College of Engineering and IT, Visakhapatnam, Andhra Pradesh.
- ➤ Presented key note speech on "Issues on Emerging Class of Distributed Systems" in International Conference on Computer Technology, during 3-5th December 2010 organized by C.V. Raman College of Engineering, Bhubaneswar, India
- ➤ Presented invited talk on "Wireless Sensor Networks and its Applications" in all India Seminar on Computing, Communication and Sensor Network organized by IE (Rourkela Chapter) and PIET, Rourkela during 30-31st October 2010, at PIET, Rourkela, India
- ➤ Presented invited talks on "Fault Tolerance Issues in Machine Learning Systems" in AICTE sponsored SDP on "Machine Learning Methodologies and Their Applications" at GIET, Gunupur during 27th April to 11th May 2010.

- ➤ Presented invited talk on "Distributed Networks and Its Applications" in the seminar on "ICT in society" organized by IE, CSI & PIET Rourkela, India on 29th March 2010.
- ➤ Presented invited talks on the topic "Wireless Sensor Network and Its Applications" on 20th February 2010 at GIET, Gunupur, India.
- ➤ Presented invited talk on the topic "Next Generation Computers" at Institution of Engineers, NIT Campus, Rourkela on 11th January 2010.
- ➤ Presented invited talk on "Fault Tolerant Computing" in the UGC sponsored refresher course on Information and Communication Technology Application (ICT) during 15th Dec 2009 to 4th Jan 2010 held at the department of Computer Applications, Utkal University, Bhubaneswar.

- ➤ Delivered invited talk on "Fault Diagnosis in Distributed Systems" in the workshop on Bioinspired Computing and Application (BICA 2009) during 21-22 Dec 2009 at ITER, Siskha O Anusandhan University, Bhubaneswar.
- ➤ Delivered invited talks in the workshop on "Advanced Operating Systems" as a technical resource person organized by Trident Academy of Technology, Bhubaneswar and in collaboration with OITS, Bhubaneswar, NWAOS-2009, during 5th-7th Sept. 2009.
- ➤ Delivered a talk "Software Fault Tolerance" in the AICTE sponsored Staff Development Program on "Advanced Software Engineering Techniques and Their Applications" during 8th to 21st June 2009 organized by dept. of Computer Sc. & Engg., NIT, Rourkela.
- ➤ Delivered speech as chief-speaker in the workshop on **Advanced Operating System & Architecture** on 31st March 2009 organized by department of CSE, Purushotam Institute of Engineering & Technology, Rourkela. Also, delivered an expert lecture on "Computer System Architecture" in the same workshop.
- ➤ Delivered a lecture and conducted a lab session on 11-01-2009 about "**Teaching Skills**" in the workshop on Pedagogy for Engineering Education during 9th 11th Jan 2009, organized by dept. of Electronics and Communication Engineering, NIT, Rourkela 769008
- ➤ Delivered a lecture on "Pedagogy for Engineering Education" in 26th Dec 2008 for the AICTE-MHRD Staff Development Programme on "Image Processing Fundamentals

- and Advances "during 15th 28th Dec 2008, organized by dept. of Comp. Sc. & Engg, NIT, Rourkela 769008.
- ➤ Delivered the course on "Interconnection Networks" in the AICTE-MHRD Staff Development Programme on "Computer Architecture and Design" during 27th Oct − 11th Nov 2008 organised by dept. of Comp. Sc. & Engg., NIT, Rourkela 769008

- ➤ Visited USA during Nov 19-21 2007 for presenting a paper titled "A Fault Diagnosis Algorithm for Wireless Sensor Networks" in the International Conference on Parallel and Distributed Systems, Cambridge, MA, USA.
- ➤ Presented lectures on "Reconfigurable Computing & FPGA Architecture" at the department of EIE, NIT Rourkela in 13th May 2003 as resource person for practical training on VLSI
- ➤ Presented a lecture on "Access to Information: Networking is the Key Technology" at Institute of Engineers (I), Rourkela local Center (NIT CAMPUS) on 17th April 2003.
- > Presented a series of lectures on "Graph Theory and Its Applications" at IBCS, Bhubaneswar (SOA University) during March-April 1999.
- ➤ Presented a lecture on "Computers and Its Application" at Institution of Engineers (I), Bhubaneswar Center during March 1997.
- ➤ Presented a series of lectures on "Computer Applications" at College of Engineering and Technology, (OUAT), Bhubaneswar during years 1995-1997.

PARTICIPATION IN CEPs/ WORKSHOPs/ SEMINARs/SYMPOSIUMs /MEETINGs /BOARD OF STUDIES /WEBINARS

2010-2011

➤ Participated in the paper meeting on 4G LTE Smart Phone Architecture by Dr. Mohit K. Prasad, Sr. Staff Engineer, Qualcomm Inc, San Diego, California, USA, on 23rd Dec 2011, organized by IE(I) Rourkela Local Center, India.

- Participated in IBM On-line Webinar on Cloud Computing on 05-08-2011, 12-08-2011, 25-08-2011
- ➤ Participated in the paper meeting on the topic "Cloud Computing How it is Changing the Professional & Social World", and "Intelligent Power Plant" on 19th Nov. 2010 and 14th February 2011 respectively organized by IE(I), Rourkela Local Center, Rourkela, India.
- ➤ Participated the board of studies meeting for revising syllabus of B.Tech Computer Sc. & Engg and IT, BPUT, Rourkela on 12-11-2010 at Bhubaneswar.
- ➤ Participated in the one-day workshop on "Research & Development Opportunities in Fusion Science and Technology" on 11-10-2010 organized by NIT, Rourkela and IPR, Gandhinagar, India.
- ➤ Participated in IBM On-line Seminar on High Performance Computing and Advanced Operating Systems on 03-09-2010, 07-09-2010, 16-09-2010, 17-09-2010, 24-09-2010, 01-10-2010 and 08-10-2010.
- ➤ Participated in training program on "Statistica for data mining" during 30-31st

 Jan 2010 organized by computer center, NIT, Rourkela.

- ➤ Participated in the workshop on Restructuring of Academic Programmes of NIT, Rourkela in Electrical Sciences organized by Dept. of Electrical Sciences (Computer Science, Electrical and Electronics), NIT, Rourkela during 23rd Oct 2009 to 24th Oct 2009.
- ➤ Participated in the ONE DAY PROFESSOR'S WORKSHOP ON FPGA SYSTEM DESIGN USING ALTERA TOOLS organized by Dept. of

Electronics and Communication Engineering, NIT, Rourkela on 19th September 2009.

- ➤ Participated in the workshop on **Pedagogy for Industry-Institute interaction** "**Insight '09**" conducted by Infosys Center, Bhubaneswar, during 14-15th September 2009.
- ➤ Participated in the MHRD short term course on "**High Performance** Computer Architectures" in the department of Computer Science & Engineering, at IIT, Kharagpur during 11th July to 16th July 2009. [One Week]
- ➤ Member of Board of studies for designing courses of study for 5-year integrated MSc in Computer Science at Rourkela Government College, Rourkela from April 2009.
- ➤ Member in the panel for design of courses of study of 5 years Integrated MCA program for Sambalpur University.
- ➤ Participated in the national workshop on "Mathematical Aspects of Computer Science" during March 14-15, 2009, organized by School of mathematics, Statistics & Computer science, Sambalpur University, Jyotivihar, Burla, Orissa.
- ➤ Participated in the TE-QIP Programme on "Pedagogical Training in Engineering Education" at Engineering Staff College of India, Hyderabad during 13th to 25th Oct 2008. [Two Weeks]
- ➤ Participated in the MHRD short term course on "**Embedded Systems**" in the department of Computer Science & Engineering, at IIT, Kharagpur during 2nd July to 15th July 2008. [**Two Weeks**]

- ➤ Participated in the DST Sponsored national workshop on "Some Recent Research Directions in Graph Theory" in the department of Mathmatics at IIT, Kharagpur, 26-30 May, 2008. [One Week]
- ➤ Participated in the short term course on "Effective Teaching Skills" during 31st JAN to 5th FEB, 2005 at IIT Kharagpur organized by dept. of Humanities & Social Sciences. [One Week]
- ➤ Attended the Faculty Development Program on "Reconfigurable Computing, FPGA design lab and System Hardware Design " organized at the resource center IIT, Bombay, under special manpower Development Project (SMDP) on VLSI Design of related software, sponsored by the dept of Information Technology and conducted at the dept of CSE from 3rd June 2002 to 28th June 2002. [Four Weeks]
- Attended the Faculty Development Program (IEP) on "Advanced Networking-Internet and Intranet" under project SSS IMPACT organized by resource centre Jadavpur University from 19th Nov 2001 to 30th Nov 2001. [Two Weeks]
- > Took Internal Auditors training at NIT, Rourkela from 05-04-2000 to 06-04-2000 and from 28-09-2000 to 29-09-2000 for implementation of ISO-9000.
- Attended workshop on "ISO 9000 Implementation-CUM-Half Yearly Appraisal Workshop" under project SSS-IMPACT at Bangalore from 19-07-2000 to 21-07-2000 sponsored by MIT, New Delhi.
- ➤ Attended workshop on "Yearly Progress Report and Web-Based Education" under project SSS-IMPACT at IISc, Bangalore from 21-12-99 to 24-12-99 sponsored by MIT, New Delhi.

Attended XXXII annual convention from 13th Nov 97 to 16th Nov 97 at

Ahmedabad, Gujrat, sponsored by CSI.

> Attended the winter school on "INSTITUTIONAL PLANNING AND

MANAGEMENT "organized by C.E.T, OUAT, Bhubaneswar from 10th Feb 97

to 15th Feb 97 sponsored by AICTE. [One Week]

> Attended the "ACADEMIC STAFF ORIENTATION COURSES FOR

TECHNICAL TEACHERS" at UTKAL UNIVERSITY, Vanibihar,

Bhubaneswar from 10th October 95 to 30th October 95, sponsored by AICTE,

New Delhi. [Three Weeks]

AWARDS FROM PROFESSIONAL SOCIETIES/ACADEMICS (8)

➤ The IET Networks Premium Award – 2016

Title of the Paper: Vehicular Communication: A Survey

Journal: IET Networks, Vol. 3, Issue 3, 2014, pp. 2014-217.

▶ Best Paper Award – 2011

Title of the Paper: An Improved Protocol for Proxy Based Certification Authority for

MANETs",

Name of Conference: International Conference on Communication Networks and

Security,

Duration/Period: Nov. 13-14, 2011,

Place: Hotel Presidency, Bhubaneswar, India. (IRNet)

▶ Best Paper Award – 2011

Title of the Paper: Detecting Malicious Nodes in MANET Based on a Co-operative

Approach.

Name of Conference: Second All India Seminar on Application of Sensor Networks for Security of Industry,

Duration: 29-30 th October 2011,

Place: PIET, Rourkela, India

➤ IE (I) Project Grant-in Aid Project Award 2011

For the project "Corporate Portal Management System".

> IBM Faculty Award 2011

(For Mentoring Industrial (IBM) Live Projects).

▶ Best Paper Award – 2009

Title of Paper:- ID-NIKD based Security of Temporary Key during Path Key Establishment in Key Pre-Distribution for WSN.

Name of Conference: Fourth Innovative Conference on Embedded Systems, Mobile Communication and Computing,

Duration: 27th – 29th July, 2009

Place: Bangalore, India. Pp. 9-14

➤ Won Gold Medal and Sundeep Mohapatra Memorial award – 2005

Title of Paper:- A Comparative Study Between Customized and FPGA Product Devices – A Review

Name: Technical presentation at, Institution of Engineers, Bhubaneswer in

Duration: February 2005

Organized by: IE(I), Bhubaneswer, Orissa.

➢ Gold Medal and First Prize − 2004

Title of Paper : "A Stability Based Distributed Routing Mechanism for Mobile Ad-hoc Network

Name: Technical presentation at, Institution of Engineers, Bhubaneswer

Duration: 2nd February 2004

Organized By: Orissa Engineering Congress, Bhubaneswer, Orissa.

> 2nd Prize − 2003

Title of Paper:- "Evaluation of Computer Networks in TCP/IP Environment-A Review."

Name: Technical paper presentation at Institute of Engineers, Bhubaneswer

Duration: January 2003

Organized by: Orissa Engineering Congress Bhubaneswer, Orissa.

NO.OF PH.Ds GUIEDED (7)

Sl.	Name of the	Thesis Title/Topic /Status	Duration
No	Student		
1	A. Mohapatra	Fault Diagnosis Algorithms for Wireless	2009-2013
		Sensor Networks (Defence held on 01/10/2013)	
2	M. N. Sahoo	Distributed Fault Diagnosis in Wireless Adhoc	2009-2014
		Networks	
3	M. Panda	Distributed Self Fault Diagnosis in Wireless Sensor	2010-2015
		Networks Using Statistical Methods	
4	N, Panigrahi	Clock Synchronization in Distributed Computing	2012-2016
		Systems	
5	J. Singh	Program Slicing of Aspect Oriented Systems	2012-2016
6	M. Singh	Geometric Constraint Based Range Free	2013-2017
		Localization Scheme For Wireless Sensor Networks	
		(Defence Date: 25/04/2017)	
7	Saurabh K. Bhoi	Path Selection Based Routing Protocols for Urban	2013-2017
		Vehicular Adhoc Networks (Defence Date:	
		01/06/2017)	

NO. OF PH.Ds GUIEDED (CV RAMAN UNIVR, BILASPUR)(1)

Sl. No	Name of the Student	Thesis Title/Topic /Status	Duration
1	Sudhir M	Performance Evaluation of Clusters of Workstations (Date of Defence: 24/06/2017)	Dec 2013- June 2017

M.TECH (R) COMPLETED (2)

Sl. No	Name of the Student	Thesis Topic	
			Month/ Year
1	Swastisudha	GA-Based Fault Diagnosis Algorithm for	May
	Punyatoya	Distributed Systems	2012
2	Yostna	Fault Tolerant and Energy Aware	April
	Jaiswal	Geographic Routing Algorithms for	2013
		MANETS	

MASTERS THESIS COMPLETED (48)

Sl.	Name of the	Thesis Title/Topic	
No	Student		Year
1	J.Kakadia	Uniformely Distributed Load Balancing and	
		Bandwidth Delay Service Broker Policy in Cloud	
		Computing	
2	A. Katiyar	Analysis and Design of MAC protocols in Wireless	2015
		Sensor Networks	2017
3	S. S. Khatua	Performance Evaluation of Secured Patiant	
		Monitoring System in Health Care Systems	
4	C. B. Riyani	Performance Evaluation of Task Scheduling in Cloud	
		Based on Load Balancing and Ant Colony	
		Optimization	
5	Swarupa Pattanaik	Energy Optimization in Data Centers of Cloud	2016
		Systems	
6	Ansari, Toseef	Modified Scheduling Service Workflow in Hybrid	
	Ahmed	Cloud.	
7	Behera, Pratap	Novel Trust Based Access Control Model for	
	Kumar	Cloud Environment	
8	Bahadure, Sushant	Securing Mobile Ad Hoc Networks Against	
	R	Packet Dropping Attack.	
9	Koshy, Rohan	Automatic Migration of Data to NoSQL	
		Databases Using Service Oriented Architecture.	
10	Krishna, Varri	Performance Evaluation of Scheduling	
	Murali	Algorithms for Real Time Cloud Computing	
		Systems.	
11	Sahu, Bandita	EESCDE: An Energy Efficient SNR-Based	
		Clustering With Data Encryption.	
12	ASTHA MISHRA	Data Privacy in Cloud	
13	NIPUN MADAN	Cloud Computing]
14	MANISH KUMAR	Authentication in Cloud	
15	ABHISEK SINGH	Distributed Computing	
16	PRIYESH	WSN	
	MANJAPARA		

SAMEER KIIMAD	On-Demand Heuristic for a Class of Independent		
MANDAL	Tasks in Computational Grids		
PRANESH DAS	Virtualization and Fault Tolerance in Cloud		
(Faculty at NIT,	Computing		
	Routing Protocol for VAINET using Guarding Nodes		
	An Improved User Authentication Protocol for		
MAHARANA			
	Curve Cryptography		
SANJAY KUMAR	Efficient Scheduling Heuristics for Independent	2013	
PANDA	Tasks in Computational Grids		
Ph.D Scholar at ISM			
Dhanbad		1	
	in Computational Grids		
,	Improved Load Polonoing Technique for Wireless		
	1		
_	Sensor Networks Using Division Load Theory		
Sukesh Babu V.S	Fault Tolerant Clock Synchronization in Distributed		
	Systems		
Sunil Kumar Gouda	Load Balancing in Homogeneous Broadcast	2012	
•	Distributed Systems and Grid Networks		
		_	
V. Harish Kumar			
Madhu Dalrach V			
Madilu Rakesii 1			
Arijit Mukhariee			
· ·	,		
IBM			
Rabi Tejja Reddy	Algorithm based on Booth's Encoding Pattern for		
AMDOCS	Fast Scalar Point Multiplication in ECC for Wireless		
	Sensor Networks	2011	
	-	emand	
_	Distance Vector Kouting Protocol		
	History and its affect Astronomy Distributed Freely Discourse		
Nishi Yaday	Hierarchically Adaptive Distribited Ballit Diagnosis		
Nishi Yadav (Topper, Computer	Hierarchically Adaptive Distributed Fault Diagnosis in Mobile Ad hoc Networks using Clustering		
Nishi Yadav (Topper, Computer Science	in Mobile Ad hoc Networks using Clustering		
(Topper, Computer			
	PRANESH DAS (Faculty at NIT, Nagland) IMRAN HOSSAIN FARUK SOURAV KUMAR BHOI PhD Scholar at NIT, Rourkela RAKESH MAHARANA SANJAY KUMAR PANDA Ph.D Scholar at ISM Dhanbad PRATIK AGRAWAL (At IBM) Neethu Krishna Faculty at NIT, Calicut Sukesh Babu V.S Sunil Kumar Gouda (Faculty at NIT,Allahabad) V. Harish Kumar Madhu Rakesh Y Arijit Mukharjee System Engineer, IBM Rabi Tejja Reddy AMDOCS Preeti Sachen Software Engineer HCL, Noida, New Delhi	MANDAL PRANESH DAS (Faculty at NIT, Nagland) IMRAN HOSSAIN FARUK SOURAV KUMAR BHOI PhD Scholar at NIT, Rourkela RAKESH MAHARANA SANJAY KUMAR PANDA Ph.D Scholar at ISM Dhanbad PRATIK AGRAWAL (At IBM) Neethu Krishna Faculty at NIT, Calicut Sukesh Babu V.S Suil Kumar Gouda (Faculty at NIT, Calicut Sukesh Babu V.S Sunil Kumar Gouda (Faculty at NIT, Calicut Sukesh Kumar Madhu Rakesh Y Aligin Makarjee System Engineer, IBM RABIORAL RABIOR RABIOR RABIOR RABIOR RABIOR RABIOR A Novel Approach of Secure Routing Protocol for Mobile Ad Hoc Networks Secure and Greedy Intersection Based Routing Protocol for VANET using Guarding Nodes Routing Protocol for VANET using Great Great Vanet Scheduling Heuristics for Independent Tasks in Computational Grids Improved Load Balancing Technique for Wireless Sensor Networks Using Divisible Load Theory Sensor Networks Secure Load Balancing in Homogeneous Broadcast Distributed Systems and Grid Networks Independent Tasks Improved Load Balancing in Grid Computing Environment Madhu Rakesh Y Localized Fault Detection Scheme for Wireless Sensor Networks Arijit Mukharjee System Engineer, IBM Rabi Tejja Reddy Algorithm based on Booth's Encoding Pattern for Fast Scalar Point Multiplication in ECC for Wireless Sensor Networks Preeti Sachen Software Engineer HCL, Noida, New Delhi	

	University Dilassus		
	University, Bilaspur,		
33	Chhatishgarh Nilam Benerjee	Algorithms for Intermittent Fault Diagnosis in	
	$(2^{nd} Topper,$	Wireless Sensor Networks using Clustering	2010
	Computer Science		2010
	Specialization),		
	Faculty at		
	Chouksey Engineering College,		
	Bilaspur,		
	Chhatisgarh.		
34	M.Sunil Kumar	Energy Efficient Location Aware End-to-end Data	
	Reddy	Security Scheme for Wireless Sensor Networks	
	(Faculty at		
	Rajmundry,AP)		
35	K. Ganesh Reddy	Malicious Node Misbehavior Detection and Reaction]
	(Ph.D scholar at	using Challenged Node Technique in MANET	
	NIT,Surathkal)		
36	Santi Kumari Behera	Fault Diagnosis in Wireless Sensor Networks Using	
	(Faculty at NIT,	Timed Automata	
	Silchar)		
37	Manmath Narayan	A Novel Approach for Survivability of IEEE 802.11	
	Sahoo	WLAN Against Access Point Failure	
	(Topper, Computer		
	Science		
	Specialization),		
	Faculty at NIT, Rourkela.		
38	Sunil Kumar Senapati	Securing Fisheye State Routing Algorithm Against	
30	(Topper, Information	Data Packet Dropping By Malicious Nodes in	
	Security Security	MANET	
	Specialization),		2009
	System Engineer,		
	GRIDCO,		
	Bhubaneswar,		
	Orissa,India]
39	Subhasish Dhal	Application of Transversal Design and Secure Path	
	(Faculty at IIIT,	Key Establishment for Key Pre-Distribution in WSN	
	Gauhati)		
40	P.Lakshiraman	Secured VRP for MANETs in Presence of Malicious	
	(Faculty, Central	Nodes	
	University,		
11	Hyderabad)	Involved the of Const. M. 11. C.	
41	Deepak	Implementation of a Generic Modular Cryptosystem	
42	Krishnamurthy	for the RSA on Recinfigurable Hardware	
42	J. K. Singh	Algorithms for Fault Detection in Wireless Adhoc	
	(System Engineer, Samsung Electronics,	Networks and GRID Systems	2008
	Samsung Electronics,		2006

	Noida, New Delhi)		
43	Rupak Chakraborthy	An Energy efficient Routing Protocol with Device Awareness for Heterogeneous Mobile Ad Hoc Networks	
44	Debendra Kumar Behera	Study of Algorithms For Adaptive Distributed System-Level Diagnosis	2004
45	Flora Nanda (Faculty at VSSUT, Orissa)	Simulation Study on Software Router Architecture	
46	Sanjit Kumar Barik (Faculty, Orissa School of Mining Engineering)	Evaluating the Performance of Distributed Information Retrieval System	
47	Ajay kumar	A Stability Based Distributed Routing Mechanism for Mobile Ad-hoc Network	
48	K.Venkata Subbaiah (Associate Professor, Dept. of CSE, K.S.R.M College of Engineering, Kadapa, AP.)	Evaluation of Flow Control in Group Communication	2002

MASTERS THESIS COMPLETED (BPUT, SU & BU)(5)

Sl. No	Name of the Student	Thesis Topic	Institute/University	
				Year
1	Illa Swain	Weighted Clustering	CET,	
	(Faculty at OEC,	in Wireless Adhoc	Bhubaneswar/BPUT	
	Bhubaneswar, Orissa)	Networks		2010
2	Reena Sahoo	Malicious Node	Sambalpur University,	
	(Faculty at Black	detection in MANET	Jyoti Vihar, Sambalpur,	
	Diamond Institute,		Orissa	
	Jharsuguda,			
	Sundargarha)			
3	Sefali Das	Algorithms for Fault	Sambalpur University,	
	(Faculty at DAMITs,	Detection in Wireless	Jyoti Vihar, Sambalpur,	2011
	Rourkela)	Sensor Networks	Orissa	
		using Clustering		
4	Saqlin Ahamad Khan	Efficient Routing	Berhampur University	
	(Faculty at RIT,	Algorithms for WSN	Berhampur, Orissa	
	Kalunga, Rourkela)			
5	Shivani Patri	Hierarchical Trust	Sambalpur University,	
		Based Access Control	Jyoti Vihar, Sambalpur,	2017
		in Cloud	Orissa Sambalpur	

B.TECH THESIS COMPLETED (42)

Sl. No	Name of the Student	Thesis Topic	Year
1	Bikash Kumar Gupta	Fault Tolerance in Distributed Systems	
2	Sangram Jyoti Bal		
3	Amit Vishal Mundu	The Application of System Level Diagnosis	
4	Summet Gupta	Approaches for Fault Detection and Its Implementation in Ad-hoc Networks	2010
5	Soumitri Mohanty	Load balancing in Wireless Sensor Network	
6	Asit Arunav Mohapatra	Using Divisible Load Theory	
7	Shakti Pinaki Mishra		
8	Jagnyashini Debadarshini	Communication Aware Load balancing for Parrallel Applications in Cluster	
9 10	Ram Prasad Padhy Goutam Prasad Rao	Load Balancing in Cloud Computing Systems	
11	Argha Sen	Load Balancing using MPI	1
12	Swagat Mishra (Departmental Nominee for institute's best project award)	Resource Allocation Optimization Through Task based Scheduling Algorithms in Distributed Real Time Embedded Systems	2011
13	Anupam Verma	Time Constrained Fault Tolerance and Management framework for k-connected distributed wireless sensor networks based on composite event detection	
14	A Guru Bala Krishna		
	Naidu	Corporate Portal Management Systems	
15	Ankit Gupta		
16	Bhargav Nilgiri		
17	Lipsa Sahoo	Design and Implementation of IEEE 754 Floating	2012
18	Ruby Dev	Point Standard	
19	Nitesh Kumar	Routing Protocol for Computer Networks	
20	Govind Upmam	Identifying Persistent Faults in Distributed	
21	Sunil Oram	Systems	
22	Amit Gupta	Fault Diagnosis Algorithms in Distributed	
23	Rigveda	Networks	2013
24	Shasikant Gupta	Resource Allocation Policy for Virtualized	
25	Bojja Reddy	Network Interfaces	
26	Ankita Jena	Improvement in ECC Digital Signature	
27	Saraswati Mishra	Fault Tolerance in Mobile Wireless Networks	
28	Preeti Swapna Tirkey		2014
29	Durbar Show	Improved Cloud Architecture	
30	Pankaj malviya	<u> </u>	
31	Shivraju Kefranath	Node Replication Attack in MWSN	
31	Manas	Node Replication Attack in MWSN	

	Mahapatra			
32	Kumar, Alok	Target Simulator for Gun Fire Control System.		
33	Mahapatra,	Analysis of WDM and Wavelength		
	Soumya Prakash	Assignment in Optical Networks.		
34	Sundaram Mishra	Improved On-demand Routing Protocol in	2015	
35	Singh, Abhishek	Mobile Ad-hoc Network.		
36	Sharifi, Abdul	Efficient Client-Server Assignment for		
	Hadi	Internet Distributed Systems		
37	Tagirisa,	Improving Performance of Job		
	Siddhardha	Scheduling Algorithms in Cloud		
		Computing Environment.		
38	Sachidananda	Development of Wireless Sensor Networks		
	Moharana	for Object Detection		
			2016	
39	Jyoti Swain	Localization in Wireless Sensor Networks		
		Using KNN and Genetic Algorithm		
40	Sarini Nanda	Range Based Localization in Wireless		
		Sensor Networks Using Least Squares		
		and Statistical Methods		
41	Abinash Sahoo	Range Free Localization in Wireless		
		Sensor Networks Using Trilateration	2017	
42	Jyotirmaya	Environmental Monitoring System Using		
	Ghosh	Unmanned Surface Vehicle		

PH.D GUIEDANCE UNDER PROGRESS (3)

Sl.	Name of the	Thesis Title/Topic /Status	Year of
No	Student		Joining
1	Rakesh Ranjan	Fault Diagnosis in Wireless Sensor Networks	2014
	Swain	(Progress Seminar Completed)	
2	S.Mohapatra	Fault Diagnosis in Wireless Sensor Networks	2014
	_	(Progress Seminar Completed)	
3	Swati Lanka	Congestion Detection and Avoidance in Intelligent	2017

Transport System	

PH.D GUIEDANCE UNDER PROGRESS (3)

Sl. No	Name of the	Thesis Topic	Name of University	Year of
	Student			Joining
1	Reena Sahoo	Security in MANET	BPUT,	2012
		(Registration	ROURKELA	
		Completed)		
2	Mahendra Gaurasia	Cloud	(KIITS,	2013
		Computing	BHUBANESWAR)(1)	
3	Rasmi Patra	Wireless Sensor	SOA, Bhubaneswar	2016
		Networks		

MASTERS THESIS UNDER PROGRESS (6)

Sl. No.	Name of the Student	Thesis Topic	Year &
			Status
1	Tisan Das	Localization in WSN	
2	Deepak Kumar	Fault Tolerance in WSN	2017
3	Shubham	Cloud Computing	
4	Vijaya Chaudhuri	Cloud Computing	Under
5	Abhisek Kesarwani	Cloud Computing	Progress
6	Sugyani Mohapatra	Analysis of EEG Signlas during Yoga Nidra	2017

B.TECH THESIS UNDER PROGRESS (6)

Sl. No	Name of the Student	Thesis Topic	Year & Status
1			
2			Under
3			Progress
4			2015
5	Priyanka Prasad	Sentiment Analysis	2017
6			

OTHER PROFESSIONAL/INSTUTIONAL DEVELOPMENT ATCIVITIES

> MEMBER IN INSTITUTIONAL ACTIVITIES

 Committee Member for Management of places of Worship at NIT Rourkela since January 2011 till date

o NIT CAMPUS SRI SRI SARBAJANINA DURGA PUJA COMMITEE

- VP Vice President for Durga Puja Committee for the years since 2014 till 2016
- Secretary for Durga Puja Committee for the years 2011 till 2013
- Joint Secretary for Durga Puja Committee for the years 2009 till
 2010

> NSS ACTIVITIES

- o Prof-in-charge of NSS since 01-Jul-2017 to Continue
- o **Co-Prof-in-charge of NSS since** 28-08-2008 to 28-07-2015.
- **▶ Prof-in-charge CCMT 2015 & 2016**
- ➤ Prof-in-charge CCB-2012 & CSAB-2013
- ➤ M.Tech Admission for the year 2008 and 2009.
- **Book Bank, NIT, Rourkela from 09/01/2003 to 27/07/2004.**
- > Advisor for CERVER Club, at NIT, Rourkela during July 2008 to August 2012.
- ➤ Departmental representative for Staff club from July 2007 till 2015
 - **O DSC Chairmans: No. of Ph.D Students = 5**
 - O DSC/MSC Members: No of Ph.D Students = 30 &

No. of M.Tech (R) Students = 30

NIT ROURKELA CONVOCATION

- Member of the Committee for RECEPTION, HOSPITALITY, INVITATION & ACCOMODATION, in:
 - 6th Convocation on 17.01.2009,
 - 7th Convocation on 16-01-2010
 - 8th Convocation on 15-01-2011.

INFOFIESTA-2004

- Member in the National Level Technical Symposium on 10th and 11th of January 2004 and acted as judges for events such as technical paper presentations and Quiz Test.
- TECHNICAL and EXTRA CURRICULAR EXCELLENCE AWARD

- Member in the Class of Award for Extra Curricular Excellence for the year 2012
- Member in the Committee for nominating from the dept. for best
 B.Tech Project from the year 2007-2012
- Organizing Committee Member in INSPIRE SCIENCE CAMP-2013, sponsored by DST, GOI

> FACULTY ADVISOR

- o Google Scholar Club from August 2013 till August 2016
- o **SPIC MACAY** since August 2012 till Dec 2013.
 - Performance by Padmashree Viku Vinayakram on 15th August 2013 at BBA.
 - Performance by Padma Bibhusan Hari Prasad Chaurasia on 9th March 2013 at BBA.
 - Inauguration of SPIC MACAY Club by Padmashree Kiran Seth on 12th Feb 2013 at BBA.

> VICE PRESIDENT FILM & MUSIC SOCIETY IN SAC

- Vice President for Film & Musical Society of the SAC, NIT, Rourkela from 02-11-2010 to 19-12-2013.
- o Member in the Foundation Day Celebration 2011, 2012, 2013
- Inter Hall Competition for DANCE, MUSIC, & SINGING during 4th to 9th Nov. 2012
- Intra Hall Competition for DANCE, MUSIC, & SINGING during October 2012.
- o **Member** in the **Student Election Committee** for 2011 and 2012.
- Organized a stunt show on 10th September 2011 for students, faculties and staffs of NIT, Rourkela.
- Organized Celebrity Nite 2011 and 2012 on March 10th 2011 and March 11th 2012 at Dillip Tirkey Stadium.

OPEN SWIMMING COMPETITION

- Judge for open swimming competition on 17th August 2013
- o RAPHSODY (ORGANIZED BY LEO CLUB, NIT, ROURKELA)

 Judgefor Singing competition among students of different schools in and around Rourkela for 2012 & 2013.

INTERNATIONAL STUDENTS MEET

Member in the Core Committee in ISM – 2011 during March 08-10 2011, ISM-2012 during March 09-11 2012 and ISM – 2013 during 08-10 March 2013 respectively.

NITRUSTAV

- Member in the organizing committee for NITRUSTAV' 2012 held on 3rd to 5th February 2012.
- Judge for cultural fest events (Debate Competition) on 12-03-2010 in NITRUTSAV 2010.
- **Supervisor** for the 43rd Institute day and 20th NITRutsav-2004, at NIT, Rourkela.

o SPORTS-FESTIVAL 2012-2013

- Member in the Guest Co-ordination Committee
- Member in the Web Site Design Committee

INTER NIT SPORTS MEET

Member in the inter NIT Sports meet - 2012

TECH FEST

- Conducted Quiz on Film and Music on 11th Nov. 2012 during TechFest-2012.
- Prof-in-Charge for Hospitality and Transportation in TechFest 2012,
 Innovision-2013.
- Judge for student paper presentation (Comp. Sc & Engg. Dept.) in the annual techno-management fest organized by Technical Society, Students Activity Center, NIT, Rourkela,.
- **CONFLUENCE 2k9** during 6th to 9th February 2009
- CONFLUENCE 2kX during 5th to 8th February 2010,

MULTI-ETHNIC FESTIVAL

Member in the organizing Committee of MEF – 2013 during 28-31st
 October 2013.

NIT ANNUAL ATHLETIC MEET

• Member in official group and Judge of Track Events of:

- 46th Annual Athletic Meet 2007-08, 2nd and 3rd Nov. 2007
- 49th Annual Athletic Meet, 2010-2011, 29th and 30th October 2010
- **50th Annual Athletic** Meet, 2011-2012, 14th and 15th January 2012
- 51st Annual Athletic Meet, 2012-2013, 12th and 13th January 2013

> DEPARMENTAL ACTIVITIES

- o Chairman:
 - Departmental Purchase Committee (DPC) since 2017-
 - DSC Chairmans: No. of Ph.D Students = 5
- Members:
 - Departmental Research Committee (DRC) since 2012-.
 - Departmental academic committee (DAC) from 2009 to 2016.
 - DSC/MSC Members: No of Ph.D/MTech(R) Students (30+30) = 60
- Coordinators:
 - M.Tech & Dual Degree Project Evaluation since 2012
 - Final Year Project B.Tech (Comp. Sc. & Engg.) from 2007 to 2015
- Faculty Advisor
 - **B.Tech (CSE) for 2014-2015 Batch**
 - B.Tech (CSE), for 2008-2009 Batch
- o PIC
 - Departmental Seminars from July 2007 to June 2010.
 - TEQIP since Sept 2009 till date.
 - Laboratory since July 2007
 - Parallel and Distributed Computing Laboratory,
 - Hardware Systems Laboratory
 - Data Communication Laboratory.
 - Development of Course Curriculum for the department from July 2008 to July 2016.
 - M.Tech admission for the year 2008 and 2009.
 - Training and Placement for the Department since July 2007.

- Time Table of the department from 1999 to 2004.
- PIC M.TECH (CSE) (Entrance) EVALUATION
 - Dept. of CSE, NIT, Rourkela
 - Sambalpur University, Jyotivihar, Sambalpur on 08-07-2010.

> VISITING FACULTY

- o KIITS, Bhubaneswar, India
- o VSSUIT, Burla
- o OUAT, BHUBANESWAR
- o IE (I), BHUBANESWAR & ROURKELA
- SAMBALPUR UNIVERSITY, Burla, SAMBALPUR
- o UTKAL UNIVERSITY, Vanivihar, Bhubaneswar
- o BPUT, ROURKELA
 - CET, OEC, CEB, SILICON, KISD, GITA, C V RAMAN Bhubaneswar
 - NIST, Berhampur
 - SYNERGY INSTITUTE, DHENKANAL
 - GIET, Gunupur
 - PIET, PCE, RIMS Rourkela
- o IGNOU, ROURKELA, INDIA
- o SOA UNIVERSITY, Bhubaneswar
 - ITER & IBCS Bhubaneswar, India
- Choskey Engineering College, Bilaspur, Chhattisgarh
- Al-Ammer College of Engineering, Visakhapatnam, AP.
- > EXAMINER/QUESTION SETTER FOR B.TECH (CSE/IT)/M.TECH (CSE/IT)/PHD THESIS/GRAND VIVA/COURSES EVALUATION FOR
 - o IE(I), KOLKATA
 - o SAMBALPUR UNIVERSITY, VSSUIT Burla, Sambalpur
 - o KIITs, UTKAL UNIVERSITY, SOA Bhubaneswar
 - o BITS, Ranchi
 - o ANNA UNIVERSITY, SATYABAMA University, Chennai
 - o JNTU, Hyderabad

- o BPUT, Rourkela
- CSIT, DURG, Chhattisgarh
- o MIZORAM UNIVERSITY, Aizawl, Mizoram
- o CVRAMAN UNIVERSITY, Bilaspur

> OTHER ACTIVITIES

- **Head Computer Center (in-charge)** from 7th to 10th January 2013.
- o **HOD, Comp. Sc. & Engg** (in-charge) from 7/06/2012 to 08/06/2012
- **President SAC** (In-charge) from 3/09/2012 to 5/09/2012 and during DEC 15th to 25th 2012.
- o Introduced **Viswakarma Puja** at IE(I) Local Centre Building 2012,
- O Volunteer for **Golden Jublee Meet** on 25th to 26th December 2010
 - Member in the Canteen Management
 Committee since 02-11-2010.

> POSITIONS IN DIFFERENT PROFESSIONAL SOCIETIES

- Executive Committee Member of local IE (I) Rourkela chapter for the Computer Science & Engineering discipline from October 2010 to 31st August 2011.
- O Honorary Secretary IE (I) Rourkela Local Center from 31st August 2011 to 18th November 2012.
 - Ex-Officio Member of IE(I) Rourkela Local Center since 18th November 2012.
 - Prof-in-charge of AMIE exam Autumn session 2012
 - Organized Engineers day on 15th September 2011 and 2012 at Gopabandhu Auditorium, Rourkela Steel Plant, Rourkela
- Management Committee Member of CSI, Rourkela Local chapter since January 2012.
 - Conducted computer quiz on 25th November 2012 at St. Paul School Rourkela for schools in- and around Rourkela
- Member in Bharat Vikas Parisad for 2011