

DR. ATUL KUMAR DWIVEDI

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ACADEMICS

National Institute of Technology, Raipur

Doctor of Philosophy (Ph D.)

Topic : Optimization Based Design and Implementation of Digital FIR Filters

August 2013 - October 2016

Awarded on: 17/03/2017

Visvesvaraya National Institute of Technology, Nagpur

Master of Technology (M. Tech.)

Specialization : VLSI Design

2009-2011

CGPA: 8.74/10

Passed with Honours

Chhattisgarh Swami Vivekananda Technical University, Bhilai, C. G.

Bachelors of Engineering

Specialization : Electronics and Communication Engineering

2005-2009

CGPA: 8.71/10

Passed with Honours

EXPERIENCE

Bundelkhand Institute of Technology

Department of Electronics and Communication Engineering

An Autonomous establishment by Government of Uttar Pradesh

- Post :Assistant Professor
- Four UG Programs of the Institute Accredited by NBA.
- Established in 1989.

Jhansi, U. P.

December 2017-Till Now

Bhilai Institute of Technology

Department of Electronics and Communication Engineering

- Post :Assistant Professor
- An Autonomous establishment and NAAC A grade certified.
- All UG Programs of the institute are accredited by NBA.
- Established in 1986.

Durg, C. G.

July 2012-December 2017

RESEARCH CONTRIBUTIONS

1. **One sponsored research project is completed** under Visvesvaraya Research Promotion scheme. Project Title: Artificial Intelligence based stress analysis system using electrocardiogram and automated questionnaire, One patent published based on this project and granting in progress. Two research papers are under review.
2. **Two research Projects** are under review
3. **One Ph. D. Completed and one submitted.**
4. Completed **Seven M. Tech** research project guidance.
5. Published **one Book**, Translating one book in Hindi under AICTE Hindi Books Scheme and published **Four Book Chapters**
6. Published **15 SCI**, **4 Scopus** Indexed papers in Journals, **16 International IEEE/Springer Conferences** and **6 National conferences**.
7. **2nd prize** in COMSOL International Conference Bangalore, October 29-30, 2010
8. Session Chair and Track chair in IEEE Region-10 flagship conference Tensymp 2022, 01-03 July, VMCC, IIT Bombay
9. Reviewer in IEEE Transactions on Circuits and Systems II: Express Briefs, Springer's circuit, systems and signal processing and Taylor Francis journal of numerical modelling.
10. As per Scopus record : **h index :6**, Total citations :**177**

ACADEMIC CONTRIBUTIONS

1. Taught Integrated Circuits, Basic Electronics, Emerging domains in Electronics Engineering and Digital System Design using VHDL courses.
2. Top performing mentor award for mentees as topper/Gold medallist by NPTEL
3. Organised more than 10 academic programs like FDP/Workshop/STTP etc
4. Participated in more than 20 outreach activities.
5. Participated in more than 50 academic programs like MOOC courses/FDPs/Workshops/STTPs/Industrial Trainings etc

ADMINISTRATIVE CONTRIBUTIONS

1. Faculty in charge, Innovation and incubation cell BIET Jhansi, established Incubation centre and is fully functional (28 startup registered)
2. Founder and Faculty Incharge of Internet of things Experience Centre, BIET Jhansi
3. Assistant officer Incharge in Training and placement Cell, BIET jhansi
4. Incharge CAD Lab of Electronics and Communication Engineering Department

LIST OF TOP 3 JOURNAL PUBLICATIONS (TOTAL 18)

1. Atul Kumar Dwivedi, Subhojit Ghosh, Narendra D. Londhe, Title: Low Power FIR Filter Design Using Modified Multi-objective Artificial Bee Colony Algorithm, Publication: Elsevier, Journal Name: Engineering Applications of Artificial Intelligence Elsevier Publication, Vol 55, ISSN :0952-1976, October 2016, pages: 58–69, doi:10.1016/j.engappai.2016.06.006, **Quartile Index : Q1, (SCI/Scopus indexed)**, Impact factor: **7.802**
2. Atul Kumar Dwivedi, Subhojit Ghosh, Narendra D. Londhe, Title: **Review** and Analysis of Evolutionary Optimization-Based Techniques for FIR Filter Design, Journal: Springer's Circuits, Systems and Signal Processing Publication: Springer Publication Vol:37 Issue:10, ISSN: 1531-5878 Page: 4409–4430 February 2018, doi:https://doi.org/10.1007/s00034-018-0772-1 Quartile Index : Q2 **(SCI/Scopus indexed)**, Impact factor:**2.311**
3. Hitendra Singh, Atul Kumar Dwivedi, Deepak Nagaria Title : Silicon on insulator C-VTFET based design of low complexity sparse quadrature mirror filter using differential search algorithm Title: Low complexity multiobjective finite impulse response filter design using Salp swarm algorithm and its improved version, Journal: Springer's International Journal of Silicon Publication: Springer Publication Vol :1 Issue :1 ISSN : 1876-9918 Page : 1-8 Publication year : April 2022, **Quartile index :Q2, Indexing : (SCIE/Scopus) Impact factor :2.670** DOI : https://doi.org/10.1007/s12633-022-01858-6

RESEARCH PROJECTS

1. Project Title: Artificial Intelligence based stress analysis system using electrocardiogram and automated questionnaire, PI : Dr. Atul Kumar Dwivedi, Sponsoring Agency: Dr. A. P. J Abdul Kalam Technical University, Lucknow, Sanctioned date: 29 June 2020, Completion date : 30 June 2023
2. Project Title: Impact Analysis of yoga and meditation on depression level using Artificial intelligence based Automated Questionnaire and biomedical signal processing, PI : Dr. Atul Kumar Dwivedi, Sponsoring Agency: DHR, DST, Status : Submitted: Under Review
3. Project Title: Brain Computer interface based Electric Wheelchair for Indoor navigation of visually impaired patients, PI : Dr. Atul Kumar Dwivedi, Sponsoring Agency: Council of science and Technology, U. P., Status : Submitted: Under Review

Current Status: Under Process


Member Details

1. Invite Id	5006047517
2. Name	Atul Kumar Dwivedi
3. Email ID	dratuldwivedi@gmail.com
4. Alternate Email	atuldwivedi@live.in
5. Mobile Number	9713424754
6. Address	Vill pachwara post Palra Jhansi, Jhansi, UTTAR PRADESH, India
7. Organization Name	Individual Capicity
8. Designation	
9. Other Relevant Information	
10. Download Cv Docs	Click Here to download
11. Organization Authorization Letter	Click Here to download

Educational Qualification :

S No	Degree	Institute Name	Passing Year
1	Graduate	Swami Vivekananda Technical University Bhilai	2009
2	Post Graduate	Visvesvaraya National Institute of Technology, Nagpur	2011
3	Doctorate	National Institute of Technology, Raipur	2017

Applied in following departments :

S No	Technical Department	Technical Committee	Status
1.	Electronics and Information Technology Department (LITD)	 Coding and Processing Of Audio, Picture, Multimedia and Hypermedia Information (23)	Pending
2.	Electronics and Information Technology Department (LITD)	()	Pending

Manish Okade

Research Area's: Signal Processing, Artificial Intelligence, Machine and Deep Learning, Information Forensics and Security.

Education

Degree	University/ Institution	Year	Subjects/ Area of Specialization	% of Marks/ Division/Grade
B.E.	Visvesvaraya Technological University (VTU)/ B.V.B College of Engineering & Technology, Hubli, Karnataka, India.	1998-2002	Electronics and Communication Engineering	72.8 % Distinction
M.Tech.	Indian Institute of Technology (IIT) Kharagpur, India. (Advisor: Prof. Prabir K. Biswas)	2004-2006	Electronics and Electrical Communication Engineering (Automation and Computer Vision)	9.14 CGPA
Ph.D.	Indian Institute of Technology (IIT) Kharagpur, India. (Advisor: Prof. Prabir K. Biswas) Thesis Title: Camera Motion Estimation Characterization and its Applications	2009-2014	Electronics and Electrical Communication Engineering (Image Processing and Video Analysis)	Excellent Grade

Teaching

Duration	Designation	Organization	Area(s)
29.03.2023-Continuing	Associate Professor	National Institute of Technology, (NIT) Rourkela, Odisha, India.	Electronics and Communication Engineering Department
02.02.2018 -28.03.2023	Assistant Professor Grade-I	National Institute of Technology, (NIT) Rourkela, Odisha, India.	Electronics and Communication Engineering Department
23.04.2014 -01.02.2018	Assistant Professor Grade-II	National Institute of Technology, (NIT) Rourkela, Odisha, India.	Electronics and Communication Engineering Department
01.07.2006 -16.07.2009	Senior Lecturer	BVBCET, Hubli, Karnataka, India.	Computer Sc. & Engineering Department

05.09.2003 -10.07.2004	Lecturer	BVBCET, Hubli, Karnataka, India.	Computer Sc. & Engineering Department
20.01.2003 -04.09.2003	Assistant Lecturer	National Institute of Technology, (NIT) Surathkal, Karnataka, India.	Electronics and Communication Engineering Department

Doctoral / Master /Bachelor thesis Supervision

a. Ph.D.

Scholar Name	Thesis Title	Status
Pavan Sandula	Thesis Title: Compressed Domain Video Zoom Motion Analysis and Saliency Estimation	Graduated
Ruby Mishra	Lightweight Block Cipher Optimizations for Resource Constrained Applications	Graduated
Kondala Rao	Computational Color Naming for real time applications	Ongoing
Chakrapani Ghadai	Secure Facial Expression Recognition using Deep Learning Techniques	Ongoing
Rittick Maity	Development of a secure adversary-aware multimodal video surveillance framework	Ongoing

b. M.Tech. : 23

c. B.Tech. : 24

Publications

Journal Publications

1. C. Ghadai, D. Patra, M. Okade, "A Novel Facial Expression Recognition Model Based on Harnessing Complementary Features in Multi-scale Network with Attention Fusion", Image and Vision Computing, vol. 149, 2024. <https://doi.org/10.1016/j.imavis.2024.105183>.
2. R. Mishra, M. Okade, K. K. Mahapatra, "Novel Substitution Box Architectural Synthesis for Lightweight Block Ciphers" IEEE Embedded Systems Letters, vol. 16, no. 2, pp. 90-93, June 2024.
3. N. Reddy, B. Das, M. Biswal, M. Okade, "CNN based Image Resizing Forensics for Double Compressed JPEG Images", Journal of Information Security and Applications, vol. 81, Mar. 2024.
4. R. Mishra, M. Okade, K. K. Mahapatra, "Efficient hardware mapping of Boolean substitution boxes based on functional decomposition for RFID and ISM band IoT applications", Integration, vol. 92, pp. 38-47, Sept. 2023.
5. M. Okade, J. Mukherjee, "Discrete Cosine Transform: A Revolutionary Transform That Transformed Human Lives", IEEE Circuits and Systems Magazine, vol. 22, no. 4, pp. 58-61, Dec. 2022.

6. J. Mukhopadhyay, M. Okade, "Circuits & Systems: An Overview of Academic and Research Activities in India", IEEE Circuits and Systems Magazine, vol. 22, no. 4, pp. 73-75, Dec. 2022.
7. K. Jyothi, M. Okade "Text2Color Networks: Deep Learning Models for Color Generation from Compositional Color Descriptions" International Journal on Artificial Intelligence Tools, doi: 10.1142/S0218213023500264.
8. P. Sandula, M. Okade, "A novel video saliency estimation method in the compressed domain", Pattern Analysis and Applications, vol. 25, pp. 867–878 November 2022.
9. P. Sandula, M. Okade, "Robust spatiotemporal saliency estimation method for H.264 compressed videos", Multimedia Tools and Applications, vol. 81, pp. 39021–39039 November 2022.
10. P. Sandula, M. Okade, "Compressed Domain Video Zoom Motion Analysis utilizing CURL", Multimedia Tools and Applications, vol.81, no.9, pp.12759–12776 April 2022.
11. P. Sandula, H. Reddy, M. Okade, "CNN-Based Camera Motion Classification using HSI Color Model for Compressed Videos", Signal Image and Video Processing, Springer, vol. 16, no. 1, pp. 103-110, June 2021.
12. V. Kesana, M. Okade, "Compressed domain zoom motion classification using Local Tetra Patterns", Signal, Image and Video Processing, Springer, vol.13, no.5, pp. 879-885, July 2019.
13. N. Dalmia, M. Okade, "Robust First Quantization Matrix Estimation based on Filtering of Recompression Artifacts for Non-Aligned Double Compressed JPEG Images", Signal Processing: Image Communication, Elsevier, vol. 61, pp. 9-20, Feb. 2018.
14. M. Okade, P. K. Biswas, "A Novel Moving Object Segmentation Framework utilizing Camera Motion Recognition for H.264 Compressed Videos", Journal of Visual Communication and Image Representation, Elsevier, vol. 36, pp. 199-212, April 2016.
15. M. Okade, G. Patel, P. K. Biswas, "Robust Learning based Camera Motion Characterization scheme with Application to Video Stabilization," IEEE Transactions on Circuits and Systems for Video Technology, vol. 26, no. 3, pp. 453-466, March 2016.
16. M. Okade, P. K. Biswas, "Video Stabilization using Maximally Stable Extremal Region Features," Multimedia Tools and Applications, Springer, vol. 68, no. 3, pp. 947-968, Feb. 2014.
17. M. Okade, P. K. Biswas, "Improving video stabilization using multi-resolution MSER features," IETE Journal of Research vol. 60, no. 5, pp. 375-382, Oct. 2014.

Conference Proceedings

1. M. Okade 'First Quantization Matrix Estimation for Double compressed JPEG images: An Adversarial Analysis' in Proceedings of 9th IAPR International Conference on Computer Vision and Image Processing, (CVIP-2024), IIIT Kancheepuram, India, December 19-21, 2024.
2. C. Ghadai, D. Patra, M. Okade, 'A Novel Facial Expression Recognition Model Using Multi-Scale Attention Network' in Proceedings of 8th IAPR International Conference on Computer Vision and Image Processing, (CVIP-2023), IIT Jammu, India, November 3-5, 2023.
3. R. Mishra, M. Okade, K. Mahapatra, 'Optimized Composite Field Based Hardware Architectures for AES S-box using Logic Decomposition Techniques' in Proceedings of 27th International Symposium on VLSI Design and Test (VDAT-2023), Pilani, India, 29-September-1-October, 2023.
4. R. Mishra, M. Okade, K. K. Mahapatra, 'FPGA based High Throughput Substitution Box Architectures for Lightweight Block Ciphers' in Proceedings of 3rd International Conference on Public Key Infrastructure and Its Applications, Bangalore, India, September 9-10, 2022.
5. B. Das, M. Biswal, A. Panigrahi, M. Okade, "CNN Based Image Resizing Detection and Resize Factor Classification for Forensic Applications", in Proceedings of 2nd IEEE International Conference on Range Technology, (ICORT), Integrated Test Range, DRDO, Chandipur, India, August 5-6, 2021.

6. R. Mishra, S. Dutta, M. Okade, K. Mahapatra, "Substitution Permutation Network Based Lightweight Ciphers with Improved Substitution Layers for Secure IoT Applications", in Proceedings of 2nd IEEE International Conference on Range Technology, (ICORT), Integrated Test Range, DRDO, Chandipur, India, August 5-6, 2021. **(Best Paper in the Session award)**
7. R. Mishra, M. Okade, K. K. Mahapatra, 'Optimized S-Box Architectures of PRESENT Cipher for Resource Constrained Applications' in Proceedings of IEEE International Symposium on Smart Electronic Systems, iSES 2020, Chennai, India, December 14-16, 2020 pp. 304-307.
8. H Reddy, P. Nagrale, M. Okade, K. K. Mahapatra, "Hardware Realization of Video Enhancement and Compression Algorithms", in Proceedings of 2nd IEEE International Conference on Range Technology, (ICORT), Integrated Test Range, DRDO, Chandipur, India, August 5-6, 2021.
9. M. Gowri, M. Okade, "Kinect Based Frontal Gait Recognition Using Skeleton and Depth Derived Features" in Proceedings of IEEE National Conference on Communications (NCC), IIT Kharagpur, February 21-23, 2020.
10. U. Anumala, M. Okade, "Forensic Detection of Median Filtering in Images Using Local Tetra Patterns and J-Divergence" in Proceedings of IEEE National Conference on Communications (NCC), IIT Kharagpur, February 21-23, 2020.
11. M. Gowri, M. Okade, "Skeleton based Frontal Gait Recognition utilizing Fourier Descriptors", in Proceedings of IEEE TENCON, Kochi, India, October 17-20, 2019.
12. P. Sandula, M. Okade, "A Novel Zoom Detection and classification technique based on application of Histogram Intersection and Kullback Leibler divergence for compressed videos", in Proceedings of IEEE National Conference on Communications (NCC), IISc Bangalore, February 20-23, 2019.
13. P. Sandula, M. Okade, "Camera zoom detection in the compressed domain", in Proceedings of International Conference on Range Technology, (ICORT), Integrated Test Range, DRDO, Chandipur, India, February 15-17, 2019. **(Best Oral Presentation awarded to Manish Okade for the paper)**
14. K. Jyothi and M. Okade, "Computational Color Naming for Human-Machine Interaction," 2019 IEEE Region 10 Symposium (TENSYP), Kolkata, India, 2019, pp. 391-396.
15. S. Sahu, M. Okade, "Exposing Image Resizing utilizing Welch Power Spectral Density Analysis for Double Compressed JPEG Images", in Proceedings of IEEE Workshop on Information Forensics and Security (WIFS), Hong Kong, 10-13 December 2018.
16. P. Sandula, M. Okade, "Compressed domain zoom motion detection and classification based on application of local ternary patterns on block motion vectors", in Proceedings of Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP-2018), IIIT Hyderabad, December 18-22, 2018.
17. N. Brinda, M. Okade, "Fast Camera Motion Estimation utilizing Mode and Directional Self Information in the Compressed Domain" in Proceedings of INDICON-2017, IIT Roorkee, December 15-17, 2017.
18. N. Dalmia, M. Okade, "First Quantization Matrix Estimation for Double Compressed JPEG Images Utilizing Novel DCT Histogram Selection Strategy", in Proceedings of Tenth Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP) IIT Guwahati, 18 - 22 December 2016.
19. N. Dalmia, M. Okade, "A Novel Technique for Misalignment Parameter Estimation in Double JPEG Images with Application to Forensics", in Proceedings of Visual Communications and Image Processing (VCIP), Chengdu, China, 27-30 November 2016.
20. J. Bhatia, M. Okade, "A Novel Image Enhancement Technique based on Statistical Analysis of DCT coefficients for JPEG Compressed Images", in Proceedings of IEEE National Conference on Communications (NCC), IIT Guwahati, Mar 4-6th 2016, pp. 148-153.
21. S. A. Ganihar, S. Joshi, N. Patil, U. Mudenagudi, M. Okade, "Voting Based Decision Framework for Optimum selection of Interpolation Technique for 3-D Rendering Applications", in Proceedings of IEEE Techsym, IIT Kharagpur, Feb 28-Mar 2 2014. **(Best paper in Technology in Education category as well as Runner up in Best poster award category)**

22. M. Okade, P. K. Biswas, "A Novel Motion Vector Outlier Removal Technique based on Adaptive Weighted Vector Median Filtering for Global Motion Estimation", in Proceedings of IEEE Indicon, IIT Bombay, 13-15th Dec 2013.
23. M. Okade, P. K. Biswas, "Fast Video Stabilization in the Compressed domain", in Proceedings of IEEE International Conference on Multimedia and Expo (ICME) 2012, Melbourne, Australia, July 9-12, 2012, pp. 1015-1020.
24. M. Okade, P. K. Biswas, "Fast Camera Motion Estimation using Discrete Wavelet Transform on block motion vectors", in Proceedings of 29th IEEE Picture Coding Symposium (PCS) 2012, Krakow, Poland, May 7-9, 2012, pp. 333-336.
25. M. Okade, P. K. Biswas, "Mean shift clustering based outlier removal for global motion estimation" in Proceedings of IEEE NCVPRIPG IIT Jodhpur, India, Dec 18-21, 2013.
26. M. Okade, P. K. Biswas, "Improving Video Stabilization in the Presence of Motion Blur", in Proceedings of IEEE NCVPRIPG, Hubli, India, Dec. 15-17, 2011, pp. 78-81.

Book Chapter

1. Manish Okade "Visual Saliency under Uncertain Workspace of Assistive Robots" Assistive Robotics, edited by Debanik Roy and S. Chakraverty, Taylor & Francis (CRC Press, USA) (In-Press).

Sponsored Projects

Period	Sponsoring Organization	Title of Project	Budget (INR)	Co-Investigators (if any)
2016-2019	SERB under Early Career Research Award	Role of camera motion cue in determining visual saliency and its applications to surveillance using TI DaVinci vision board	22.73 lakhs	---
2019-2022	DRDO	Development of a low power video compression and enhancement module using TI's DaVinci board along with its FPGA realization	16.11 lakhs	Prof. K. K. Mahapatra
2021-2023	DST	Gender Advancement for Transforming Institutions (GATI)	9 lakhs	Prof. Dipti Patra
2023-2028	MeitY	Visvesvaraya Ph.D. Scheme project titled "Development of a secure adversary-aware multimodal video surveillance framework"	30 lakhs	Prof. Dipti Patra
2023-2026	SERB-MATRICES	Lightweight Cryptographic realizations with focus on Substitution box optimizations for IoT applications	6.60 lakhs	---

Consultancy Projects

Period	Sponsoring Organization	Title of Project	Budget (INR)
May-Oct 2024	Rourkela Steel Plant (RSP)- Letter of Intent issued by RSP for PoC.	Development of secure blockchain-based verified credentialing for RSP use cases, namely employee pay slips and steel quality certification.	12 lakhs

Outreach Activities

Sl. No	Outreach Activity Details	Duration		No. of External Participants	Funding
		From	To		
1	Short term course on "Multimedia Forensics and Security"	02/07/2018	06/07/2018	15	TEQIP-III
2	Short term course on "Video Analytics: A Security Perspective"	05/07/2019	09/07/2019	42	MeitY under Information Security Education and Awareness (ISEA) project
3	Deep Learning Applications in Image Processing under Security ambit (Online Mode)	05/10/2020	09/10/2020	80	MeitY under Information Security Education and Awareness (ISEA) project
4	Machine and Deep Learning for Image and Video Processing Applications	24/02/2021	28/02/2021	100	TEQIP-III under Twinning mode with GEC Bilaspur`
5	GIAN Course: Adversarial signal processing and machine learning with application to multimedia forensics	14/02/2022	18/02/2022	50	GIAN Course: Prof. Mauro Barni, University of Siena, Italy.
6	Security aspects of Cyber Physical Systems: UAV's & Driverless cars	29/04/2024	03/05/2024	27	TiHAN-IIT Hyderabad under Skill Development Workshop

Professional Membership

IEEE Senior Member: July 1, 2022-Continuing.

IEEE Member: March 2012-June 30, 2022

International Collaborations

Ongoing collaboration with Prof. Mauro Barni, University of Siena, Italy. MHRD sponsored GIAN course completed with Prof. Mauro Barni, titled “Adversarial signal processing and machine learning with application to multimedia forensics”, Feb. 14-18, 2022.

Awards and Honors

Sl.No	Name of the Award/Honor	Awarded by	Year
1.	Elected as a Member of the IEEE Information Forensics and Security Technical Committee. (2024-2026)	IEEE Signal Processing Society	2023
2.	Member of the Indian Delegation which visited United Kingdom as part of the Gender Advancement for Transforming Institutions (GATI) programme of DST to understand the best practices of Athena Swan awarded institutions namely University of Manchester, Aston University, Birmingham and Advance HE, London.	DST, Govt. of India	2023
3.	Best Oral Paper Presentation in a session award at International Conference on Range Technology, ICORT-2021.	Integrated Test Range, DRDO	2021
4.	Honoured to anchor the 18th Annual Convocation of NIT Rourkela with Hon'ble President of India Shri. Ram Nath Kovind ji as Chief Guest in March 2021.	NIT Rourkela	2021
5.	Member of the Indian Delegation which visited Tokyo, Japan from 24 Jan. to 2 Feb. 2020 as part of the Sakura Science Exchange Program to explore bilateral collaboration in Science and Technology with Japanese Universities and Research Institutions.	Japan Science and Technology (JST)	2020
6.	Best Oral Paper Presentation in a session award at International Conference on Range Technology, ICORT-2019.	Integrated Test Range, DRDO	2019
7.	Early Career Research Award.	SERB-Govt. of India	2016
8.	Best paper in Technology in Education category and Runner up for best poster award for student paper at IEEE Techsym Conference.	IIT Kharagpur	2014
9.	Travel Grant Award of Rs. 75000/- to present paper at International Conference on Multimedia and Expo (ICME) conference held at Melbourne, Australia.	Microsoft Research India	2012
10.	IBM Great Mind Challenge Award for best project guidance.	IBM India	2008
11.	1 st Prize in Essay writing competition during M.Tech. studies at IIT Kharagpur.	IIT Kharagpur	2006
12.	3 rd Rank in Inter School Maths Olympiad held at State level (Karnataka).	Kendriya Vidyalaya (KV), Hubli, Karnataka, India	1996

Institute Administration

Post	Details	Duration	
		From	To
Member	Department Academic Committee	01/07/2014	31/06/2016
Member	Department Purchase Committee	01/07/2014	31/06/2016
Professor In-Charge	Department Computer Simulation Laboratory	07/08/2015	30/06/2020
Professor In-Charge	Department Timetable	01/07/2017	31/06/2019
Faculty Advisor	B.Tech. and Dual Degree batch	01/07/2014	31/06/2019
Member	Central Timetable Committee (Senate Committee)	01/07/2017	31/06/2019
Member	14 th Annual Convocation Dress Distribution Committee	12/01/2016	22/01/2016
Member	15 th Annual Convocation Venue Preparation and Seating Arrangement committee	13/10/2017	22/01/2018
Member	Scrutiny Committee for faculty members for participation in continuing education programmes under TEQIP-III	05/01/2018	30/06/2020
Member	Institute Furniture Committee	15/03/2018	23/09/2019
Warden	M S Swaminathan Hall of Residence	01/07/2018	30/06/2020
Help Desk Member	CSAB/JOSAA Counseling	16/06/2018	30/07/2018
Member	Housekeeping and Sanitation committee for all Halls of Residence & Academic and Administrative areas	23/07/2018	30/06/2020
Member	Institute Anti-Ragging Committee	31/08/2018	21/08/2019
Member	Institute Research Scholars Week (RSW) committee	01/03/2014	31/06/2019
Professor In-Charge	Institute Research Scholars Week (RSW)	01/07/2019	30/06/2021
Faculty in-charge	CSAB/JOSAA Counseling	16/06/2019	30/07/2019
Convener	16 th Annual Convocation Venue Preparation and Seating Arrangement committee	30/10/2018	22/01/2019
Convener	17 th Annual Convocation Venue Preparation and Seating Arrangement committee	29/07/2019	22/01/2020
Member	Committee for deciding Best Performance Awards among Non-Teaching Employees.	07/11/2019	30/06/2020

Member	Curriculum, Ranking and Accreditation Committee (Senate Committee)	01/07/2020	30/06/2023
Convener	18 th Annual Convocation Venue Preparation and Seating Arrangement committee	29/07/2020	22/03/2021
Chairman	Department Information Brochure	28/08/2020	30/10/2020
Chairman	Institute Information Brochure	01/12/2020	26/01/2021
Convener	18 th Annual Convocation Anchor & Stage Management. Anchored the Convocation in presence of Chief Guest, Hon'ble President of India, Shri. Ramnath Kovind ji.	29/07/2020	22/03/2021
Head of Centre (HoC)	Computer & Informatics Centre	01/07/2021	30/06/2024
Convener	19 th Annual Convocation Anchor & Stage Management.	25/10/2021	13/08/2022
Professor In-Charge	Blockchain based digital degrees for 19 th Annual Convocation graduands.	03/05/2021	13/08/2022
Convener	20 th Annual Convocation Anchor & Stage Management.	20/10/2022	04/02/2023
Professor In-Charge	Centre of Excellence (CoE) on Cybersecurity and Open-Source Technologies.	31/10/2022	Continuing
Member	Institute Surveillance Committee	10/11/2022	Continuing
Chief Information Security Officer (CISO)	Institute Liaisoning Officer with agencies like Cert-In, MeitY etc. on matters related to Cybersecurity	11/01/2023	30/06/2024
Convener	21 st Annual Convocation Anchor & Stage Management.	19/07/2023	20/01/2024
Associate DEAN	Faculty Welfare (FW)	01/07/2024	Continuing

Date of Birth

22/07/1980

Marital Status

Married.

Contact Information

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<https://website.nitrkl.ac.in/FProfile.aspx?e=okadem>

References

1] Prof. Prabir K. Biswas Professor Dept. of Electronics and Electrical Communication Engineering IIT Kharagpur Kharagpur-721302, India pkb@ece.iitkgp.ac.in , +91-9434012899	2] Prof. Jayanta Mukhopadhyay Professor Dept. of Computer Science and Engineering IIT Kharagpur Kharagpur-721302, India jay@cse.iitkgp.ac.in , +91- 9732616257
3] Prof. Animesh Biswas Professor Dept. of Electrical Engineering IIT, Kanpur Kanpur-208016, India abiswas@iitk.ac.in , +91-9415132483	4] Prof. Sanjit K. Mitra Distinguished Professor Emeritus of Electrical and Computer Engineering, University of California, Santa Barbara, California and Distinguished Professor Emeritus, Ming Hsieh Department of Electrical and Computer Engineering, University of Southern California, Los Angeles, California e-mail: mitra@ece.ucsb.edu (805) 893-3957, (213) 740-2358
5] Prof. Mauro Barni Full Professor Dept. of Information Engineering and Mathematics, University of Siena, Italy. barni@dii.unisi.it , +39-3292606671	6] Prof. Raja Datta Professor Dept. of Electronics and Electrical Communication Engineering IIT Kharagpur Kharagpur-721302, India rajadatta@ece.iitkgp.ac.in , +91-94740659053
7] Prof. Umamaheshwar Rao Director NIT Rourkela Rourkela, Odisha umakaranam@gmail.com , director@nitrkl.ac.in +91-9733888099	

Current Status: Under Process

Member Details

1. Invite Id	6361390306
2. Name	Manish Okade
3. Email ID	okadem@nitrkl.ac.in
4. Alternate Email	manishokade@gmail.com
5. Mobile Number	8895853758
6. Address	FRB-110, NIT campus, Sundargarh, ODISHA, India
7. Organization Name	Individual Capicity
8. Designation	
9. Other Relevant Information	
10. Download Cv Docs	Click Here to download
11. Organization Authorization Letter	Click Here to download

Educational Qualification :

S No	Degree	Institute Name	Passing Year
1	Graduate	BVB College of Engineering & Technology, Hubli, Karnataka	2002
2	Post Graduate	IIT Kharagpur	2006
3	Doctorate	IIT Kharagpur	2014

Experience of R & D projects undertaken :

S No	Project Name	Institute Name	Research File
1	Role of camera motion cue in determining visual saliency and its applications to surveillance using TIs DaVinci Board	AI/ML/DL and Security	Click Here to download
2	Development of low power video compression and enhancement module using TI's Davinci board and its FPGA realization	AI/ML/DL and Security	Click Here to download
3	Lightweight Cryptographic realizations with focus on Substitution box optimizations for IoT applications	Hardware Security	Click Here to download

Papers Published(Not more than 3 important ones) :

S No	Title	Publisher	Year	File
1	Novel Substitution Box Architectural Synthesis for lightweight block ciphers	IEEE	2024	Click Here to download
2	CNN based Image Resizing Forensics for Double Compressed JPEG Images	Elsevier	2024	Click Here to download
3	Robust Learning based Camera Motion Characterization scheme with Application to Video Stabilization	IEEE	2016	Click Here to download

Applied in following departments :

S No	Technical Department	Technical Committee	Status
1.	Electronics and Information Technology Department (LITD)	Audio, Video And Multimedia Systems And Equipments (7)	Request circulated to members for input
2.	Electronics and Information Technology Department (LITD)	Software And System Engineering (14)	Pending
3.	Electronics and Information Technology Department (LITD)	Information Systems Security And Privacy (17)	Request put up to Sectional Committee for consideration
4.	Electronics and Information Technology Department (LITD)	<input type="checkbox"/> Coding and Processing Of Audio, Picture, Multimedia and Hypermedia Information (23)	Pending
5.	Electronics and Information Technology Department (LITD)	Blockchain and Distributed Ledger Technologies (29)	Pending
6.	Electronics and Information Technology Department (LITD)	Artificial Intelligence (30)	Request put up to Sectional Committee for consideration

CURRICULUM VITAE

Education:

Ph.D. (Electronics), Doctorate from VJTI Mumbai (Affiliated to Mumbai University) in 2019.

M.Tech (Electronics), Shri Guru Govind Singhji Institute of Engineering & Technology, Nanded (An Autonomous Institute of Govt. of Maharashtra) Affiliated to SRTMU, Nanded (2010)

B.E. (Electronics & Telecommunication), with First Class from Government Engineering College, Amravati affiliated to Saint Gadgebaba Amravati University, Amravati (2006).

GATE Examination Qualified: - 1) 2007 with AIR- 3000, 2) 2009 with AIR- 2212, 3) 2011 with AIR 766 4) 2012 with AIR 832.



Personal Information:-

Name:- Rahul Ramdas Ingle

DoB:- 08 June, 1985

Contact No:- 9730761090, 7588496103

Email Id:-
1) rahulinge92@gmail.com
2) rringle@vjti.org.in

Languages Known:- Marathi, English, Hindi

Computer Proficiency:- MSCIT, MATLAB, SCILAB, PYTHON, Open CV, C/ C++
language.

Nationality:- Indian

Address:- s/o RAMDAS D INGLE
JAWAHAR NAGAR, VMV ROAD,
AMRAVATI-444604.

Work Experience: Total experience: - 131 months (10 years, 11 months)

Sr. No.	Name of the Employer	Period of service in each post (Duration in Months)		Designation of post held	Nature of work and level of responsibilities
		From	To		

1	V.J.T.I., MUMBAI <i>(An autonomous institute of Govt of Maharashtra)</i>	18.04.2011	Till Date	Lecturer (Selection Grade)	Teaching, Lab Development, Administrative work.
2	Sipna's College of Engineering and Technology, Amravati	01.01.2010	15.04.2011	Assistant Professor	Teaching, Lab development activity.
3.	HVPM College of Engineering and Technology, Amravati	16.04.2007	28.07.2008	Lecturer	Design & Developments in Real Time Environments.

Ph D Thesis:

Impact Analysis of Meditation on EEG signals: A Case Study

Under Guidance of Prof R. N. Awale, Professor, VJTI, Mumbai India.

Active Research Area:

- *Data Analytics, Data Science and Machine Learning*
- *Electronics Devices and Circuits*
- *Digital Signal Processing, Digital Image Processing*
- *Network Analysis, Control System , Signals & System*

List of PUBLICATION:

1. ***A Unique Approach of Noise Elimination from Electroencephalography Signals between Normal and Meditation State***, R.R.Ingle, R N Awale, *International Journal of Engineering-Transactions B: Application* , doi:10.5829/ije. 2018.31.04a.06 Published in 2018 (SCI and Scopus Indexed Journal).
2. ***Classification of EEG Signals during Meditation and Controlled State Using PCA, ICA, LDA and Support Vector Machines***, Rahul Ingle, Sonal Oimbe, Vikram Kehri, R N Awale, *International Journal of Pure and Applied Mathematics* Volume 118 No. 18 2018, 3179-3190. (Scopus Indexed)
3. ***Detection of Soil Water Content Using Continuous Wave Ground Penetrating Radar***, Sonal Oimbe, Rahul Ingle, Shashikant Sahare, R N Awale, Published in R Ingle, RN Awale - JOIV: *International Journal on Informatics Visualization*, 2018, doi:- 10.30630/joiv.2.1.104 (Scopus Indexed)
4. ***A Review on Classification of EEG Signals of Different States***, Rahul Ingle, Digambar Puri, Vikram Kehri, RN Awale, *International Journal Of Scientific Progress and Research (IJSPR)*, Volume-12, Number - 01, 2015
5. ***Epileptic Seizure Detection using Discrete Wavelet Transform based Support Vector Machine***,

Prashant Deshmukh, Rahul Ingle, Vikram Kehri, R N Awale Published in *IEEE conference ICCSP-ASP* in January 2007.(Scopus Indexed)

6. **Comparative Classification of EEG signals during Vipassana Meditation using wavelet transform**, R R Ingle and R N Awale, submitted to *Elsevier Journal of Biomedical Signal Processing and Control*, August 2019. *Accepted*. (Scopus and SCI Indexed)
7. **Support Vector Machine based Classification of EEG Signals For Alcoholic and Controlled state using Wavelet Packet Transform**, R R Ingle, Sonal Oimbe, R N Awale , Published in International Conference of Signal Processing, Goa held by Technical Research Organization of India (TROI). *Conference proceeding at IJACET* with ISSN (PRINT):2394-3408,(ONLINE):2394-3416,VOLUME-3,ISSUE-6,2016.
8. **Techniques of EMG signal analysis and classification of Neuromuscular diseases**, Vikram Kehri, Rahul Ingle, Sonal Oimbe, R N Awale, Published in *Atlantis Press of ICCASP- 2016 held at DBATU, Lonere*.
9. **Wavelet Packet Sub-band Based Classification of Alcoholic and Controlled State EEG Signals**, Digambar Puri, Rahul Ingle, Pramod Pramod Kachare, R N Awale, Published in *Atlantis Press of ICCASP- 2016 held at DBATU, Lonere*.
10. **Analysis of EEG signals during meditation using Wavelet Transform**, R R Ingle and R N Awale, *IEEE Journal of Signal Processing*, Sept 2014.
11. **Performance Model for Fast Fourier Transform**, R R Ingle and R N Awale, *International Journal on Signal Processing (IJSP-2013)*, vol. 8, issue 3, 36-42, March 2013.

Project Completed:

- Successfully completed **MODROB project by AICTE** for Communication Laboratory for the year 2012-2014 from AICTE worth grant of Rs. 14 lac.
- Successfully Set up **Biomedical Research Lab** (Under Government of Maharashtra Grant worth Rs.5.18 Cr) as Co-Principal Investigator.
- Currently working on the Project “Impact of Meditation on EEG signals” as Principal Investigator funded by **PORTESCAP Ltd, Andheri** (Corporate Social Responsibility (CSR Fund) of Rs. 18 Lac).
- Successfully completed the Project “Effect of Different aroma in EEG signals” as Principal Investigator funded by **Marico Ltd, Andheri** (Corporate Social Responsibility (CSR Fund) of Rs. 18 Lac).

Other Activities:

- **Lab Incharge of Communcation Laboratory** in Autonomous VJTI Mumbai 2011-Till date.
- **NBA coordinator** of Electronics Stream at Department.
- Worked as **Sub District Liaison Officer** for conducting MT-CET Exam 2013 in Mumbai City for Government of Maharashtra.
- Merit List verification Officer in RO DTE Mumbai for year 2012, 2013.
- Member of **AICTE Inspection team** for different Engg. Colleges in India.
- Member of **DTE committee** for inspection of Diploma Courses.
- Life member of **ISTE and IETE**.

- *Member of IEEE.*
- *Working as a **Sub District Liason Officer** for Conducting MHT-CET Exam 2017 in Mumbai City for Government of Maharashtra.*
- ***Consultant** for Brihan Mumbai Municipal Corporation (BMC) for calibration of weighing machine at dumping yard Deonar.*

Workshop Conducted for VJTI:

- *Coordinator for TEQIP Sponsored two week Workshop on “**Signal and Image Processing with wavelet**” from 16th-25th, Dec 2013 in VJTI Mumbai and generated a total revenue of Rs. 1,05,000/- for institute.*
- *Coordinator for four days Training Programme on , “**TEQIP MIS**” by NPIU/SPFU Maharashtra state on 10th- 13th , March 2014 at VJTI Mumbai.*
- *Coordinator for one day Training Programme on , “**TEQIP eFMR**” by NPIU/SPFU Maharashtra state on 16th,April 2014 at VJTI Mumbai.*
- *Coordinator for one week **International Workshop** under TEQIP II on “**25 YEARS OF PASSIVITY BASED CONTROL: NEW VISTAS**” in VJTI Mumbai from 19th-23rd, May 2014.*
- *Coordinator for one week TEQIP Sponsored workshop on “**A GEOMETRIC APPROACH TO THE MODELLING AND CONTROL OF MECHANICAL SYSTEMS**”, at IIT Bombay For VJTI Mumbai from 5-9 May 2014.*
- *Coordinator for one week TEQIP Sponsored workshop on “**Networked and Embedded Control for Complex Systems**”, by IIT Madras at VJTI Mumbai from 15-19 Dec 2014.*
- *Coordinator for one week TEQIP Sponsored workshop on “**Nonlinear & Optimal Control**”, by IIT Bombay at VJTI Mumbai from 24,25,26, 31 Jan & 1 Feb 2015.*
- *Coordinator for One week AICTE Sponsored QIP on “**Biomedical Instrumentation & Signal Processing**” on 29thFeb- 5th March 2016 at VJTI Mumbai.*
- *Coordinator for One week AICTE Sponsored QIP on “**Antenna, RF & Microwave System Design**” on 8- 13 March 2016 at VJTI Mumbai.*
- *Coordinator for One week AICTE Sponsored QIP on “**High Voltage & Partial Discharge**” on 14-19 March 2016 at VJTI Mumbai.*
- *Coordinator for One week AICTE Sponsored QIP on “**New Trends in Biomedical Signal Processing**” on 16-21 Jan 2017 at VJTI Mumbai.*
- *Coordinator for Conducting Two days SPFU, Government of Maharashtra sponsored workshop on “**Finance and Accounts**” on 8-9 Feb, 2017.*

- *Coordinator for conducting Two Weeks AICTE Sponsored QIP on “Machine Learning application for Engineers”.*

Rahul Ingle

Current Status: **Under Process**

Member Details

1. Invite Id	2120099815
2. Name	Rahul Ingle
3. Email ID	rahulingle92@gmail.com
4. Alternate Email	rringle@el.vjti.ac.in
5. Mobile Number	9730761090
6. Address	Electrical Engineering Department, VJTI, H R Mahajani Marg, Matunga East, Mumbai 400019, Mumbai, MAHARASHTRA, India
7. Organization Name	Veermata Jijabai Technological Institute, Mumbai
8. Designation	Assistant Professor (Selection Grade)
9. Other Relevant Information	Currently Selected as a Principle Investigator at VJTI for Maharashtra Drone Mission of Government of Maharashtra
10. Download Cv Docs	Click Here to download
11. Organization Authorization Letter	Click Here to download

Educational Qualification :

S No	Degree	Institute Name	Passing Year
1	Graduate	Government Engineering College, Amravati, Maharashtra	2006
2	Post Graduate	SGGS Institute of Engineering and Technology, Nanded	2010
3	Doctorate	Veermata Jijabai Technological Institute (VJTI), Mumbai	2019

Experience of R & D projects undertaken :

S No	Project Name	Institute Name	Research File
1	Analysis of MRI for Detection of Brain Tumor	Machine Learning, Artificial Intelligence, Image Processing	Click Here to download
2	Impact of Meditation on EEG Signals	Machine Learning, Artificial Intelligence, Signal Processing	Click Here to download

Papers Published(Not more than 3 important ones) :

S No	Title	Publisher	Year	File
1	A Unique approach of Noise elimination from Electroencephalography Signals between normal and Meditation state	International Journal of Engineering : Transaction	2018	Click Here to download

S No	Title	Publisher	Year	File
2	Classification of EEG signals during Meditation and controlled state using PCA, ICA, LDA and Support Vector Machines	International Journal of Pure and Applied Mathematics	2018	Click Here to download
3	Forecasting bowler performance in One-Day International cricket using Machine learning	Expert Systems With Applications	2024	Click Here to download

Applied in following departments :

S No	Technical Department	Technical Committee	Status
1.	Electronics and Information Technology Department (LITD)	<input type="checkbox"/> Coding and Processing Of Audio, Picture, Multimedia and Hypermedia Information (23)	Pending
2.	Electronics and Information Technology Department (LITD)	Digital Governance (25)	Pending
3.	Electronics and Information Technology Department (LITD)	Alarms And Electronic Security Systems (26)	Rejected
4.	Electronics and Information Technology Department (LITD)	Internet of Things and & Digital Twin (27)	Rejected
5.	Electronics and Information Technology Department (LITD)	Artificial Intelligence (30)	Request put up to Sectional Committee for consideration
6.	Electronics and Information Technology Department (LITD)	Cloud Computing, IT & Data Centres (31)	Pending
7.	Electronics and Information Technology Department (LITD)	Wearable electronic devices and technologies (33)	Request put up to Sectional Committee for consideration
8.	Electronics and Information Technology Department (LITD)	Computer hardware, Peripherals, Office equipment and User Interfaces (36)	Pending
9.	Electronics and Information Technology Department (LITD)	Brain-Computer Interface (37)	Pending



VJTI MUMBAI

वीरमाता जिजाबाई तंत्रज्ञान संस्था
Veermata Jijabai Technological Institute
(Autonomous Institute of Govt. of Maharashtra)

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No. EST/1/ 2331 /2023

Date: 7th July 2023

11 0 JUL 2023

EXPERIENCE CERTIFICATE

This is to certify that **Dr. Rahul R. Ingle** is working with this Institute as a Lecturer in the Electrical Engg. Department (Electronics) from 18-04-2011 to till date.

This certificate is issued on his own request.



R. Ingle
Registrar
Veermata Jijabai Technological Institute,
Matunga, Mumbai - 400019.



SIPNA SHIKSHAN PRASARAK MANDAL'S
COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E. and Govt. of Maharashtra, affiliated to Amravati University.)
Sipna Campus, Infront of Nemani Godown, Badnera Road, Amravati - 444 605.

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Jagdish Gupta M.L.C.

President, Ex. Minister of State, Maharashtra
Ph. (0721) - 2650504, 2572526 (R.)

Dr. S. A. Ladhake

Principal
Ph. (0721) 2522343(O.), 2663908 (R.)

No. CET/ESTT/PF-Ingle/ 3260
Dated the 15th April 2011

Certificate

This is to certify that Shri R. R. Ingle was working as a Lecturer in Electronics & Telecommunication Engineering at this college from 1st January 2010.

Subsequent upon his resignation, he is relieved from the services from 15th April 2011 afternoon.

This establishment wishes him every success in future.

Principal
College of Engineering & Technology
Amravati

Neeraj J. Gadgil, PhD

Senior Chief Engineer

AI Video Processing lab

Samsung R&D Institute India – Bangalore

Mobile: +91-9975217430

Email: neeraj.g2@samsung.com



Education



Purdue University, IN, USA

PhD, Electrical and Computer Engineering, 2010-2016

Topic: Video and Image Processing (Thesis Advisor: Prof. Edward J Delp)



Birla Institute of Technology and Science (BITS), Pilani

B.E. (Hons.) Electrical and Electronics Engineering, 2005-2009

Profile Summary

- ❖ Extensive working experience of MPEG's H.264, HEVC, VVC video compression standards
- ❖ 20+ code contributions to AOM's VP9, AV1 open-source libraries towards codec optimizations
- ❖ Worked with video codec groups at Samsung, Dolby Labs, Qualcomm and Ittiam Systems
- ❖ Deep understanding and R&D contributions in High Dynamic Range (HDR) imaging
- ❖ Granted 10+ patents and published over 30 technical articles in video/image processing domain
- ❖ Invited talks at various international, national conferences & forums

NOMINATION PROFORMA

ELECTRONICS & IT DEPARTMENT

Committee Name:

Committee Number: LITD

Name of Organization: Samsung R&D Institute India-Bangalore (SRI-B)

NOTE:- BIS aims to work towards gender balance at all levels (including leadership positions) in all Committees in line with the UN Sustainable Development Goal 5 and UN Declaration on Gender Responsive Standards. Organizations are encouraged to nominate woman representatives as Principal/ Alternate Members. The provision of a second alternate member is also available to organizations subject to the condition that the additional alternate member is a young professional below 37 years of age or a woman representative.

Principal Member

Name	Dr. Balvinder Singh
Designation	Senior Director
General Interest	Multimedia, AI / ML, Computer Vision, Multi-modal Intelligence, AR/VR, & BlockChain
Address	No.2870, Phoenix Building, Bagmane Constellation Business Park Doddanakundi Circle Post, Outer Ring Rd, Doddanekundi, Marathahalli, Bengaluru, Karnataka 560037
Contact No.	9845271201
Fax	
E-mail	bs.saini@samsung.com

Alternate Member

Name	Raj Narayana Gadde
Designation	Staff Engineering Manager
General Interest	Multimedia, Compression, AI / ML, Computer Vision, Compute Architectures
Address	No.2870, Phoenix Building, Bagmane Constellation Business Park Doddanakundi Circle Post, Outer Ring Rd, Doddanekundi, Marathahalli, Bengaluru, Karnataka 560037
Contact No.	9886759620

Fax	
E-mail	raj.gadde@samsung.com

2nd Alternate Member (subject to the condition that the additional alternate member is a young professional below 37 years of age or a woman representative)

Name	Neeraj Jayant Gadgil
Designation	Senior Chief Engineer
General Interest	Multimedia Compression, AI / ML, Computer Vision
Address	No.2870, Phoenix Building, Bagmane Constellation Business Park Doddanakundi Circle Post, Outer Ring Rd, Doddanekundi, Marathahalli, Bengaluru, Karnataka 560037
Contact No.	9975217430
Fax	
E-mail	neeraj.g2@samsung.com

3rd Alternate Member (subject to the condition that the additional alternate member is a young professional below 37 years of age or a woman representative)

Name	
Designation	
General Interest	
Address	
Contact No.	
Fax	
E-mail	

NOTE: Please attach your profile of half a page in brief in addition to this document.