17 February 2025



CURRICULUM VITA OF PABITRA MOHAN KHILAR

PROFESSOR

Department of Computer Science & Engg., National Institute of Technology, Rourkela – 769008, INDIA

Phone: (91) 0661- 2462354 (Office)

(91) 0661- 2463354 (Residence)

Mobile: 9556228979, 9938951176 Fax: 91-661-2462999, 2472926, 2462022

E-mail: pmkhilar@nitrkl.ac.in, khilarpm@yahoo.com, pmkhilar68@gmail.com, pmkhilar@mynitrcerver.org

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Web Link: www.nitrkl.ac.in

PERSONAL:

Married, one child Citizen of INDIA

HOME ADDRESS:

C-7, NIT CAMPUS, ROURKELA – 769008

INDIA

Phone: (0661) 2463354 Mobile: 9556228979,

EDUCATION

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

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 Professor in the Department of Computer Science & Engg., at National Institute of Technology, Rourkela. He is the professor in-charge of the Wireless Sensor Network Laboratory, Hardware Laboratory, and Data Communication Laboratory at NIT, Rourkela. He has been involved with 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 15 Ph.D students, 2 M.Tech (R) (CSE) students, around 90 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 10 Ph.D students, 5 M.Tech students 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 200 research papers in various highly reputed International SCI/SCOPUS/WEB of Science Journals published by IEEE, Elsevier Science, Springer, Inderscience, Willy, IJCA, IASTD and so and International Conferences many of which are cited in proceedings of on. 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 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, Amdocs Innovative Mentor Awards 2018 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 member, 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, Penang, Malyasia 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 from 2011 to 2013, Nodal Officer (Ek-Bharat Shrestha Bharat, Department of Higher Education, GOI, Prof-in-charge of NSS activities from 2008 to 2017, 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, 2016 and 2017 in the SRI SRI SARBAJANINA DURGA PUJJA committee, NIT CAMPUS, Rourkela.

Countries Visited

United States of America (MIT CAMPUS, BOSTON), Singapore (NTU), Malaysia (KULALMPUR & PENANG) & Nepal

R & D/CONSULTANCY PROJECTS

ON GOING

- > Development of Intelligent Drone Systems for Agricultural Environment from TEQIP=II sponsored seed grant.
- > 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

- ➤ **Professor** (Level 14A) in the department of CSE, NIT Rourkela for 2 years since 29-03-2023 till date.
- Associate Professor (Level 13, A2) in the department of CSE, NIT Rourkela for more than 2 and half years since 02-02-2018 to 28-03-2023.
- ➤ Assistant Professor (Level 12) in the department of CSE, NIT Rourkela for 2 years and one month from 01-01-2016 to 01-02-2018
- ➤ Assistant Professor (8000 AGP) in the department of CSE, NIT, Rourkela for around 4 years and 4 months from 01-07-2011 to 31-12-2015.
- ➤ 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 (8000-275-13500) in the department of CSE, NIT, Rourkela more than 6 years from 2-11-99 to 31-12-2005.
- ➤ Assistant Professor (12000-375-18000) 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	
11	International Journal of Adhoc Networks	Elsevier Science	Reviewer	Outstanding Reviewer Award
12	International Journal of Vehicular Communications	Elsevier	Reviewer	
13	IEEE TRANSACTIONs on Industrial Informatics	IEEE	Reviewer	
14	International Journal of Engineering,	Hindawi	Reviewer	
15	International Journal of Sensors	Hindawi	Reviewer	

> 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,

and Signal Processing Reviewer September 15-18, 2008 International Conference on Intelligent Computer, Communications Technology & Applications Technology & Applications International Conference on Electronic Systems, Technology & Applications Electronic Systems, Technology & Applications International Conference on Electronic Systems, Technology & Applications Technology & Applications International Conference on Industrial and Information Systems (ICIIS-2008), Technology, (ICISC-2011) International Conference on Computing, Communication & Advisory & National Conference on Emerging Trends in Computer, Communication & Advisory & National Conference on Emerging Trends in Computer, Communication & Advisory & National Conference on Communication, Computing and Second International Conference on Emerging Trends in Computer, Communication & National Conference on Communication, Computing and Second International Conference on Distributed Computing and International Conference on Distributed Computing Session Chair Session Chair Session Chair Session Chair Session Chair Singapore Session Chair Singapore Session Chair Singapore Session Chair Singapore Session Chair Soft Computing and Security (ICCS'11) Session Chair Session Chair Session Chair Session Chair Singapore Sessi		Information, Communication			Shanghvi-La Hotel,
International Conference on Intelligent Computing, and International Conference on Advances in Computer, Communications Technology & Applications		· ·			_
Intelligent Computing. Member/Revi ACCTA - 2010), 03-05 Advances in Computer, Communications Technology & Applications Electronic Systems, Electronic Systems, Electronic Systems, Electronic Systems, Electronic Systems, Electronic Systems, International Conference on Industrial and Information Systems (ICIIS-2008), Reviewer Aug. 2010, C.V.Raman College of Engineering, Bhubaneswar, India And NTT, Rourkela, India at NTT, Rourkela,	3			Reviewer	
Advances in Computer, Communications Technology & Applications Technology & Applications International conference on Electronic Systems, IEEE Region 10 Colloquium and Third International Conference on Industrial and Information Systems (ICIIS-2008), National conference on secured adhoc network (NSAN-2009), International Conference on Computing, Communication and Sensor Network International Conference on Emerging Trends in Computer, Communication & Nano Technology, International Conference on Communication and Security (ICCCS'11), International Conference on Distributed Computing and Internet Technology, (ICSCT - 2011) International conference on Data Mining International conference on Industrial applications of Soft Computing, Computing, Computing, Computing, Computing, and Security (ICCCS'11), International Conference on Computing and Internet Technology, (ICSCT - 2011) International Conference on Data Mining International conference on Industrial Applications of Soft Computing, and Security (ICCCS'11), International conference on Industrial Applications of Soft Computing, and Security (ICCCS'11), International conference on Computing and Security (ICCCS'11), International conference on Data Mining International conference on Data Mining III Member in the National Advisory Board Core O8-10, October 2012 Dept. of CSE, NIT, Rourkela India, III Member in the National Advisory Board Core O8-10, October 2012 Dept. of CSE, NIT, Rourkela India, III University, III Universi		Intelligent Computing,			
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International conference on Electronic Systems, IEEE Reviewer O7-09, Jan, 2010 at NIT, Rourkela, India NIT, Rourkela, India AVIT, Rourkela, India AVIT, Rourkela, India IIT, Kharagpur, India), IEEE Reviewer S-10 December 2008 IIT, Kharagpur, India), IIT, Kharagpur, India, IIT, Kharagpur, India), II		Communications			C.V.Raman College of
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and Security (ICCCS'11)		Conference on		on Chair	Dept. of CSE, NIT,
		Communication, Computing			Rourkela, India,
16ProgramCommitteeSymposiumDec2011,KIIT,		and Security (ICCCS'11)			
	16	Program Committee		Symposium	Dec 2011, KIIT,

	member for Student		Chair	Bhubaneswar
	Symposium in ICDCIT-			
	2011,			
17	AICTE Sponsored		Resource	November, CEB, BBSR
	Workshop on Computing		Person	
	and Communication,			
	CEB, BBSR			
18	ICDCIT-2018, KIIT,	Springer	Session Chair	Jan 2018, KIIT,
	BHUBANESWAR			BHUBANESWAR
19	ICRIEECE	IEEE	Session Chair	27-28 July 2018, KIIT,
				BHUBANESWAR
20	SCI - 2018	Springer	Session Chair	21-22 Dec 2018, KIIT,
				BHUBANESWAR
21	ICDCIT-2019, KIIT	Springer	Session Chair	10-13 Jan 2018, KIIT,
	BHUBANESWAR			BHUBANESWAR
22	MIND 2019, NIT	Springer	Session Chair	2-4 March 2019, NIT,
	Kurukshetra			KURUKSHETRA
23	ICESIP-2019, IIITDM,	IEEE	Session Chair	4-6 th July 2019,
	Kancheepuram			IIITDM, Kancheepuram
24	ICCAN- 2019	Springer	Session Chair	Dec – 2019 KIIT
				Bhubaneswar
25	16 th ICDCIT - 2020	Springer	Session Chair	9-12 Jan 2020 KIIT
				Bhubaneswar
26	EAETRE - 2020		Session Chair	5-6 March 2020 KIIT
				Bhubanewswar

FACULTY/EXECUTIVES WORKSHOPS/SHORT TERM COURSES/SEMINARS ORGANIZED

Sl.	Title	Duration		Place	Positions
No		From	To		
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 and faculties of NGEE ANN Polytechnic, Singapore (Cloud Computing and Data Center				coordinator
5	Management) 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	30 October,	31 October,	IE(I) Local	Convenor

13	Computing, Communication and Sensor Networks, India Immersion Programme for students and faculties of NGEE ANN Polytechnic, Singapore	2010 15-09-2010	2010	Center, NIT Campus, Rourkela NIT, RKL	Co- cordinator
	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. No.	Name	Institute	Project Title	Duration
1	Miss. Prachi Shukla	BITs PILANI	Fault Tolerant and Efficient Distributed Load Balancing Algorithms	August 2012 to August 2013

> Supervisor for Summer-Internships

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

	Dubey	Chhatisgarh		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	18th May 2009 to
			and Analyzing	8 th July 2009
			Characteristics in	
			MANETs	
4	Jayant Kumar	SRM	Design and	21st 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 and	18 th May 2017 to
		Bhubaneswar	Devices Using Wireless	30 th June 2017
			Sensor Networks	174.75
7	Amanpreet	GIFT,	Digitization of Load	15 th May 2017 to
	Kaur Kanvel	Bhubaneswar	Cells	30 th June 2017
8	Haripriya Kar	Radha Krishna	Smart Environment	25 th May 2018 to
		Engg. College,	Monitoring System	30 th June 2018
0	Debarshee	Khurda Silicon Institute	using Sensors IOT Based Smart	18 th May 2018 to
9	Bardhan	of Technology,	IOT Based Smart Environment	30 th June 2018
	Darunan	Sambalpur	Monitoring System	30° Julie 2018
		Sambaipui	using Arduino	
10	Anmol Sa	GIET Gunupur	Statistical and	1 st June 2018 to
10	7 Hillion Sa	OIL1 Gunupui	Programming Features	30 th June 2018
			Using R	30 June 2010
11	Anubhav	KIIT,	Road Accident Analysis	15 th May 2018 to
	Pattanaik	Bhubaneswar	Using Machine	15 th July 2018
			Learning Methods	,
12	Monalisha	Parala Maharaja	Application of Matlab	23 rd May 2018 to
	Behera	Engineering	**	22 nd June 2018
		College,		
		Berhmpur		
13	U.Hement	_	Development of Air	
	Kumar	Institute of	Pollution Monitoring	29 th April 2019.
14	Anju Bhumij	Technology,	System Using IoT	
		Sikkim	Devices and Machine	
1-		GD) (Learning Approach	1 of Y 2010
15	Adyasa Sahoo	SRM	Performance Analysis of	1 st June 2019 to
		University,	State Exit Poll	30 th June 2019
		Chennai	Prediction Using	
			Artificial Neural	
16	C Cibori	Tridont	Networks Foult Diagnosis using	1st June 2010 45
16	S.Sibani	Trident	Fault Diagnosis using Finite Automata	1 st June 2019 to 30 th June 2019
		Computer Academy,	Timte Automata	30° June 2019
		Bhubaneswar		
		Dilubaneswar		

> 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	
6	Aswini Kumar Naik ST/288991/4	Study of Integrated Refractory Information System, RSP	Dec 2017 to Feb 2018

> 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

Theory					
B.TECH	M.TECH				
Adhoc and Wireless Networks	Advanced Computer Architecture				
Advanced Computer Architecture	Advanced Microprocessor System				
Distributed Operating Systems	Distributed Operating System				
Distributed Systems	Advanced Operating Systems				
Computer Organization and Architecture	Computer Networks				
Microprocessors & Microcontrollers	Parallel and Distributed Systems				
Systems Software	Cluster and Grid Computing				
Computer Graphics					
Computer Networks					
Data Communications & Computer Networks					
Theory of Computation					
Discrete Mathematics					
Data Structures & Algorithms					
Laboratory/Seminar & Technical Writing					
B.TECH	M.TECH				
Data Communication Laboratory	Parallel and Distributed Computing				
VHDL Laboratory	Laboratory				
Microprocessor Laboratory	Seminar and Technical Writing				
System Programming Laboratory	Research Project				
Computing Laboratory	Software Lab Using NS2				
Wireless Sensor Networks Laboratory					
Network Simulation Laboratory Using NS2					
Research Project					

VIDEO LECTURES

- > Systems Software (Jan- June 2017)
- > Data Structures and Algorithms (Jan-June 2017)
- **➤** Discrete Mathematics (Jan June 2018)
- ➤ Microprocessor & Microcontrollers (July Dec 2018)
- ➤ Distributed Systems (Jan- June 2020)

LIST OF PUBLICATIONS

INTERNATIONAL JOURNALS (PUBLISHED) (100)

- > P Tripathy, PM Khilar, (2025) Weighted Centroid Amorphous Algorithm for Position Error Minimization in WSN, Concurrency and Computation: Practice and Experience 37 (1), e8308 doi.org/10.1002/cpe.8308 (SCI)
- > S Nayak, PM Khilar, (2025) A ClusteredRF Approach to Data Imputation in Healthcare for Enhanced Data Integrity Network Modeling Analysis in Health Informatics and Bioinformatics 14 (1), 5. doi.org/10.1007/s13721-024-00496-9 (ESCI)
- > Yadav, N., Khilar, P. M., Sharma, S. (2024), 'An ameliorated localization algorithm for compensating stratification effect based on improved underwater salp swarm optimization technique', International Journal of Communication Systems, Wiley, 37(11), pp. e5786. DOI:10.1002/dac.5786.(SCI)
- > Yadav, N., Khilar, P. M., Sharma, S. (2024), 'RLCS-IUGWOM: Revamped Localization Algorithm for Compensating Stratification Effect based on Improved Underwater Grey Wolf Optimization Method in 3D-UASN', Transactions on Emerging Telecommunications Technologies, Wiley, (SCI) (Accepted)
- ➤ B Ranjan Senapati, S Swain, R Ranjan Swain, P Mohan Khilar "A heterogeneous fault diagnosis approach to enhance performance of connected vehicles" International Journal of Communication Systems 36 (4), e5414, 2023 https://doi.org/10.1002/dac.5414 (SCI)
- ➤ Biswa Ranjan Senapati, Pabitra Mohan Khilar, Tirtharaj Dash, Rakesh Ranjan Swain "AI-assisted emergency healthcare using vehicular network and support vector machine", Injternatuional Journal of Wireless Personal Communications, Volume 130, pages 1929–1962, (2023), https://doi.org/10.1007/s11277-023-10366-8 (SCI)
- > Sipra Swain a, Pabitra Mohan Khilar Biswa Ranjan Senapati, "A reinforcement learning-based cluster routing scheme with dynamic path planning for mutli-UAV network", International Journal of Vehicular Communications 41 (2023) 100605 https://doi.org/10.1016/j.vehcom.2023.100605, (SCI)
- Nishi Yadav, Pabitra Mohan Khilar, "An efficient 3D localization algorithm for compensating stratification effect in underwater acoustic sensor network", Transactions on Emergfing Telecommunications Technologies, Vol. 34, Issue 7, July 2023, e4772 https://doi.org/10.1002/ett.4772 (SCI)
- > Sipra Swain, Pabitra Mohan Khilar & Biswa Ranjan Senapati, "An Efficient Path Planning Algorithm for 2D Ground Area Coverage Using Multi-UAV", Injternatuional Journal of Wireless Personal Communications, Volume 132, pages 361–407, August (2023), https://doi.org/10.1007/s11277-023-10614-x (SCI)
- Nishi Yadav, Pabitra Mohan Khilar, UASN-3D: An energy efficient localization based on LEACH-BR algorithm (EELBL-BR), Transactions on Emergfing Telecommunications Technologies, Volume34, Issue12, December 2023, e4862 https://doi.org/10.1002/ett.4862 (SCI)

- Biswa Ranjan Senapati, Rakesh Ranjan Swain, Pabitra Mohan Khilar, Sourav Kumar Bhoi, Kshira Sagar Sahoo, Automatic house location identification using location service based VANET, Interenational Journal of Communication System, e5947 Version of Record online: 05 August 2024, https://doi.org/10.1002/dac.5865, (SCI)
- > Sipra Swain, Pabitra Mohan Khilar, Biswa Ranjan Senapati, Rakesh Ranjan Swain, Comprehensive fault diagnosis in UAV-assisted sensor networks: "A three-phase automated approach, Computer Communications, Volume 219, April 2024, Pages 76-91, https://doi.org/10.1016/j.comcom.2024.03.002, (SCI)
- > Suraj Sharma, Nishi Yadav, Pabitra Mohan Khilar, "An ameliorated localization algorithm for compensating stratification effect based on improved underwater salp swarm optimization technique", International Journal of Communication Systems, Vol. 37, Issue 8, 1-15, April 2024,
- https://doi.org/10.1002/dac.5786 (SCI)
- Pujasuman Tripathy, P.M. Khilar, "PSO based Amorphous algorithm to reduce localization error in Wireless Sensor Network", Pervasive and Mobile Computing, Volume 100,, May 2024, 101890, https://doi.org/10.1016/j.pmcj.2024.101890, (SCI)
- > Pujasuman Tripathy, P.M. Khilar, Improvement of amorphous localization algorithm in WSN using ALO and GWO, Concurrency and Computation, Volume36, Issue11, May 2024, e8036, https://doi.org/10.1002/cpe.8036, (SCI)
- Siyyadula Venkata Rama Vara Prasad, Pabitra Mohan Khilar, "SVM-SFL based malicious UAV detection in wireless sensor networks", Concurrency and Computation, Volume36, Issue13, June 2024, e8049, https://doi.org/10.1002/cpe.8049, (SCI)
- ➤ Biswa Ranjan Senapati, Sipra Swain, Rakesh Ranjan Swain, PabitraMohan Khilar. "A heterogeneous fault diagnosis approach to enhanceperformance of connected vehicles". International Journal of Communication Systems. vol.e5417, pp.Early Access Online,Dec 2022
- Tisan Das, Rakesh Ranjan Swain, Pabitra Mohan Khilar, and Biswa Ranjan Senapati. "Deterministic linear-hexagonal path traversal scheme for localization in wireless sensor networks". Wireless Networks. vol.26,pp.5437-5453,2020. https://doi.org/10.1007/s11276-020-02404-1 Santoshinee Mohapatra, Pabitra Mohan Khilar. "Fault diagnosis in wireless sensor network using negative selection algorithm and support vector machine". Computational Intelligence. vol.36, no.3, pp.1374-1393,Aug 2020.
- > Jalumuru Nalini, PM Khilar. ''Reinforced Ant Colony Optimization for Fault Tolerant Task Allocation in Cloud Environments''. Wireless Personal Communications. vol.121, no.4, pp.2441-2459, Dec 2021.10.1007/s11277-021-08830-4

- S. Mohapatra, P. M. Khilar Fault diagnosis in wireless sensor network using negative selection algorithm and support vector machine, Computational Intelligence 36 (3), 1374-1393
- ➤ T Das, RR Swain, PM Khilar, BR Senapati, Deterministic linear-hexagonal path traversal scheme for localization in wireless sensor networks, International Journal of Wireless Networks, 2020, 1-17
- M K Gourisaria, A Samanta, A Saha, SS Patra, P M Khilar, Extensive Review on Cloud Computing, Data Engineering and Communication Technology, 53-78, 2020
- ➤ R R Swain, PM Khilar, SK Bhoi, Underlying and persistence fault diagnosis in wireless sensor networks using majority neighbors co-ordination approach, Wireless Personal Communications 111 (2), 763-798, 2020
- P M Khilar, T Dash, Multifault diagnosis in WSN using a hybrid metaheuristic trained neural network, DIGITAL COMMUNICATIONS AND NETWORKS 6 (1), 86-100
- ➤ T Das, PM Khilar, RR Swain, Range-free intersecting chord-based geometric localization scheme for wireless sensor networks, International Journal of Communication Systems 33 (3), e4217
- RR Swain, T Dash, PM Khilar, Lightweight approach to automated fault diagnosis in WSNs, IET Networks 9 (3), 110-119
- A Kesarwani, PM Khilar, Development of Trust Based Access Control Models Using Fuzzy Logic in Cloud Computing, Journal of King Saud University-Computer and Information Sciences, 2019
- ➤ S Mohapatra, P M Khilar, RR Swain, Fault diagnosis in wireless sensor network using clonal selection principle and probabilistic neural network approach, International Journal of Communication Systems 32 (16), e4138, 2019
- ➤ R R Swain, P M Khilar, SK Bhoi, Underlying and Persistence Fault Diagnosis in Wireless Sensor Networks Using Majority Neighbors Co-ordination Approach, Wireless Personal Communications, 1-36, 2019
- ➤ T. Das, P. M. Khilar, R. R. Swain, (2018) Range Free Intersecting Chord Based Geometric Localization Scheme for Wireless Sensor Networks, International Journal of Communication Systems, Nov. 2019, Wiley
- S Bhoi, P Sahu, M Singh, P Khilar, R Sahoo, R Swain, Local Traffic Aware Unicast Routing Scheme for Connected Car System (CCS), IEEE Transactions on Intelligent Transport Systems, 1-16, June 2019
- M Singh, S.K Bhoi, P M Khilar, Omnidirectional Radio Propagation Antenna Using Organized Grouping of Monopole Antennas, National Academy Science Letters 42 (2), 109-11

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- R R Swain, P.M Khilar, T Dash, A Complete Diagnosis of Faulty Sensor Modules in a Wireless Sensor Network, International Journal of Adhoc Networks, 2019 (In Press)

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- ➤ R.R.Swain, P. M. Khilar, T.Das, (2018) Fault Diagnosis and its prediction in Wireless Sensor Networks using Regression Learning to Achieve Fault Tolerance, International Journal of Communication Systems, 1-17, Wiley
- S.K. Bhoi, P. M. Khilar, M. Singh, R.R. Sahoo, R.R. Swain (2018), A routing protocol for Urban Vehicular Ad Hoc Networks to support non-safety applications, Digital Communications and Networks, 4 (2018) 189–199.
- S. K. Bhoi, S. K. Panda, S. R. Ray, R. K. Sethy, V. K. Sahoo, B. P. Sahu, S. K. Nayak, S. Panigrahi, R. K. Moharana, P. M. Khilar (2018), TSP-HVC: a novel task scheduling policy for heterogeneous vehicular cloud environment, International Journal of Information Technology, pp. 1-6, April 2018
- ➤ S.K.Bhoi, D. Puthal, P. M. Khilar Joel, J., P.C.Rodrigues S. K.Panda, L.T.Yang,(2018) Adaptive Routing Protocol for Urban Vehicular Networks to Support Sellers and Buyers on Wheels, Computer Networks, 2018
- ➤ R.R.Swain, P.M.Khilar, S.Bhoi, (2018) Heterogeneous Fault Diagnosis for Wireless Sensor Networks, International Journal of Adhoc Networks, Elsevier Science, Vol. 69, Feb 2018, PP. 15-37.
- ➤ J Singh, PM Khilar, DP Mohapatra, (2018) Code refactoring using slice-based cohesion metrics and aspect-oriented programming, International Journal of Business Information Systems 27 (1), PP.45-68.
- > S.K Bhoi, PM Khilar, M Singh, RR Sahoo, RR Swain,(2018) A routing protocol for Urban Vehicular Ad Hoc Networks to support non-safety applications, Digital Communications and Networks, Open Access.
- ➤ 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)
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- ➤ 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

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- ➤ Jagannath Singh, Subhrakanta Panda, P. M. Khilar & D. P. Mohapatra (2016), A Graph-Based Dynamic Slicing of Distributed Aspect-Oriented Software, ACM SIGSOFT Software Engineering Notes, Volume 41 Number 2, March 2016.pp. 1-8
- ➤ **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 (2015), 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)

2013-2014 (18)

- ➤ Meenakshi Panda, P.M.Khilar (2014), 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 (2014), 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 (2013)**, "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 (2013), 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 (2013),** 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 (2013), 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 (2013), 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 (2013), "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 (2013) "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 (2013). 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 (2013), "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 (2013), "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** (2013) "Fail Over Clusters A Review", International Journal of Computing Science and Information Technology, Vol.1, No. 1, January 2013, pp. 25-44. **IJCSIT.**

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- ➤ Subhasish Dhal and P.M.Khilar, "Deterministic Merging of Blocks for Key Pre-Distribution in Wireless Sensor Networks", National Conference on Recent Advances in Communication Technology (NCRACT-2009), NIT, Rourkela, India, 30th Jan to 1st Feb 2009, 119-123
- ➤ P.M.Khilar and S.Mahapatra, "A Dynamic Distributed Diagnosis Algorithm for Value Faults and Crash Failures" In Proc. of National Conference in Current Trends in Information Technology, 16-17th May 2007, KEC, Bhubaneswer, India.
- ➤ P.M.Khilar and et.al. "A Comparative Study Between Customized and FPGA Product Devices A Review" 46th Annual Technical Journal, Institution of Engineers, Bhubaneswer in February 2005 organized by IE(I) Bhubaneswer, Orissa.[Won Gold Medal and Sundeep Mohapatra Memorial award]

- ➤ **P.M.khilar** "A Stability Based Distributed Routing Mechanism for Mobile Ad-hoc Network" 49th Annual Technical Journal, OEC-2004, Bhubaneswer, PP.EECS26-EECS 36. 2nd Feb 2004 [**Won Gold Medal & First Prize**]
- ➤ P.M.Khilar and et. al. "An Energy Efficient Routing Protocol with Device Awarness in Heterogeneous Mobile Adhoc Networks" Proceedings of National Conference on "Advanced Image Processing and Networking", NACIPAN 2004, Feb. 13 & 14th 2004, organized by National Engineering College, Dept. of CSE & IT, K.R.Nagar, Kovilpatti, Tamilnadu, India-628503, PP. (154-161).
- ➤ **P.M.Khilar and et. al.** "Evaluation of Computer Networks in TCP/IP Environment—a Review", Proceedings of Annual Technical Session, OEC-2003, Bhubaneswer, EECS-1 to EECS-6, January 2003. [Won 2nd Prize]
- ➤ P.M.Khilar and et. al. "A Stability Based Distributed Routing Mechanism for Mobile Ad-hoc Network", National Seminar on Mobile Communication, NSMC-2003, 31st Oct 1st Nov 2003, organised by C.V.Raman College of Engineering, Bhubaneswer, PP. 76-85.
- ➤ **P.M.Khilar and et. al.** "DEAR: A Device and Energy Aware Routing Protocol for Heterogeneous Ad-hoc Network", National Seminar on Mobile Communication, NSMC-2003, 31st oct-1st Nov 2003, organized by C.V.Raman College of Engineering Bhubaneswer .PP. 86-97.
- ➤ **P.M.Khilar and et. al.** "Evaluation of flow control in group communication", CSI 2002, SRIJI College, AP
- **P.M.Khilar and et. al.** "An Architecture for Software Router", Proceedings of 43rd Annual Technical Session-2002, IE (I), Bhubaneswar pp: 228-235, January 2002.
- ➤ **P.M.Khilar and et. al.** "Impact of IT on Web-based Education", Proceedings of Annual Technical Journal, OEC-2002, Bhubaneswar, EECS-15 to EECS-22, January 2002.

BOOKS PUBLISHED (2)

BOOK CHAPTERS REVIEWED (1)

Title	Publisher	Year	Edn	Level	Со-
					author
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

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					

BOOK CHAPTERS PUBLISHED (5)

MEMBERS OF PROFESSIONAL BODIES (13)

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	N/A
Trust-Based Access Control in Cloud Computing Using Machine Learning	Springer	2019	First	Graduate	V. Chaudhari & R.R. Swain
Environmental Monitoring Under Uncertainty Using Smart Vehicular Ad Hoc Network	Springer	2019	First	Graduate	B. R. Senapati, & R. R. Swain
Optimization of Performance Parameter for Vehicular Ad-hoc NETwork (VANET) Using Swarm Intelligence	Springer	2019	First	Graduate	B. R Senapati,

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

Name of professional body: Internet Society, Reston, USA

Membership No:- 45226 Date:- 28-02-2010 Duration:- Life Membership, Status:- LMISOC

Name of professional body: ACCS, Bangalore, India Membership No:- L266M1000281 Date:- 27-02-2010 Duration:- Life Membership, Status:- LMACCS

Name of professional body: IEEE, USA
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".

ACADEMIC OUTREACH ACTIVITIES

2021-2025

- ➤ Guest Speaker for the Engineers' Day function on 15.09.2024 at the Institution of Engineers (India) Angul Local Centre at Angul, Odisha.
- ➤ Resource Person at 5-day boot camp on "Advances in Design-Optimization of Drones" during 22nd to 26th June 2024 Organized by Department of Mechanical Engineering, NIT Rourkela.

- ➤ Keynote Speaker for XAVIER INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE (XICAI 2024), Feb 29-Mar 2, XIM University (New Campus), Bhubaneswar, Odisha.
- ➤ Resource person in the Five day Workshop/Bootcamp proghramme on "Drone Technologies" during 18th March to 22nd March 2023 organized by Department of Electronics and Communication Engineering, NIT Rourkela (Sponsored by MeitY).
- ➤ Resource Person for the E & ICT Sponsored Online FDP on AI, ML and DS for Engineering Applications (2nd to 11th May 2024) organized by <u>Department of CSE, NIT Warangal, Telangana and the Department of ECE, SJBIT Bengaluru, Karnataka</u>
- ➤ Session Chair in Second International Conference on Computing, Communication and Learning (CoCoLe) during 29th to 31st August 2023 Sponsored by SERB Newdelhi and organized by NIT Warangal.
- ➤ Invited Talk on "Applied Artificial Intelligence for Motion Control of Unmanned Aerial Systems" is jointly organized by Dept. of Industrial Design and Mechanical Engineering during 02-06 Sept.2023.
- Resource person at 5-day boot camp on "Computational and Practical Approaches in Droine Technology. During 1st to 5th Dec 2023 Organized by Department of Mechanical Engineering, NIT Rourkela.
- ➤ <u>Keynote Speaker (ATAL FDP) on Distributed Databases on 19th December 2023, organized by GIET Bhubaneswar.</u>

2018-2020

- ➤ Delivered a speech on "COVID 19" in May 2020 at All India Radio, Rourkela.
- ➤ Judge for debate competition on the topic "Digital India" at St. Paul School, Rourkela organized by CSI Rourkela Local chapter on 17th Nov 2019.
- ➤ Member in the scrutiny committee for tendering process of Smart City Ltd Rourkela on Nov. 2019.
- ➤ Delivered expert talk in a five days Short Term Course on Application and Utilization of Automation in Steel and Industrial Sectors held during 21-25 October 2019 at NIT, Rourkela.
- > Dsc Chairman for Ph.D students of BPUT.
- ➤ Delivered Invited Talk on ""VANET and Its Applications",at IE(I) Rourkela, IOT: Applications to Steel Industry" Vizag Steel Plant (Sept 2019), and IOT and Its Applications at GCE Keonjhar (14th Oct. 2019) respectively
- ➤ Delivered a speech on "PMAY-G" in 10th July 2019 at All India Radio, Rourkela.

- ➤ Delivered a speech on "E-Learning" in 23rd May 2019 at All India Radio, Rourkela.
- ➤ Delivered a speech on "Digital Security" in July 2018 at All India Radio, Rourkela.
- ➤ Delivered a talk in the workshop on "Fault Tolerant Wireless Sensor Networks and Its Applications" organized by PSG College of Technology, Coimbatore, TN, on 12th Feb 2018.

1995-2013

- ➤ 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, Chhattisgarh, 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

1995-2011

➤ 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 (10)

- ➤ "The Innovative Mentor Award" by Amdocs, Pune 2018
- Outstanding Reviewer Award by Journal of Adhocs Elsevier Science 2018
- ➤ 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 (12)

Sl.	Name of the	Thesis Title	Year
No	Student		Awarded
1	A. Mohapatra	Fault Diagnosis Algorithms for Wireless Sensor	2014
		Networks	

		(Defence Date: 01/10/2013)	
2	M. N. Sahoo	Distributed Fault Diagnosis in Wireless Adhoc	2015
		Networks	
		(October 2014)	
3	M. Panda	Distributed Self Fault Diagnosis in Wireless Sensor	2016
		Networks Using Statistical Methods	
		(Defence Date: 19/08/2015)	
4	J. Singh	Slicing of Aspect Oriented Programs and Its	2017
		Application to Software Refactoring	
		(Defence Date : 30/12/2016)	
5	N, Panigrahi	Clock Synchronization in Distributed Computing	2017
		Systems	
	3.5.61	(Defence Date: 05/01/2017)	2010
6	M. Singh	Geometric Constraint Based Range Free Localization	2018
		Scheme For Wireless Sensor Networks	
7	Saurabh K. Bhoi	(Defence Date: 25/04/2017)	2018
/	Sauraon K. Bhoi	Path Selection Based Routing Protocols for Urban Vehicular Adhoc Networks	2018
		(Defence Date: 01/06/2017)	
8	Rakesh Ranjan	Design and Evaluation of Composite Fault Diagnosis	2019
0	Swain	Protocols for Wireless Sensor Networks	2017
	Swam	(Defence Date: 28/08/2019)	
9	Santoshinee	Fault Diagnosis in Wireless Sensor Networks using	2020
	Mohapatra	Artificial Immune Systems	2020
	Monapatra	(Defence Date: 14/09/2020)	
10	Biswaranjan	Performance Enhancement of Vehicular Adhoc	2022
	Senapati	Networks(VANET(for Real Time Applications in Smart	2022
		Cities (Defence Date: 2021)	
11	Sipra Swain	Efficient Ground Area Coverage using UAV Networks	2024
11	Sipiu Swain	[Defence Date: 12/04/2024]	2027
12	Puja Suman	Amorphous Based Localization Algorithm for Wireless	2025
12	Tripathi	Sensor Networks	
	P******	[Defence Date: 2024]	
		[Detende Date: 2027]	

NO. OF PH.Ds GUIEDED (Other Universities)(2)

Sl. No	Name of the Student	Thesis Title/Topic /Status	Duration	Name of University
1	Sudhir M	Performance Evaluation of Clusters of Workstations (Date of Defence: 24/06/2017)		CV RAMAN UNIVR, BILASPUR
1	M.Gaurasia	Task scheduling in Cloud Computing Systems (Date of Defence: 2023)	Dec 2019- June 2023	KIIT University, Bhubaneswar

M.TECH (R) COMPLETED (2)

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

MASTERS THESIS COMPLETED (58)

Sl.	Name of the	Thesis Title/Topic	X 7
No	Student		Year
1	S. M. Seji	Traffic Event Detection using Convolutional Neural	
		Network	2020
2	SOUMAJIT MULLICK	Driver Behavior Profiling using Machine Learning	2020
3	NIKKI KUMARI	Road Crack Detection using CNN	
4	BRAHMABIT	Distributed Fault Diagnosis in Wireless Sensor	
	MAHAPATRA	Network using Time Series Prediction	
5	Eswar Prithvi (Dual)	Detection of Emergency Vehicles in Intelligent	2019
	, , ,	Transportation System	
6	Vivek Anand	Data Fault Diagnosis in Wireless Sensor Network	1
		using Spatial and Temporal Correlation	
7	Rohon Das	Driver Behavior Profiling in VANETs	-
8	Debal Chakraborty	Environment monitoring using Wireless Sensor	
		Network	
9	Shubham	A Hybrid Trust Based Access Control Framework for	
	(Accenture)	Cloud Computing	
10	Tisan Das (Tera	Range Free Localization in Wireless Sensor Network	
	Data)		2018
11	Deepak Kumar	Distributed Traversal Based Fault Diagnosis in	
	(Accenture)	Wireless Sensor Network	
12	Abhisek Kesarwani	Development of Trust Based Access Control Models	
	(Pursing Ph.D at NIT,	Using Fuzzy Logic in Cloud Computing	
	Durgapur)		
13	Vijaya Chaudhuri	Trust Based Access Control in Cloud Computing	
	NIC, Delhi	Using Machine Learning	
14	Sugyani Mohapatra	Synchrony Analysis of Yoga Nidra Meditation Using	
	(Dual Degree)	Music as a Control	
15	J.Kakadia	Uniformely Distributed Load Balancing and	
		Bandwidth Delay Service Broker Policy in Cloud	
1.0	A W. C. (TOCK)	Computing	
16	A. Katiyar (TCS)	Analysis and Design of MAC protocols in Wireless	
17	0 0 1/1 /	Sensor Networks	2017
17	S. S. Khatua	Performance Evaluation of Secured Patiant	

		Monitoring System in Health Care Systems	
18	C. B. Riyani	Performance Evaluation of Task Scheduling in Cloud	-
10	C. B. Rayum	Based on Load Balancing and Ant Colony	
		Optimization	
19	Swarupa Pattanaik	Energy Optimization in Data Centers of Cloud	2016
17	5 war apa 1 attanan	Systems Systems	2010
20	Ansari, Toseef	Modified Scheduling Service Workflow in Hybrid	
20	Ahmed	Cloud.	
21	Behera, Pratap	Novel Trust Based Access Control Model for	1
21	Kumar (Pursuing	Cloud Environment	
	Ph.D at IIT, Roorkey)	Glodd Environinent	
22	Bahadure, Sushant	Securing Mobile Ad Hoc Networks Against	2015
22	R	Packet Dropping Attack.	2013
23	Koshy, Rohan	Automatic Migration of Data to NoSQL	-
23	Rosily, Rollali	Databases Using Service Oriented Architecture.	
24	Krishna, Varri	Performance Evaluation of Scheduling	1
4	Murali	Algorithms for Real Time Cloud Computing	
	iviurali	Systems.	
25	Sahu, Bandita	EESCDE: An Energy Efficient SNR-Based	1
23	Sanu, Danuila	Clustering With Data Encryption.	
26	ASTHA MISHRA	Data Privacy in Cloud	
27	NIPUN MADAN	Resource Scheduling in Cloud Computing	
28	MANISH KUMAR	Authentication in Cloud	-
29	ABHISEK SINGH	Distributed Computing	2014
			2014
30	PRIYESH MANJAPARA	WSN	
31	SAMEER KUMAR	On-Demand Heuristic for a Class of Independent	
31	MANDAL	Tasks in Computational Grids	
32	PRANESH DAS	Virtualization and Fault Tolerance in Cloud	
32	(Faculty at NIT,	Computing	
	Nagland)	Computing	
33	IMRAN HOSSAIN	A Novel Approach of Secure Routing Protocol for	-
33	FARUK	Mobile Ad Hoc Networks	
34	SOURAV KUMAR	SGIRP: A Secure and Greedy Intersection Based	1
J - †	BHOI	Routing Protocol for VANET using Guarding Nodes	
	(Assistant Professor,	Troubling Frontier virtual using Guarding 140des	
	P.M.E.C, Berhampur)		
35	RAKESH	An Improved User Authentication Protocol for	†
55	MAHARANA	Hierarchical Wireless Sensor Networks using Elliptic	
	1111 1111 1111 11 11 11 11	Curve Cryptography	
36	SANJAY KUMAR	Efficient Scheduling Heuristics for Independent	2013
50	PANDA	Tasks in Computational Grids	
	Assistant Professor,	Tuono II Computational Orias	
	VSSUIT, Sambalpur)		
37	PRATIK	A Novel Heuristic for a Class of Independent Tasks	†
51	AGRAWAL	in Computational Grids	
	(At IBM)	in computational orius	
38	Neethu Krishna	Improved Load Balancing Technique for Wireless	
50	1 tootha Ixi isiilia	Improved Load Dataneing Teeningue for Wheless	1

	Faculty at NIT,	Sensor Networks Using Divisible Load Theory	
39	Calicut Sukesh Babu V.S	Fault Tolerant Clock Synchronization in Distributed	_
40	Sunil Kumar Gouda (Faculty at NIT,Allahabad)	Systems Load Balancing in Homogeneous Broadcast Distributed Systems and Grid Networks	2012
41	V. Harish Kumar	Secure Load Balancing in Grid Computing Environment	
42	Madhu Rakesh Y	Localized Fault Detection Scheme for Wireless Sensor Networks	
43	Arijit Mukharjee System Engineer, IBM	Resource Management in GRID Systems Using GridSim	
44	Rabi Tejja Reddy AMDOCS	Algorithm based on Booth's Encoding Pattern for Fast Scalar Point Multiplication in ECC for Wireless Sensor Networks	2011
45	Preeti Sachen Software Engineer HCL, Noida, New Delhi	Authenticated Routing for Ad-hoc On-Demand Distance Vector Routing Protocol	
46	Nishi Yadav (Topper, Computer Science Specialization), Faculty at Central University, Bilaspur, Chhatishgarh	Hierarchically Adaptive Distributed Fault Diagnosis in Mobile Ad hoc Networks using Clustering	
47	Nilam Benerjee	Algorithms for Intermittent Fault Diagnosis in Wireless Sensor Networks using Clustering	
48	M.Sunil Kumar Reddy (Faculty at Rajmundry,AP)	Energy Efficient Location Aware End-to-end Data Security Scheme for Wireless Sensor Networks	2010
49	K. Ganesh Reddy (Ph.D scholar at NIT,Surathkal)	Malicious Node Misbehavior Detection and Reaction using Challenged Node Technique in MANET	
50	Santi Kumari Behera (Faculty at VSUIT, Burla, Sambalpur)	Fault Diagnosis in Wireless Sensor Networks Using Timed Automata	
51	Manmath Narayan Sahoo (Topper, Computer Science Specialization), Faculty at NIT, Rourkela.	A Novel Approach for Survivability of IEEE 802.11 WLAN Against Access Point Failure	
52	Sunil Kumar Senapati	Securing Fisheye State Routing Algorithm Against	

53	(Topper, Information Security Specialization), System Engineer, GRIDCO, Bhubaneswar, Orissa,India Subhasish Dhal (Faculty at IIIT, Gauhati) P.Lakshiraman	Data Packet Dropping By Malicious Nodes in MANET Application of Transversal Design and Secure Path Key Establishment for Key Pre-Distribution in WSN Secured VRP for MANETs in Presence of Malicious	2009
	(Faculty, Central University, Hyderabad)	Nodes	
55	Deepak Krishnamurthy	Implementation of a Generic Modular Cryptosystem for the RSA on Recinfigurable Hardware	
56	J. K. Singh (System Engineer, Samsung Electronics, Noida, New Delhi)	Algorithms for Fault Detection in Wireless Adhoc Networks and GRID Systems	2008
57	Rupak Chakraborthy	An Energy efficient Routing Protocol with Device Awareness for Heterogeneous Mobile Ad Hoc Networks	
58	Debendra Kumar Behera	Study of Algorithms For Adaptive Distributed System-Level Diagnosis	2004
59	Flora Nanda (Faculty at VSSUT, Orissa)	Simulation Study on Software Router Architecture	
60	Sanjit Kumar Barik (Faculty, Orissa School of Mining Engineering)	Evaluating the Performance of Distributed Information Retrieval System	2003
61	Ajay kumar	A Stability Based Distributed Routing Mechanism for Mobile Ad-hoc Network	
62	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

$MASTERS\ THESIS\ COMPLETED\ (BPUT,\ SU,\ BU\ \&\ SSSUTMS,\ BHOPAL) (6)$

Sl.	Name of the Student	Thesis Topic	Institute/University	
No				Year
1	Illa Swain	Weighted Clustering in	CET,	
	(Faculty at OEC,	Wireless Adhoc Networks	Bhubaneswar/BPUT	

	Bhubaneswar, Orissa)			2010
2	Reena Sahoo	Malicious Node detection in	Sambalpur	
		MANET	University, Jyoti	
			Vihar, Sambalpur,	
			Orissa	
3	Sefali Das	Algorithms for Fault	Sambalpur	
	(Faculty at DA	Detection in Wireless	University, Jyoti	
	MITs, Rourkela)	Sensor Networks using	Vihar, Sambalpur,	2011
		Clustering	Orissa	
4	Saqlin Ahamad Khan	Efficient Routing	Berhampur	
	(Faculty at RIT,	Algorithms for WSN	University	
	Kalunga, Rourkela)		Berhampur, Orissa	
5	Shivani Patri	Hierarchical Trust Based	Sambalpur	
		Access Control in Cloud	University, Jyoti	2017
			Vihar, Sambalpur,	
			Orissa Sambalpur	
6	Nalini Jalumuru	'Fault Tolerant Task	SSSUTMS,	2019
		Allocation in Cloud with	BHOPAL	
		Reinforcement Learning		
		Using ACO'		

B.TECH THESIS COMPLETED (60)

Sl.	Name of the Student	Thesis Topic	
No			
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	2010
	_	Implementation in Ad-hoc Networks	
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	Ram Prasad Padhy	Load Balancing in Cloud Computing Systems	
10	Goutam Prasad Rao		
11	Argha Sen	Load Balancing using MPI	
12	Swagat Mishra	Resource Allocation Optimization Through Task	
	(Departmental Nominee	based Scheduling Algorithms in Distributed Real	2011
	for institute's best project	Time Embedded Systems	
	award)		

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		2012
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 Networks	
23	Rigveda		2013
24	Shasikant Gupta	Resource Allocation Policy for Virtualized	2013
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		_
29	Durbar Show	Improved Cloud Architecture	
30	Pankaj malviya		2014
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	Mahanatra	Analysis of WDM and Wavelength	
33	Mahapatra,	Anaiysis oj wDM ana wavetengin	
	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.	2016
38	Sachidananda	Development of Wireless Sensor Networks	_
	Moharana	for Object Detection	
	พางแนนแน		

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	2017
		and Statistical Methods	
41	Abinash Sahoo	Range Free Localization in Wireless	
		Sensor Networks Using Trilateration	
42	Jyotirmaya	Environmental Monitoring System Using	
	Ghosh	Unmanned Surface Vehicle	
43	Priyanka Prasad	Comparison of Classifiers for Sentiment	
		Analysis	
44	Nali Naveen	Fault Tolerant Position Based Secure	
		Routing Protocol in Vanets	
45	S.Bhanu Prakash	Trust Based Access Control Model in	-
		Cloud Computing	2018
46	A.S.Satya Sairam	Multi Domain and Decentralized Trust	
		Based Access Control Model in Cloud	
		Computing	
47	Md Tasnim Alam	WSN Based Coal Mine Safety	
		Monitoring System Using IOT	
48	Sagar Bhusal	Real Time Health Monitoring System	
		using Wireless Sensor Network	
49	PAPPU SRI BADRI RAJ	Detection and MItigation of BlackHole Attack	
	SANDEEP	in VANET	
50	GURRAM DILEEP REDDY	Scheduling of Nodes in Wireless Sensor	
		Networks to prolong Network Lifetime	
51	TELLAKULA SATYA KRISHNA	Efficient Detection of Malicious nodes in	2019
		VANETS	
52	SAIKAT DUTTA TANU	Waste Management for Smart Cities	
53	SHAHROZ ALI ARIFI	Android Application Development (MediCS App)	
54	BODDULA SAHITHI	Detection of Wormhole Using Spanning Trees	2022
55 56	GAJA HARIKA MANEESH KUMAR JENA	in Wireless Sensor Networks Simulation of Algorithms for Fault Detection	2020
57	BIBHASH MORANG	in Wireless Sensor Networks (WSNs)	
	•	•	•

58	C. LALNUNCHAMA	Automatic Attendance System using Facial Recognition Technique	
59	ANANYA PADHI	Smart city accident detection using VANET	
60	ARNAPURNA SATAPATHY	Aid marketing between dealers and customers in Smart city using VANET	

PH.D GUIEDANCE UNDER PROGRESS (10)

Sl.	Name of the	Thesis Title/Topic /Status	Year of
No	Student		Joining
1	Nishi Yadav	Localization (Registration Completed)	2020
2	S.Nayak	Data Imputations (Progree Seminar Completed)	2020
3	Pankaj S. Yadav	Localization (Registration Completed)	2021
4	Vara Prasad	FANET (Registration Completed)	2021
5	Sushant Kumar	VANET (Enrolled)	2020
6	Prashant K. Nayak	ML(Registration Completed)	2020
7	Gyan Ranjan Sethi	Cloud Computing(Enrolled)	2020
8	Chinmayee Behera	WSN (Course Work and Comphrenssive	2020
		Completed)	