CURRICULUM VITAE

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PRESENT EMPLOYMENT & CONTACT INFORMATION

Name:	**Nileshsingh V. Thakur** (Ph.D. in CSE from VNIT, Nagpur)	**Total Experience: 28.8 Yrs** **Publications: 91**

Designation:	PROFESSOR
Department:	COMPUTER TECHNOLOGY
College Name and Address:	YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, WANADONGRI, HINGNA ROAD, NAGPUR, PIN-441110, MAHARASHTRA, INDIA. *(Joined on 27 Nov. 2021)*
Date of Birth:	12 November 1968
Contact No.:	(+91)
E-mail Id:	thakurnisvis@rediffmail.com
LinkedIn Id:	dr-nileshsingh-v-thakur-21730812a
ORCID Id:	0000-0002-7097-0868
SCOPUS Id:	16643967900
WoS R Id:	J-6902-2013

EDUCATION

Degree/Examination	Board/Institute/University	Month & Year	Percentage
Ph.D. *(Computer Science Engineering)*	Visvesvaraya National Institute of Technology (VNIT), Nagpur, INDIA	Feb. 2010	Not Applicable
M.E. *(Computer Science & Engineering)*	College of Engineering, Badnera, INDIA (Sant Gadge Baba Amravati University, Amravati, INDIA)	Oct. 2005	74.16 %
B.E. *(Computer Engineering)*	Government College of Engineering, Amravati, INDIA (Sant Gadge Baba Amravati University, Amravati, INDIA)	Nov. 1992	64.22 %
HSC	MSBSHSE (Div. Board, Nagpur), INDIA	Mar. 1986	84.50 %
SSC	MSBSHSE (Div. Board, Nagpur), INDIA	Mar. 1984	62.57 %

RESEARCH EXPERIENCE

Ph.D. Thesis: Performance Enhancement of Fractal Encoding using Spiral Architecture for Color Images

Advisor/Supervisor: *Dr. Omprakash G. Kakde* **Duration:** *Jul. 2006 – Aug. 2009*

The research work carried out includes suggesting the use of spiral architecture to enhance the performance of fractal encoding when applied to color images. Since no hardware support is available for spiral architecture, suitable mapping scheme, Pseudo model, is developed on existing square architecture. A new mapping scheme is proposed which gives better quality generated images as compared to the quality of generated images we get when mapping schemes reported in literature are used.

M.E. Dissertation: A Hybrid Approach for Color Image Compression

Advisor/Supervisor: *Dr. Mir Sadique Ali* **Duration:** *Jul. 2004 – Jun. 2005*

The research work carried out includes the suggesting the hybrid method which is a combination of the fractal encoding and hierarchical color block coding for the color image compression.

CURRICULUM VITAE

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EXPERIENCE SUMMARY   (Total: 28 Years 9.03 Months)

Teaching (UG)	Teaching (PG)	Administrative	Industry	Post-PhD
27 Y 6.41 M	14 Y 5.82 M	16 Y 2.39 M	1 Y 1.33 M	11 Y 10.8 M

TEACHING EXPERIENCE   (27 Years 7.7 Months)

Details are provided in **(ANNEXURE-A)**

Designation and Institute/Organization	Appointment Type	From-To	Duration (Y & M)
PROFESSOR, *Dept. of Computer Science and Engineering, Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Permanent*	*22 Nov. 2019 To 26 Nov. 2021*	**2 Y 0.1 M**
PRINCIPAL , *Nagpur Institute of Technology, Nagpur, India.*	*Permanent*	*26 Dec. 2017 To 21 Nov. 2019*	**1 Y 10.9 M**
PROFESSOR, *Dept. of Computer Science and Engineering, Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Permanent*	*8 Aug. 2012 To 23 Dec. 2017*	**5 Y 5 M**
ASSOCIATE PROFESSOR, *Dept. of Computer Science and Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*	*Permanent*	*1 Apr. 2010 To 7 Aug. 2012*	**2 Y 4.2 M**
ASSISTANT PROFESSOR, *Dept. of Computer Science and Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*	*Permanent*	*20 Feb. 2008 To 31 Mar. 2010*	**2 Y 1.4 M**
ASSISTANT PROFESSOR, *Dept. of Computer Science and Engineering, G. H. Raisoni College of Engineering, Nagpur, India.*	*Permanent*	*14 May. 2007 To 18 Feb. 2008*	**9.1 M**
LECTURER, *Dept. of Computer Science and Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*	*Permanent*	*29 Jul. 2005 To 14 May. 2007*	**1 Y 10 M**
LECTURER, *Dept. of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur, India.*	*Permanent*	*15 Jan. 1998 To 28 Jul. 2005*	**7 Y 6.4 M**
LECTURER, *Shubhankar Shikshan Sanstha, Amravati, India.*	*Permanent*	*1 Dec. 1995 To 1 Dec. 1997*	**2 Y 0 M**
LECTURER, *Dept. of Computer Engineering, College of Engineering & Technology, Jalgaon, India.*	*Ad-hoc*	*1 Aug. 1994 To 15 Jun. 1995*	**10.5 M**
LECTURER, *Dept. of Computer Engineering, College of Engineering & Technology, Jalgaon, India.*	*Ad-hoc*	*26 Aug. 1993 To 30 Jun. 1994*	**10.1 M**

ADMINISTRATIVE EXPERIENCE   (16 Years 2.39 Months)

Designation and Institute/Organization	Responsibility	From-To	Duration (Y & M)
Principal, *Nagpur Institute of Technology, Nagpur, India.*	*Overall administration of the Institute*	*Dec. 2017-Nov. 2019*	**1 Y 11 M**
Principal (In-Charge), *Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Overall administration of the Institute*	*May. 2017-Dec. 2017*	**7 M**
Dean (PG Studies), *Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Acad. and admin. responsibilities of Four PG Programmes, M.E. (CSE, CE, EEE, CEM)*	*Jan. 2013-May. 2017*	**4 Y 4 M**
Head, *Dept. of CSE, Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Academic and administrative responsibilities of UG Department*	*Aug. 2015-May. 2017*	**1 Y 9 M**
Faculty In-charge (Library), *Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Monitor the purchase of books*	*Jan. 2013-Dec. 2015*	**2 Y 11 M**
Faculty In-charge (Discipline), *Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Monitor and control the discipline in campus*	*Jan. 2013-Dec. 2015*	**2 Y 11 M**
Advisory Board Member (IEDC), *Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Guide and monitor the progress of Innovation and Entrepreneurship Cell (IEDC)*	*Sep. 2015-Dec. 2017*	**2 Y 3 M**
Project and Seminar In-charge, *Dept. of CSE, Prof Ram Meghe College of Engineering and Management, Badnera, India.*	*Monitor and control the project and seminar activities*	*Aug. 2012-Jul. 2013*	**11 M**
M.Tech (CSE) Coordinator, *Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*	*Overall administration of the PG programme: M.Tech. (CSE)*	*Jul. 2010-Jul. 2012*	**2 Y 1 M**
Associate Dean (R & D), *Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*	*Monitor and control research activities*	*Dec. 2009-Apr. 2011*	**1 Y 5 M**
Head, PG Department, *G. H. Raisoni College of Engineering, Nagpur, India.*	*Overall administration of PG Programmes: M.Tech. (CSE), M.E. (WCC) and M.E. (ESC)*	*May. 2007-Feb. 2008*	**9 M**
Assistant TPO, *Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*	*Monitor and Control the Training and Placement activities*	*Jul. 2006-May. 2007*	**10 M**

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INDUSTRIAL EXPERIENCE   (1 Year 1.33 Months)

Designation and Institute/Organization	Appointment Type	From-To	Duration (Y & M)
Programmer, *Computer World, Amravati, India.*	*Permanent*	*15 Jul. 1992 To 25 Aug. 1993*	**1 Y 1 M**

RESEARCH RECOGNITION

Details

- **Web of Science (SCIE/ESCI/SCOPUS):** Documents- **22**, Citations- **54**, h-index- **4**.

  https://publons.com/researcher/2610742/nileshsingh-v-thakur/publications/

- **SCOPUS**: Documents- **27**, Citations- **92**, h-index- **5**.

  https://www.scopus.com/authid/detail.uri?authorId=16643967900

- **Google Scholar**: Documents- **86**, Citations- **601**, h-index- **14**, i-10 index- **19**.

  https://scholar.google.co.in/citations?user=xZbSxmsAAAAJ&hl=en

- **ResearchGate:** Documents- **85**, Citations- **390**, Reads: **31237.**

  https://www.researchgate.net/profile/Nileshsingh-Thakur

PUBLICATION SUMMARY   (91)

International Journals (43)					International Conference/Workshop (35)		
SCIE	SCOPUS	ESCI and WEB OF SCIENCE	SCIE, SCOPUS, ESCI, WEB OF SCIENCE	Peer Reviewed	SCOPUS	WEB OF SCIENCE	Peer Reviewed
3	7	7	12	31	20	12	15

Edited Books (03)		Book Chapters (04)		National Journal (01)	National Conference (05)
TMH	SPRINGER	SCOPUS	Peer Reviewed	Peer Reviewed	Peer Reviewed
01	02	01	03	01	05

INTERNATIONAL JOURNAL PAPERS   (43)

Details are provided in **(ANNEXURE-B)**

Some PROMINENT PUBLICATION details is as follows	Indexing
1. "Modified Three-Step Search Block Matching Motion Estimation and Weighted Finite Automata based Fractal Video Compression", *International Journal of Interactive Multimedia and Artificial Intelligence*, 4(4), 2017, pp. 27-39.	**SCIE**, *WoS*

2. "Object Detection and Tracking using Modified Diamond Search Block Matching Motion Estimation Algorithm", *International Journal of Interactive Multimedia and Artificial Intelligence*, 5(1), 2018, pp. 73-85.	**SCIE**, *WoS*
3. "A Review on Block Matching Motion Estimation and Automata Theory based Approaches for Fractal Coding", *International Journal of Interactive Multimedia and Artificial Intelligence*, 4(2), 2016, pp. 91-104.	**SCIE**, *WoS*
4. "Color Image Compression with Modified Fractal Coding on Spiral Architecture", *Journal of Multimedia*, 2(4), August 2007, pp. 55-66.	**SCOPUS**
5. "A Review and an Approach for Object Detection in Images", *International Journal of Computational Vision and Robotics*, 7(1/2), 2017, pp. 196-237.	**SCOPUS**
6. "Fractal Coding Based Video Compression using Weighted Finite Automata", *International Journal of Ambient Computing and Intelligence*, 9(1), 2018, pp. 115-133.	**SCOPUS**, *ESCI, WoS*
7. "Mitigation Mechanism Against Denial of Service Attacks", *International Journal of Pure and Applied Mathematics*, 118(16), 2018, pp. 495-510.	**SCOPUS**
8. "A Review on Moving Object Detection and Tracking Methods in Video", *International Journal of Pure and Applied Mathematics*, 118(16), 2018, pp. 511-526.	**SCOPUS**
9. "Adaptive and Dynamic Routing Protocol for Mobile Wireless Sensor Network", *International Journal of Pure and Applied Mathematics*, 118(16), 2018, pp. 527-542.	**SCOPUS**
10. "Bounded, Multidimentional, Integrated Memetic Evolution for Character Recognition Based on Predictive Elimination Theory and Optimization Techniques", *International Journal of Applied Metaheuristic Computing*, 10(1), 2019, pp. 62-74.	**SCOPUS**, *ESCI, WoS*
11. "An Approach to Image Compression with Partial Encryption without sharing the Secret Key", *International Journal of Computer Science and Network Security*, 12(7), July 2012, pp. 1-6.	**ESCI**, *WoS*
12. "An Improved Approach of Block Matching Algorithm for Motion Vector Estimation", International Journal of Information Retrieval Research, 8(1), 2018, pp. 38-56.	**ESCI**, *WoS*

INTERNATIONAL CONFERENCE/WORKSHOP PAPERS   (35)

Details are provided in **(ANNEXURE-B)**

Some PROMINENT PUBLICATION details is as follows	Indexing
1. "Fractal Color Image Compression on a Pseudo Spiral Architecture", *2nd IEEE Int. Conf. on Cybernetics & Intelligent Systems (CIS 2006)*, Bangkok, Thailand, 7-9 June, 2006, **IEEE Explore**, pp. 1-6.	**SCOPUS,** *WoS*
2. "A Novel Compression Technique for Color Image Database", *14th IEEE Int. Conf. on Advanced Computing and Communication (ADCOM)*, 20-23 December, 2006, NITK, Surathkal, India, **IEEE Explore**, pp. 240-243.	**SCOPUS,** *WoS*
3. "Color Image Compression on Spiral Architecture using optimized domain blocks in Fractal Coding", *4th IEEE Int. Conf. on Information Technology: New Generations (ITNG 2007)*, Las Vegas, Nevada, USA, 2-4 April, 2007, **IEEE Explore**, pp. 234-242.	**SCOPUS,** *WoS*
4. "Fractal Video Coding Using Modified Three-step Search Algorithm for Block-matching Motion Estimation", *Int. Conf. on Computation Vision and Robotics (ICCVR-2014)*, IIMT, Bhubaneshwar, India, 9-10 August, 2014, **SPRINGER** AISC Vol. 332, pp. 151-162.	**SCOPUS,** *WoS*

5. "Memetic Algorithm Used in Character Recognition", *5th Int. Conf. on Swarm, Evolutionary, and Memetic Computing (SEMCCO-2014)*, Bhubaneshwar, India, 18-20 December, 2014, **SPRINGER** LNCS Vol. 8947, pp. 636-646. — **SCOPUS,** *WoS*

6. "Overview of Cluster Based Routing Protocols in Static and Mobile Wireless Sensor Networks", *2nd Int. Conf. on Information Systems Design and Intelligent Applications (INDIA-2015)*, Kalyani, Kolkata, India, 8-9 January, 2015, **SPRINGER** AISC Vol. 339, pp. 619-626. — **SCOPUS,** *WoS*

7. "Color Video Compression Based on Fractal Coding Using Quadtree Weighted Finite Automata", *2nd Int. Conf. on Information Systems Design and Intelligent Applications (INDIA-2015)*, Kalyani, Kolkata, India, 8-9 January, 2015, **SPRINGER** AISC Vol. 340, pp. 649-658. — **SCOPUS,** *WoS*

8. "Fusion Based Image Retrieval Using Local and Global Descriptor", *3rd Int. Conf. on Next Generation Computing Technologies (NGCT 2017)*, Dehradun, Uttarakhand, India, 30-31 October, 2017, **SPRINGER** CCIS Vol. 828, pp. 612-627. — **SCOPUS**

9. "V-HOG: Towards Modified Query Based Image Retrieval", *3rd Int. Conf. on Next Generation Computing Technologies (NGCT 2017)*, Dehradun, Uttarakhand, India, 30-31 October, 2017, **SPRINGER** CCIS Vol. 828, pp. 628-639. — **SCOPUS**

10. "Performance comparison of clustering algorithms based Image Segmentation on Mobile Devices", *Int. Conf. on Cognitive Informatics & Soft Computing (CISC-2017)*, Hyderabad, India, 20-21, December, 2017, **SPRINGER** AISC Vol. 768, pp. 581-591. — **SCOPUS**

11. "An Enhanced Approach to Memetic Algorithm used for Character Recognition", *Int. Conf. on Cognitive Informatics & Soft Computing (CISC-2017)*, Hyderabad, India, 20-21, December, 2017, **SPRINGER** AISC Vol. 768, pp. 593-602. — **SCOPUS**

12. "Cluster-Based Adaptive and Dynamic Routing Protocol to Enhance the Performance of Wireless Sensor Network", *3rd Int. Congress on Information and Communication Technology (ICICT-2018)*, London, 27-28, February, 2018, **SPRINGER** AISC Vol. 797, pp. 351-359 — **SCOPUS,** *WoS*

13. "Mitigation Against Denial-of-Service Flooding and Malformed Packet Attacks", 3rd *Int.* Congress on Information and Communication Technology (ICICT-2018), London, 27-28, February, 2018, **SPRINGER** AISC Vol. 797, pp. 335-342. — **SCOPUS,** *WoS*

14. "Best Bound Population-Based Local Search for Memetic Algorithm in View of Character Recognition", *3rd Int. Congress on Information and Communication Technology (ICICT-2018)*, London, 27-28, February, 2018, **SPRINGER** AISC Vol. 797, pp. 343-350. — **SCOPUS,** *WoS*

15. "IP Address-Based Mitigation Against Denial-of-Service Flooding Attacks", *Int. Conf. on Information and Communication Technology for Intelligent Systems (ICTIS-2018)*, Ahemdabad, India, 06-07, April, 2018, **SPRINGER** SIST Vol. 107, pp. 377-389 — **SCOPUS**

16. "An Overview of Image Recognition and Retrieval of Clothing Items", *Int. Conf. on Research in Intelligent and Computing in Engineering (RICE-2018)*, San Salvador, El Salvador, 22-24 August, 2018, **IEEE Explore**, pp. 1-6. — **SCOPUS,** *WoS*

17. "A review on fractal compression and motion estimation techniques", *Int. Conf. on Research in Intelligent and Computing in Engineering (RICE-2018)*, San Salvador, El Salvador, 22-24 August, 2018, **IEEE Explore**, pp. 1-6. — **SCOPUS,** *WoS*

18. "Information Retrieval using Latent Semantic Analysis", *3rd Int. Conf. on Smart Trends for Computing and Communications (SmartCom 2019)*, Bangkok, Thailand, 24-25 January, 2019, **SPRINGER** SIST Vol. 165, pp. 393-404. — **SCOPUS**

19. "An Overview on Privacy Preservation and Public Auditing on Outsourced Cloud Data", *3rd Int. Conf. on Smart Trends for Computing and Communications (SmartCom 2019)*, Bangkok, Thailand, 24-25 January, 2019, **SPRINGER** SIST Vol. 165, pp. 463-470. — **SCOPUS**

20. "Multi-level Thresholding and Quantization for Segmentation of Color Images", *3rd Int. Conf. on Smart Trends for Computing and Communications (SmartCom 2019)*, Bangkok, Thailand, 24-25 January, 2019, **SPRINGER** SIST Vol. 165, pp. 487-496.	**SCOPUS**

NATIONAL JOURNAL & CONFERENCE/WORKSHOP (01 + 05)

Paper Details

1. "Optimizing the Response of Process System by using Artificial Neural Network", *Journal of Pradushan Nirmulan*, 3(3), 2006, pp. 54-57.

2. "A Novel Approach to Face Detection", *National Level Conference sponsored by Ministry of Communication and Information Technology GOI*, ACOE, Hosur, India, 6 March, 2006.

3. "Building Peer to Peer Based Multimedia", *National Level Conference sponsored by Ministry of Communication and Information Technology GOI*, ACOE, Hosur, India, 6 March, 2006.

4. "Object Retrieval System for 3D Object Database through the Optimization of Database using Aspects & Prototypes", *National Level Conference sponsored by Ministry of Communication and Information Technology GOI*, ACOE, Hosur, India, 6 March, 2006.

5. "Study of Addressing Methodologies in Sensor Networks", *National Conference on Information and Emerging Technologies*, IET-Bhaddal, Ropar, Punjab, 7-8, Sept., 2007.

6. "Segmentation-The first step for CBIR", *National Seminar on "Achieving World Class Excellence : Education & Industry", AWCE – 2004, sponsored by AICTE and IE (I)*, YCCE, Nagpur, 26-28, Nov., 2004.

BOOKS & BOOK CHAPTERS (03 + 04)

Details are provided in **(ANNEXURE-B)**

PUBLICATION details is as follows	Indexing
1. Edited Book: Proceedings of Indian Conference on Computer Vision, Graphics, Image and Video Processing (ICCVGIVP 2009), Nagpur, India. ISBN (13): 978-0-07-014799-7, **Publisher: Tata McGraw-Hill Publishing Company Limited, New Delhi (2009)**	
2. Edited Book: Smart Trends in Computing and Communications Proceedings of (SmartCom 2019), ISBN: 978-981-15-0076-3, 978-981-15-0077-0, SIST Vol. 165, **Publisher: SPRINGER, Singapore (2020)**	**SCOPUS**
3. Edited Book: Information and Communication Technology for Competitive Strategies (ICTCS 2020), ISBN: 978-981-16-0739-4, 978-981-16-0738-7, Vol. 191, **Publisher: SPRINGER, Singapore (2021)**	**SCOPUS**
4. Book Chapter: Coronavirus Outbreak: Multi-Objective Prediction and Optimization, *Book Title: Intelligent Systems and Methods to Combat Covid-19, ISBN: 978-981-15-6571-7, pp. 19-28,* **Publisher: SPRINGER, Singapore (2020)**	**SCOPUS**
5. Book Chapter: Review on Image Representation Compression and Retrieval Approaches, *Book Title: Technological Innovations in Knowledge Management and Decision Support, ISBN13:9781522561644, pp. 203-231,* **Publisher: IGI Global, USA (2018)**	**InfoSci**

6. Book Chapter: Possible Approaches for Character Recognition With Existing Methodologies and State-of-the-Art Techniques, *Book Title: Technological Innovations in Knowledge Management and Decision Support, ISBN13:9781522561644, pp. 232-246,*

Publisher: IGI Global, USA (2018)

InfoSci

7. Book Chapter: Wireless Sensor Networks: Concepts, Analysis, Routing, and Applications, *Book Title: Technological Innovations in Knowledge Management and Decision Support, ISBN13:9781522561644, pp. 247-276,*

Publisher: IGI Global, USA (2018)

InfoSci

RESEARCH GUIDANCE   (Ph.D.: Awarded - 6 & Submitted – 2)

Title of Ph.D. Thesis, Name of Scholar, and Name of University	Status
1. Fractal Coding based Color Video Compression using Automata Theory and Block Matching Motion Estimation *(Scholar Name: Shailesh D. Kamble) (RTM Nagpur University, Nagpur)*	**Awarded**
2. Adaptive and Dynamic Routing Protocol for Mobile Wireless Sensor Network *(Scholar Name: Sachin R. Jain) (SGB Amravati University, Amravati)*	**Awarded**
3. Clustering based Image Segmentation in Support of Image Processing on Mobile Devices *(Scholar Name: Hemant R. Turkar) (SGB Amravati University, Amravati)*	**Awarded**
4. Image Representation and Compression in view of Retrieval on Smart Cell Devices *(Scholar Name: Lalit B. Damahe) (SGB Amravati University, Amravati)*	**Awarded**
5. Performance Enhancement of Detection and Mitigation Mechanisms for Distributed Denial of Service Attacks *(Scholar Name: Arvind R. Bhagat) (RTM Nagpur University, Nagpur)*	**Awarded**
6. Performance Enhancement of Various Parameter of Memetic Algorithm with Application to Character Recognition *(Scholar Name: Rashmi R. Welekar) (RTM Nagpur University, Nagpur)*	**Awarded**
7. Multi-level Automatic Thresholding and Data Fusion Technique for Segmentation of Color Images *(Scholar Name: Shailesh T. Khandare) (SGB Amravati University, Amravati)*	**Submitted**
8. Design of Image Restoration and Compression Mechanism based on Decomposition *(Scholar Name: Saurabh A. Shah) (SGB Amravati University, Amravati)*	**Submitted**

RESEARCH GUIDANCE   (M.Tech./M.E.: Awarded - 28)

Title of M.E. Dissertation, Name of Scholar, and Name of University	Status
1. An Approach for Load Balancing in Wireless Sensor Network *(Scholar Name: Dipak W. Wajgi) (RTM Nagpur University, Nagpur)*	**Awarded**
2. Image Edge Detection based on Soft Computing Approach *(Scholar Name: Pushpajit A. Khaire) (RTM Nagpur University, Nagpur)*	**Awarded**

3. An Approach to Image Compression and Encryption **Awarded**
(Scholar Name: Abdul Razzaque Abdul Sattar) (RTM Nagpur University, Nagpur)

4. A Soft Computing Approach for Image Filtering **Awarded**
(Scholar Name: Sonali R. Mahakale) (RTM Nagpur University, Nagpur)

5. An Approach for Mobile Sensor Network Deployment **Awarded**
(Scholar Name: Mayur C. Akewar) (RTM Nagpur University, Nagpur)

6. Harmonic-Aware Scheduling For Fixed-Priority Real-Time Systems **Awarded**
(Scholar Name: Ashwini G. Ingale) (SGB Amravati University, Amravati)

7. Matching Graph Construction for Image Collections **Awarded**
(Scholar Name: Nilu G. Kewalramani) (SGB Amravati University, Amravati)

8. An Approach for Object detection using Steiner tree **Awarded**
(Scholar Name: Kartik U. Sharma) (SGB Amravati University, Amravati)

9. Access Control in Distributed Cloud Computing **Awarded**
(Scholar Name: Nilesh G. Malkhede) (SGB Amravati University, Amravati)

10. Secure Image Transmission Approach using Transformation **Awarded**
(Scholar Name: Ankita P. Pande) (SGB Amravati University, Amravati)

11. Image Segmentation based on Different Variants of Thresholding **Awarded**
(Scholar Name: Ruchita N. Rathi) (SGB Amravati University, Amravati)

12. A Scheme for Encrypted Image Data Compression **Awarded**
(Scholar Name: Kalyani H. Deshmukh) (SGB Amravati University, Amravati)

13. A Framework for Joint Encryption and Watermarking of Image **Awarded**
(Scholar Name: Akshay S. Patharkar) (SGB Amravati University, Amravati)

14. Self Similarity based Image Segmentation **Awarded**
(Scholar Name: Shraddha Jaiswal) (SGB Amravati University, Amravati)

15. An Approach for Feature Descriptor in view of CBIR **Awarded**
(Scholar Name: Chanchal Sanap) (SGB Amravati University, Amravati)

16. A Model for Medical Image Restoration in view of Wireless Data Transmission **Awarded**
(Scholar Name: Neha Gulhane) (SGB Amravati University, Amravati)

17. Region of Interest based Medical Image Compression **Awarded**
(Scholar Name: Syed Sohail Faizan Syed M.) (SGB Amravati University, Amravati)

18. Watermarking based Tampered Medical Image Detection in Wireless Data Transmission **Awarded**
(Scholar Name: Neha S. Jogi) (SGB Amravati University, Amravati)

19. An Approach for Secured Medical Image Data and Information Transmission **Awarded**
(Scholar Name: Pallavi S.Lunge) (SGB Amravati University, Amravati)

20. Solving Min. Steiner Tree using Modified Intelligent Water Drop Algorithm **Awarded**
(Scholar Name: Renu K. Pawar) (SGB Amravati University, Amravati)

21. Image Segmentation based on Graph Theory and Threshold **Awarded**
(Scholar Name: Vikramsingh R. Parihar) (SGB Amravati University, Amravati)

22. Steiner tree based Image Segmentation **Awarded**

(Scholar Name: Shehal B. Ranit) (SGB Amravati University, Amravati)

23. Weighted Substructure Mining for Image Analysis **Awarded**

(Scholar Name: Roshni S. Nage) (SGB Amravati University, Amravati)

24. Graph Kernels based Image Classification **Awarded**

(Scholar Name: Shruti S. Kulkarni) (SGB Amravati University, Amravati)

25. An Approach for Image Encryption **Awarded**

(Scholar Name: Jyoti K. Bawane) (SGB Amravati University, Amravati)

26. Recovery of Data from Fiddle Image using Watermarking **Awarded**

(Scholar Name: Manoj R. Dudhe) (SGB Amravati University, Amravati)

27. Transformation based Image Data Compression **Awarded**

(Scholar Name: Pratiksha P. Nawade) (SGB Amravati University, Amravati)

28. Image Enhancement using Nature-inspired Computing **Awarded**

(Scholar Name: Ankita D. Naikele) (SGB Amravati University, Amravati)

PATENTS

Patent Details

1. Patent No.- 2021101012: (14 April 2021)

A System for Translating Sign Language into Speech and Vice-versa,

Granted by Australian Government IP Australia, on 14 April 2021.

2. Patent No.- 2021100893: (14 April 2021)

An IOT based Forest and Wildlife Conservation System and a Method thereof,

Granted by Australian Government IP Australia, on 14 April 2021.

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Copyright Details

1. Comparison of Edge Detectors (10 March 2016)

URL: *http://in.mathworks.com/matlabcentral/fileexchange/40005-comparison-of-edge-detectors*

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URL: ***http://in.mathworks.com/matlabcentral/fileexchange/view_license?file_info_id=40005***

2. Measures of Edge Detection (8 December 2016)

URL: *http://in.mathworks.com/matlabcentral/fileexchange/52205-measures-of-edge-detection*

View License/Copyright

URL: ***http://in.mathworks.com/matlabcentral/fileexchange/view_license?file_info_id=52205***

RESEARCH PROJECT EVALUATION

Evaluation Details	Level
1. Invited by **National Science Centre, Poland** to Review Research Proposal of PLN 739200 (@ Rs. 1.4 Crores).	**International**
2. Invited by Board of Research in Nuclear Sciences **(BRNS), Department of Atomic Energy, India** to Review Research Proposal of @ Rs. 23 Lakhs.	**National**

AWARDS/RECOGNITIONS

Award/Recognition Details	Level
1. International Research Excellence and Recognition Award by GR Foundation, awarded on 25 Feb., 2021 at ICICT 2021, Brunel University, London held digitally through Zoom.	**International**
2. Honorary Appreciation Award by GR Foundation, awarded on 24 Jan., 2019 at SmartCom 2019, Bangkok, Thailand.	**International**

PROFESSIONAL MEMBERSHIP

Membership Details

- **Affiliate Member, IEEE** Signal Processing Society's Image, Video And Multidimensional Signal Processing Technical Committee **(IVMSP Technical Committee)**.

- **Life Member** (LMISTE 27329, 1999), Indian Society for Technical Education **(ISTE)**.

- **Life Member** (63906, 2007), International Association of Engineers **(IAENG)**.

- **Life Member** (2011), International Association of Engineering and Management Education **(IAEME)**.

PRESENTATIONS   (25+)

Details are provided in **(ANNEXURE-C)**

Some PROMINENT PRESENTATION Details is as follows

1. Expert Talk: Data Science (25 Sept., 2021)

Online Workshop 'New Curriculum 2021-2022', 25 September 2021 organized by Pankaj Laddhd Institute of Technology and Management Studies, Buldhana with Board of Studies (BOS), Sant Gadge Baba Amravati University, Amravati held at

Pankaj Laddhd Institute of Technology and Management Studies, Buldhana, **India.**

2. Keynote Talk: Algorithms in Data Science and Analytics (11 Dec., 2020)

Fifth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2020), 11-12 Dec., 2020 organized by G. R. Foundation and technically sponsored by INTER YIT, Knowledge Chamber of Commerce and Industry, and SPRINGER held at

Jaipur, **India**.

3. Keynote Talk: Algorithms in Big Data Analytics (7 Dec., 2020)

AICTE sponsored Online Short Term Training Programme (STTP) on 'Machine Learning and Its Applications in Data Analytics' from 07-12 December 2020 held at

Shri Sant Gajanan Maharaj College of Engineering, Shegaon, **India.**

4. Expert Talk: Algorithms in Big Data Analytics and Deep Learning (13 Jul., 2020)

AICTE sponsored Online Short Term Training Programme (STTP) on 'Introduction to Big Data Analytics and Deep Learning' from 13-18 July 2020 held at

Prof Ram Meghe College of Engineering and Management, Badnera, **India.**

5. Expert Talk: Databases and Research Metrics (3 Jul., 2020)

AICTE-ISTE Approved One Week Online Short Term Training Program (Interdisciplinary) on "Research and Publication Ethics" from 29 June to 3 July, 2020 organized by Department of CSE, in association with Research Promotion Cell, PRMIT&R, Badnera and CSI, Amravati Chapter held at

Prof Ram Meghe Institute of Technology and Research, Badnera, **India.**

6. Keynote Talk: Image and Video Coding using Fractal Encoding and Spiral Architecture (5 Sept., 2020)

First International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020), 05-07 Sept., 2020 organized by Institute of Technology Gopeshwar and SPRINGER held at

Institute of Technology Gopeshwar, Uttarakhand, **India**.

7. Keynote Talk: Fractal Coding for Color Image and Research Scope (24 Jan., 2019)

International Conference on Smart Trends for Computing and Communications (SmartCom-2019), 24-25 Jan., 2019 organized by G. R. Foundation and technically sponsored by INTER YIT and SPRINGER held at

Hotel Novotel, Bangkok, **Thailand**.

8. Expert Talk: Role of Graph Theory in Network Security (20 Dec., 2018)

AICTE-ISTE approved and sponsored Induction/Refresher Programme on "Mitigation and Finding the Generic Solution for Network Security in the Wireless Domain", 17-22 Dec., 2018, held at

J.D. College of Engineering, Nagpur, **India**.

9. Keynote Talk: Image Computing-Recent Trends (7 Mar., 2014)

International Conference on Recent Trends in Computer Science & Engineering (ICETCSE-2014), 7-8 March 2014, held at

Babasaheb Naik College of Engineering, Pusad, **India**.

10. Expert Talk: Recent trends in image and Video Processing, Recent trends in image and Video Compression, Scope of Research in Image and Video Processing (28-29 Feb., 2012)

ISTE approved Short Term Training Programme on Image and Video Processing, 28-29 Feb. 2012, held at

Bapurao Deshmukh College of Engineering, Sewagram, Wardha, **India**.

11. Keynote Address: Recent trends in Image Processing (21 Jan., 2012)

National Conference on Information Technology and Computer Engineering, NCITCE-2012, 20-21 Jan., 2012, held at

Dr. Bhausaheb Nandurkar College of Engineering and Technology, Yavatmal, **India**.

12. Expert Talk: COBOL Programming Concepts, File Handling in COBOL Programming (24 Feb. & 5 Mar. 2012)

Workshop for Fourth Semester Students, 24 Feb. & 5 Mar., 2012, held at

Dr. Babasaheb Ambedkar College of Engineering & Research, Nagpur, **India**.

13. Expert Lecture: Image Compression Techniques (23 Apr., 2007)

ISTE Approved Short Term Training Programme on Image Processing, 23-27 Apr., 2007, held at

Babasaheb Naik College of Engineering, Pusad, **India**.

PROFESSIONAL SERVICE

Details are provided in **(ANNEXURE-C)**

Some PROMINENT PROFESSIONAL SERVICE Details

1. Editorial Board Member:

Journal of Applied Sciences. Information Technology Journal. Journal of Software Engineering. Journal of Artificial Intelligence. Singapore Journal of Scientific Research. Journal of Signal and Image Processing. International Journal of Computer Science and Applications. Undergraduate Academic Research Journal. Antardrishti IUD Journal of Interdisciplinary Research.

2. Reviewer for Journals:

IEEE Transactions on Image Processing. IET Image Processing. Elsevier Journal of System and Software. International Journal on Simulation, System, Science and Technology. International Information Technology Journal. International Journal of Applied Sciences. International Journal of Computing and Digital Systems.

3. Session Chair in International Conferences:

(WorldS4 2021), 29-30 Jul., 2021, London, UK, (ICTIS-2021), 23-24 Apr., 2021, Ahemadabad, India, (ICTCS-2020), 11-12 Dec., 2020, Jaipur, India, (WorldS4 2020), 27-28 Jul., 2020, London, UK, (ICT4SD-2020), 23-24 Jul., 2020, Goa, India, (ICTIS-2020), 15-16 May., 2020, Ahemadabad, India, (SmartCom-2019), 24-25 Jan., 2019, Bangkok, Thailand. (ICETRET-2016), 31-31 Mar. 2016, RGITR, Amravati. (ICISP-2015), 11-12 Dec. 2015, GHRCE, Nagpur. (ICESC-2014), 09-11 Jan. 2014, SRCOEM, Nagpur. (ICETET-2013), 16-18 Dec. 2013, GHRCE, Nagpur. (ITAC-2012), 1-3 Feb. 2012, YCCE, Nagpur.

4. Session Chair in National Conferences:

(NCIRTCSET-2014), 8-9 Dec. 2014, GHRCE, Nagpur. (NCITCE-2012), 20-21 Jan. 2012, BNCET, Yavatmal. (SPANDAN-2011), 25-26 Feb. 2010, YCCE, Nagpur. (NCICT-2010), 23-24 Dec. 2010, NYSSCE&R, Nagpur. (FRONTIER-2007), 18 Dec. 2007, BNCOE, Pusad.

5. Reviewer for Conferences:

(SMARTCOM-2019), Thailand. (CISC-2017), Hyderabad**.** (EMS-2011), Spain. (CIMSiM-2011), Malaysia. (ICETET-2009, 2010, 2011), Mauritius. (UKSIM-2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017), UK. (ISCI-2012), Malaysia.

COMMUNITY SERVICE

Details are provided in **(ANNEXURE-D)**

Some MAJOR EVENT Details

- Judge, Technical Paper Presentation event at RMCE for Women, Nagpur, Jan. 2011.
- Judge, National Technical Symposium at YCCE, Nagpur, Dec. 2010.
- Judge, C/C++ coding competition and Project Competition at NYSSCOER, Nagpur, Feb. 2010.
- Judge, Annual Technical Meet organized by Institution of Engineers (India), Oct. 2007.

- Judge, Technical Paper presentation event at KDKCOE, Nagpur, Mar. 2006.
- Judge, Software development competition at GHRCE, Nagpur, Mar. 2006.
- Judge, National level Technical Paper presentation event at KITS, Ramtek, Sep. 2005.

STTPs/WORKSHOPS/SEMINARS ATTENDED

Details are provided in **(ANNEXURE-D)**

Some MAJOR PROGRAMME Details

- IIC of MHRD's Innovation Cell, New Delhi, Entrepreneurship Online Sessions, 28 April - 22 May 2020.
- AICTE, India, Online workshop on Universal Human Values on the theme "Inculcating Universal Human Values in Technical Education", 13-17 May, 2020.
- RC, UD, Delhi and Ministry of HRD PMMM NMTT, Managing Online Classes and Co-creating MOOCS, 20 April – 06 May, 2020.
- SGBAU, Amravati, Curriculum Development Workshop, 14 Mar., 2020.
- MDIS University, Singapore, Technical Leadership Programme, 13-20 Jun., 2015.
- RTMNU, Nagpur, Curriculum Development Workshop, 8-9 Jun., 2006.
- IIT, Kanpur, India, Genetic Algorithms for Engineering Optimization, 26-29 Apr., 2006.
- ISTE India, Recent Trends in Networking, 11-15 Dec., 2007.
- AICTE & ISTE India, Developing Bioinformatics Computer Skills, 1-11 Jul., 2004.
- ISTE India, Data Warehousing and Mining, 17-29 Nov., 2003.
- AICTE & ISTE India, Computer / Internet Applications for Enrichment of Teaching / Learning Methods, 18 Jun. - 1 Jul., 2003.
- ISTE India, The Value Engineering- Methodology & Applications, 20 Feb.–2 Mar., 2002.
- ISTE India, JAVA-2 Programming, 3-14 Oct., 2000.

CONFERENCES/WORKSHOPS ORGANIZED

Details are provided in **(ANNEXURE-D)**

Conferences/Workshop Details

Technical Program Chair and Editor, Fifth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2020), *11-12 Dec., 2020, Jaipur, India.*

Technical Program Chair, Fourth International Conference on Smart Trends for Computing and Communications (SMARTCOM 2020), *23-24 January, 2020, Bangkok, Thailand.*

General Chair, Second International Conference on Cognitive Informatics & Soft Computing (CISC-2019), *9-10 April, 2019, Annamacharya Institute of Technology & Sciences, Rajampet , India.*

Technical Program Chair and Editor, Third International Conference on Smart Trends for Computing and Communications (SMARTCOM 2019), *24-25 January, 2019, Bangkok, Thailand.*

General Chair, First International Conference on Cognitive Informatics & Soft Computing (CISC-2017), *20-21 December, 2017, Vignana Bharathi Institute of Technology (VBIT), Hyderabad , India.*

Convener, Two Weeks Faculty Development Programme on "Entrepreneurship" *sponsored by NSTEDB, Department of Science and Technology, Government of India, New Delhi, 27 June, 2017 – 8 July, 2017, Prof Ram Meghe College of Engineering and Management, Badnera, India.*

Special Session Chair, International Conference on Emerging Trends in Engineering and Technology (ICETET-2010)*, 19-21 November, 2010, G. H. Raisoni College of Engineering, Nagpur, India.*

Coordinator, Workshop on Combinatorial Theories*, 3-4 July, 2009, Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*

Organizer and Editor, Indian Conference on Computer Vision, Graphics, Image, and Video Processing (ICCVGIVP-2009)*, 13-14 March, 2009, Shri Ramdeobaba College of Engg. and Management, Nagpur, India.*

Coordinator, Workshop on Combinatorial Theories*, 5-6 July, 2008, Shri Ramdeobaba College of Engineering and Management, Nagpur, India.*

Additional Information is provided in Annexure-A, Annexure-B, Annexure-C and Annexure-D.

DECLARATION

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.

Place: Nagpur

Date: 30/11/2021   **Nileshsingh V. Thakur**