Dr. Gyanendra Kumar Verma

Assistant Professor Grade-I

Department of Information Technology
National Institute of Technology Raipur
Raipur-492 010, INDIA
Email: gkverma.it@nitrr.ac.in, gyanendra@ [ieee.org] /
[acm.org]
Ph: +91-7404210632 (M)
http://nitrr.ac.in/viewdetails.php?q=it.gkverma
www.gkverma.in

Brief Bio

Dr. Gyanendra Kumar Verma is an Assistant Professor (Senior Grade) in the Department of Information Technology at the National Institute of Technology (NIT) Raipur, India. He holds a Ph.D. and M. Tech. in Information Technology from the Indian Institute of Information Technology, Allahabad (IIITA), and a B.Tech. in Information Technology from Harcourt Butler Technical University, Kanpur. With over twelve years of experience in teaching and research, Dr. Verma specializes in Affective Computing, Digital Image Processing, Medical Imaging, Natural Language Processing, and Human-Computer Interaction. His research contributions include applications of Wavelet Transform in Medical Imaging and Computer Vision, with numerous publications in high-impact journals and conferences. He has served on several international conference committees and has organized workshops and academic events, including the MIND conference series. He is actively engaged in mentoring research scholars and has collaborated on interdisciplinary projects. Dr. Verma has been recognized among the World's Top 2% Scientists by Stanford University (2023) and holds senior memberships in IEEE and ACM. He has delivered expert talks on Affective Computing, Deep Learning, and Computational Intelligence. His editorial and reviewing engagements include contributions to journals published by IEEE, Springer, Elsevier, and other leading publishers. For more details on his work, visit www.gkverma.in.

Education

- **Ph.D. (Information Technology)** -2016, Department of Information Technology, Indian Institute of Information Technology Allahabad, India.

  Thesis Title: *Multimodal Fusion Framework Using Multiresolution Analysis for Emotion Recognition and Prediction*
  Supervisor: *Prof. (Dr.) Uma Shanker Tiwari*

- **M. Tech. (Information Technology)** - 2009, Department of Information Technology, Indian Institute of Information Technology Allahabad, Allahabad, India. (First Div.)

  Thesis Title: *Speaker Identification System using Wavelet Transform*

  Supervisor: *Prof. (Dr.) Uma Shanker Tiwari*

- **B. Tech. (Information Technology)** - 2006, Harcourt Butler Technical University (formerly H. B. T. I.) Kanpur, Uttar Pradesh, India (First Div.)

Present Position

- Assistant Professor (senior grade) at Department of Information Technology, National Institute of Technology Raipur, Chhattisgarh - 492 010 (26th October 2021- till now)

Professional Experience

- Assistant Professor at Department of Computer Engineering, National Institute of Technology Kurukshetra, Haryana - 136119 (20th Feb. 2013- 25th October 2021)
- Assistant Professor at Department of Computer Science & Engineering, National Institute of Technology, Silchar, Assam (Aug. 2012 – Feb. 2013)

Experience in Research

- Research in Indian Institute of Information Technology, Allahabad: Worked as a Doctoral Research fellow in the Department of Information Technology
- Research in Indian Institute of Information Technology, Allahabad: Worked as a Post-graduate Scholar in the Department of Information Technology

Research Interests

- Affective Computing
- Digital Image Processing and Computer Vision
- Medical Imaging
- Natural Language Processing
- Biometrics
- Speech Processing
- Human-Computer Interaction

Honours, Awards and Professional Activities

- He is listed in the **World's Top 2% of Scientists** in the study carried out by Stanford University, USA, in 2025 and 2023.
- Elevated to senior grade member of IEEE, Dec. 2020
- Elevated to senior grade member of ACM, USA, 2021
- Awarded as **Outstanding Mentor** in National Level Project Competition (PROWAR-2016) on 30th April 2016 organized by the School of Computing Science and Engineering, Galgotias University, Greater Noida, India
- Achieved 3rd Rank in Uttar Pradesh State Engineering Admission Test (UPSEAT-2003)
- GATE-2007 qualified
- MHRD scholarship/fellowship holder during M. Tech. and Ph.D.
- Editorial advisory board member – Handbook of Research on Political Activism in the Information Age, IGI Global, 2014
- Editorial Advisory Board member – Political Campaigning in the Information Age, IGI Global, 2014
- Editorial advisory board member – Gamification for Human Factors Integration: Social, Education, and Psychological Issues, IGI Global, 2014
- Editorial advisory board member – Transforming Politics and Policy in the Digital Age, IGI Global, 2014

Professional Memberships

- IEEE Senior Membership (No.91237448)
- ACM Senior Membership (No.4311750)
- IEEE Young Professionals
- IEEE Computer Society Technical Committee on Multimedia Computing
- IEEE Computational Intelligence Society Membership
- Member of International Association of Computer Science and Information Technology – IACSIT (Singapore)
- Member of the International Association of Engineers (IAENG)

Expert Talk Delivered

- Served as an expert evaluator for project proposals submitted under AICTE Research & Innovation Development Schemes (Sept'25)
- Delivered expert talk on Generative AI: Revolutionizing the future from Machine Learning to AI Agents at One Week Faculty Development Program on Machine Learning for

Computer Vision & Image Processing under the banner of Electronics and ICT academy at National Institute of Technology Patna during 12th – 18th May, 2025

- Delivered expert talk "Affective Computing in Health Informatics" on Hands-on Training on Computational Intelligence for Health Informatics and Wearable Device Data Analysis on 30th July 2023 at Department of Computer Science and Engineering, NIT Silchar, Assam, India
- Chaired two technical sessions in CocoNet 2019 (An International Conference sponsored by ACM) from 18 - 21 Dec. 2019 at the Indian Institute of Information Technology and Management Trivandrum, Kerala.

    1. CoCoNet-S2: Sixth Symposium on Computer Vision and the Internet (VisionNet'19)

    2. CoCoNet-S10: Main Track - Computer Vision, Image Processing, Machine Learning and Pattern Recognition (Regular Papers)

- NBA visit to Government Engineering College Bikaner under TEQIP-III tuning program during 6-8 Sept. 2019
- TEQIP-III sponsored a workshop on "Outcome-based accreditation for Undergraduate Engineering programs" on 16-17th March 2018 at Government Engineering College Bikaner, India
- "Deep Convolutional Neural Network" TEQIP-III Sponsored STTP on "Computational Intelligence & Cloud Computing (CICC-2017)" 26th - 30th December 2017 in Department of Information Technology, National Institute of Technology Raipur, India
- "Deep Learning: Theory and Applications" One Week STTP on "Soft Computing Techniques & Robotics" 4th - 8th September 2017 in Department of Information Technology, National Institute of Technology Raipur, India
- "Multi-resolution Analysis of Signals" Summer School on Image Processing, 8-12 June 2015 Department of Computer Engg. NIT Kurukshetra
- "Affective Computing: HCI Perspective" Winter School on Computational Intelligence in Pattern Recognition, 12 -17th Dec. 2016 Department of Computer Engg. NIT Kurukshetra

Administrative Responsibilities

- Chairperson, Website Content Monitoring Committee, NIT Raipur (17th Nov. 2021 to till now)
- Warden Hostel-9 NIT Kurukshetra (From 1 July 2019 to July 2021)
- Center Superintendent (End Semester Examination, Apr/May 2018)
- Warden, Hostel -8, NIT Kurukshetra (from 22 July 2014 to 28 July 2016)

- Deputy Center Superintendent (End Semester Examination, 2013-2014) NIT Kurukshetra, India

Academic Responsibilities

- Reviewer of various international journals IEEE, Springer, Elsevier, World Scientific etc.
- Member, Accreditation committee for accreditation of UG/PG course of the department
- Coordinator, B. Tech (CO) Dissertation/Project
- Member, Departmental Purchase Committee (DPC)
- Member, M. Tech Dissertation/Project
- Member, Committee for processing PhD applications
- Member, Input to the DAC for reviewing B. Tech CO and IT (curriculum, syllabus and scheme) committee
- Member, Input to the DAC for reviewing M. Tech (curriculum, syllabi and scheme) committee
- Member, Committee for proposing new M. Tech program in Network / Cyber Security

Editorial Advisory Board Member/ Program Committee Member

- IHCI2022, Uzbekistan, MISP2022, NIT Raipur India, icSoftComp2022, Churasat Gujarat
- CLNLP2020, Seoul, South Koria, SCES-2020 MANIT Allahabad, India
- International Conference on Computing Analytics and Networking (ICCAN - 2017), 15-16 Dec. 2017, School of Computer Engineering, KIIT University, Bhubaneswar, Odisha
- First International Conference on Latest Advances in Machine Learning and Data Science [LAMDA - 2017], NIT Goa
- IEEE Second International Conference on Computer Graphics, Vision and Information Security (IEEE CGVIS - 2017)
- International Conference on Electronic Design, Computer Networks & Automated Verification (EDCAV 2015)
- Handbook of Research on Political Activism in the Information Age, IGI Global, 2014
- Political Campaigning in the Information Age, IGI Global, 2014
- Gamification for Human Factors Integration: Social, Education, and Psychological Issues, IGI Global, 2014
- Transforming Politics and Policy in the Digital Age, IGI Global, 2014
- International Conference on Computing and Communication Technologies (ICCCT-2014)
- Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013)
- Second Student Research Symposium (SRS-2013)

Ph.D. Students

ONGOING	
Name: **SHREYA CHANDRAKAR** Email: kaverikar03@gmail.com Roll No.: 23318509 Year: 2023 - 2024 Thesis Area: Affective Computing	Name: **Anjali Sagar Jangde** Email: asjangde.phd2024.it@nitrr.ac.in Roll No.: 24318001 Year: 2023 - 2024 Thesis Area: Medical Signal Processing
Name: **KAVERI KAR** Email: schandrakar.phd2024.it@nitrr.ac.in Roll No.: 231555 Year: 2023 - 2024 Thesis Area: Affective Computing	Name: **ARTI KORI** Email: artikori1711@gmail.com Roll No.: 25318003 Year: 2025 - 2026 Thesis Area: Image Processing
COMPLETED	
Name: **ANAMIKA DHILLON** Email: dhillon.anamika2390@gmail.com Roll No.: 2K17/NITK/PhD/6170020 Year: 2016 - 2017 Thesis Title: A Multi-Model Deep Learning Framework for Multi-class Object Recognition	Name: **DIVYA GARG** Email: divya29garg@gmail.com Roll No.: 2K18/NITK/Ph.D./6180091 Year: 2018 - 2019 Thesis Title: Modelling and Analysis of Spontaneous Emotions in 3D Space Using Deep Learning

M. Tech. Students (completed 18 nos.)

Name: **Abhishek Ahirwar** (24265001) NIT Raipur **[On-going]** Email: abhiahirwar2001@gmail.com Batch: 2025 - 2026 Thesis Title: TBD	Name: **Rajaswi Suryakant Borkar** (23265016) NIT Raipur Email: borkar.rajaswi15@gmail.com Batch: 2024 - 2025 Thesis Title: Wavelet-Enhanced CNNs for Accurate Brain Tumour Detection and Classification

Name: **Roopa Golchha** (21265018) NIT Raipur Email: swizling.27@gmail.com Batch: 2021 - 2023 Thesis Title: Deepfake Image Generation and Detection using GAN and CNN in Quantum Computing Domain	**Name: Shashank Kaushik (22265012)** Email: k.shashank.1212@gmail.com Batch: 2023 - 2024 Thesis Title: Affect Analysis using the integration of Physiological signals in Deep Learning Framework
Name: **Biken Singh** (31903110) Email: bikensingh62@gmail.com Batch: 2019 - 2021 Thesis Title: Affect Analysis from EEG Signal Using Convolutional LSTM Network	Name: **Nency Bansal** (31903202) Email: nencybansal42@gmail.com Batch: 2019 - 2021 Thesis Title: Detection of Deepfake Videos using Convolution Neural Network
Name: **Anant Kumar** Roll No.:31803107 Email: anantchaudhary1995@gmail.com Batch: 2018 - 2020 Thesis Title: Image compression using Deep Learning based multi-structure feature map and K-means clustering	Name: **Shaijal Tripathi** (31903220) Email: shaijal_31903220@nitkkr.ac.in Batch: 2019 - 2021 Thesis Title: Pose-Based Action Recognition using Wavelet Analysis
Name: **Gita** Roll No.:31603218 Email: gitasingh480@gmail.com Batch: 2016 - 2018 Thesis Title: A Multimodal Fusion-based Framework to Reinforce IDS for Security Big Data Environment Using Spark	Name: **Ankur Kaushal** [Biomedical Engg.] Roll No.:31608108 Email: ankur.vicky999@gmail.com Batch: 2016 - 2018 Thesis Title: Deep Convolutional Neural Network-Based Cervical MR Images Classification
Name: **Pragya Gupta** Roll No.:31503110 Email: pragyagupta10@gmail.com Batch: 2015 - 2017 Thesis Title: Wild Animal Detection from Highly Cluttered Natural Scenes	Name: **Piyush Kawde** Roll No.:31503110 Email: piyushkawde123@gmail.com Batch: 2015 - 2017 Thesis Title: Random Deep Belief Networks for Affect Recognition from Physiological Signals
Name: **Vaibhav Khanna (Biomedical Engg.)** Email: vaibhavkhanna9331@gmail.com Year: 2016 - 2017 Thesis Area: Detection of prostate cancer using wavelet transform	Name: **Shipra Roy (Biomedical Engg.)** Email: shipraroy1710@gmail.com Year: 2016 - 2017 Thesis Area: Cervical Cancer Detection from MR Images using Wavelet Transform

Name: **Rishav Garg** Email: rishav0127@gmail.com Year: 2015 - 2016 Thesis Title: Human Detection Using Visual and Infrared Imagery	Name: **Dolly Kharbanda** Email: dolly.kharbanda@gmail.com Year: 2015 - 2016 Thesis Title: Brain tumour detection from Histopathological Images using Multiresolution Analysis and Dictionary Learning
Name: **Rohit Kumar Tiwari (Topper 2013)** Email: to_rohittiwari@yahoo.in Year: 2014 - 2015 Thesis Title: A Computer Vision based Framework for Visual Gun Detection	Name: **Ram Pratap Sharma** Email: rmprtp_shrm@yahoo.co.in Year: 2014 - 2015 Thesis Title: Multimedia Interaction Using Hand Gesture
Name: **Mayank Kumar Aditiya** Email: mayankaditia@gmail.com Year: 2013 - 2014 Thesis Title: Spontaneous Affect Recognition from Audio-Visual Signals Using Multi-resolution Analysis	Name: **Himanshu Buckchash** Email: himanshu7buckchash@gmail.com Year: 2013 - 2014 Thesis Title: A Parallel Three-Stage Framework for Visual Knife Detection.

Conferences/Workshops/ Seminar organized

- Chairman, MIND-2025, International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND2025) organized on 12-14 December 2025 at Dept. of Computer Science & Engineering, MNIT Jaipur, India
- Chairman, AICTA-2025, International Conference on Artificial Intelligence, Computing Technologies, Internet of Things (IoT), and Data Analytics organized on 30-01 November 2025 at Lendi Institute of Engineering & Technology, Visakhapatnam, India
- General Co-Chair, MIND-2024, International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND2024) organized on 20-21 Dec. 2024 at Dept. of Computer Science & Engg., NIT Goa, India
- General Co-Chair, MIND-2023, International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND2023) organized on 21-22 Dec. 2023 at Dept. of Computer Science & Engg., NIT Hamirpur, India
- Secretary, MIND-2021 International Conference on Machine Learning, Image Processing, Network Security and Data Sciences organized on 11-12 Dec. 2021 at Dept. of Information Technology, NIT Raipur, Chhattisgarh, India
- Program Chair, MIND-2020 International Conference on Machine Learning, Image Processing, Network Security and Data Sciences organised on 30-31 July 2020 at Dept. of Computer Science & Engineering, NIT Silchar, Assam, India
- Organizing Chair, MIND-2019 International Conference on Machine Learning, Image Processing, Network Security and Data Sciences organised on 3-4 March 2019 at Dept. of Computer Engineering, NIT Kurukshetra, India

- Coordinator, One-week training programme on the professional development of teachers on (15-20 March), 2017, Office of Dean, Faculty Welfare, NIT Kurukshetra, India
- Coordinator, Winter School on Computational Intelligence in Pattern Recognition (CIPR-2016), 12-17th Dec. 2016 at Dept. of Computer Engineering, NIT Kurukshetra, India
- Coordinator, Summer School on Image Processing (SSIP-2015), 8-12th June 2015, Dept. of Computer Engineering, NIT Kurukshetra, India
- Member of organising team in First International Conference on Intelligent Interactive Technologies and Multimedia (IITM-2010), Dec. 28-30, 2010, organised by IIIT Allahabad, India.
- Member of organizing team in the Second International Conference on Intelligent Human Computer Interaction (IHCI-2010) organised by IIIT Allahabad, India.
- Member of the organising team in the First International Conference on Intelligent Human Computer Interaction (IHCI-2009) organised by IIIT Allahabad, India.
- Member of the organising team in the IEEE Workshop on Recent Trends in HCI organised by IIIT Allahabad, India.

Conferences/Workshops/Summer/Winter school Attended

- The Fifteenth International IEEE Conference on Computing, Communication and Networking Technologies, June 24 - 28, 2024, IIT Mandi, H.P., India
- One-week short-term training program on "Artificial Intelligence and Machine Learning for Engineering Applications (AIMLEA-2024)", August 10 – 14, 2024, Department of Electronics and Communication Engineering, National Institute of Technology Kurukshetra, Haryana
- One-week short-term training program on "Soft Computing Techniques & Robotics", 4-8 Sep. 2017, Department of Information Technology, National Institute of Technology Raipur, India
- One week short-term training program on "Applications of statistics in Engg, Management and Applied Sciences from 11th -15th Oct. 2012, National Institute of Technology Silchar, India
- Winter School on Speech and Audio Processing 2011, IIT Guwahati, from 8th Jan. 2011 to 11th Jan. 2011.
- The Second International Conference on Intelligent Human Computer Interaction (IHCI-2010) organized by IIIT Allahabad from 16th to 18th January 2010.
- IEEE Workshop on Recent Trends in HCI organized by IIIT Allahabad from 19th - 21st Jan. 2009
- First International Conference on Intelligent Human Computer Interaction (IHCI-2009) organized by IIIT Allahabad from 19th-23rd Jan. 2009.
- Third International Conference on Wireless Communication & Sensor Networks (WCSN-2007) organized by IIIT Allahabad from 13th to 15th Dec. 2007.
- Volunteer in the 3rd International Conference on Wireless Communication & Sensor Network (WCSN-2007) organized by IIIT, Allahabad, India.

- Volunteer in the 2nd Nobel Laureate Science Conclave 2009, organized by IIIT, Allahabad.

Personal Information

Name	GYANENDRA KUMAR VERMA
Father's Name	Late S. P. Verma
DOB	Feb. 06th, 1980
Gender	Male
Marital Status	Married
Address	Department of Information Technology, National Institute of Technology Raipur Raipur – 492010 Chhattisgarh, India
Phone	+91-7404210632
Email	gkverma.it@nitrr.ac.in, vermagkv@gmail.com
Website	www.gkverma.in

References

1. Prof. Awadhesh Kumar Singh
   Professor and Head of the Department
   Department of Computer Engineering
   National Institute of Technology Kurukshetra- 136119, India
   Email: aksingh@nitkkr.ac.in
   Phone: +91-1744-233481

2. Prof. Dinesh K. Vishwakarma,
   Professor and Head of the Department
   Department of Information Technology,
   Delhi Technological University, Delhi
   Bawana Road, Delhi – 110042
   Email: dinesh@dtu.ac.in
   Phone:+91-9971339840,

3. Prof. Bhupesh Kumar Singh
   Associate Professor
   Department of Computer Engineering, College of Technology
   G. B. Pant University of Agriculture & Technology, Pantnagar –
   263145 India
   Email: bhupeshkumarsingh@gmail.com
   Phone: 9411159650

Sponsored Projects

1. Title: Assessment of linkages between groundwater withdrawal, land subsidence and other contributing factors in Howrah
   PI: Chandan Kumar Singh
   Co-PI: Gyanendra Kumar Verma
   Project Cost: 42.57 Lacs
   Funding Agency: Ministry of Jal Shakti, Govt. of India

International Journal articles

1. Title: EEG-Based Schizophrenia Classification Using Attention-Integrated Deep Convolutional Networks
   Author: Anjali Sagar Jangde, Gyanendra K. Verma
   Source: Psychiatry Research: Neuroimaging, 112138, 2026 [SCI IF: 2.05]; DOI: https://doi.org/10.1016/j.pscychresns.2026.112138

2. Title: Hybrid DCGAN-CNN architecture for EEG-based emotion recognition in 3D Valence-Arousal-Dominance space
   Author: Gyanendra K. Verma
   Source: SN Computer Science, Volume 6, article number 463, (2025), 2025 [Scopus]; DOI:https://doi.org/10.1007/s42979-025-03998-z

3. Title: Leveraging Quantum Computing for Synthetic Image Generation and Recognition with Generative Adversarial Networks and Convolutional Neural Networks
   Author(s): Roopa Golchha and Gyanendra Kumar Verma
   Source: International Journal of Information Technology, Springer 2024, 9th April [Scopus]
   DOI: https://doi.org/10.1007/s41870-024-01835-9

4. Title: EEG-based Emotion Recognition using MobileNet Recurrent Neural Network with Time-Frequency Features
   Author(s): Divya Garg, Gyanendra Kumar Verma, Awadhesh Kumar Singh
   Source: Applied Soft Computing, Elsevier, Vol. 154, March 2024, 111338 [SCI IF: 8.7]
   https://doi.org/10.1016/j.asoc.2024.111338

5. Title: EEG-Based Emotion Recognition Using Quantum Machine Learning
   Author(s): Divya Garg, Gyanendra Kumar Verma, Awadhesh Kumar Singh
   Source: SN Computer Science June-2023, 4, 480, 2023; DOI: https://doi.org/10.1007/s42979-023-01943-6

6. Title: Real-Time Advanced Computational Intelligence for Deep Fake Video Detection
   Author(s): Nancy Bansal, Turki Aljrees, Dhirendra Prasad Yadav, Gyanendra Kumar Verma et al.
   Source: Applied Sciences (MDPI) [IF: 2.838] 2023, 13(5), 3095;
   https://doi.org/10.3390/app13053095 (registering DOI)

7. Title: A review of deep learning-based methods for affect analysis using physiological signals.
   Author(s): D Garg, GK Verma
   Source: Multimedia Tools and Applications, Springer [IF: 2.577] (Jan. 2023)
   https://doi.org/10.1007/s11042-023-14354-9

8. Title: Modelling and statistical analysis of emotions in 3D space
   Author(s): D Garg, GK Verma, AK Singh
   Source: Engineering Research Express 4 (3), 035062 (Sep. 2022) [If: 1.205] IOP Publishing, DOI
   10.1088/2631-8695/ac93e8

9. Title: Multi-modal feature fusion for object detection using neighbourhood component analysis and
   bounding box regression
   Author(s): Anamika Dhillon, Gyanendra K. Verma
   Source: International Journal of Business Intelligence and Data Mining 1(1):1 Inderscience
   DOI: 10.1504/IJBIDM.2022.10047465

10. Title: A Deep Learning Framework for Multi-Class Object Recognition Using Feature Fusion and
    Neighbourhood Component Analysis
    Author(s): Anamika Dhillon, Gyanendra K. Verma
    Source: SSRN Electronic Journal. (Jan. 2021) DOI: 10.2139/ssrn.3979332

11. Title: Convolutional Neural Network: A Review of Models, Methodologies and Applications to
    Object Detection
    Author(s): Anamika Dhillon, Gyanendra K. Verma
    Source: Progress in Artificial Intelligence, Springer, 9 (2), 85-112 (2020).
    https://doi.org/10.1007/s13748-019-00203-0

12. Title: Emotion Recognition in Valence-Arousal Space from Multi-channel EEG Data and
    Wavelet-based Deep Learning Framework
    Author(s): D Garg, GK Verma
    Source: Procedia Computer Science 171, 857-867, 2020

13. Title: A multimodal fusion-based framework to reinforce IDS for securing Big Data environment
    using Spark
    Author(s): Gita Donkal, Gyanendra K. Verma
    Source: Journal of Information Security and Applications, Elsevier, [Scopus]   Vol. 43, December
    2018, Pages 1-11, DOI: https://doi.org/10.1016/j.jisa.2018.10.001

14. Title: Wild Animal Detection from Highly Cluttered Images Using a Deep Convolutional Neural
    Network
    Author(s): Gyanendra K. Verma, Pragya Gupta
    Source: International Journal of Computational Intelligence and Applications (IJCIA), World
    Scientific [Scopus] 17(1):1850021 DOI:10.1142/S1469026818500219

15. Title: Affect representation and recognition in 3D continuous valence–arousal–dominance space
    Author(s): G K Verma, U S Tiwary
    Source: Multimedia Tools and Applications, Springer [SCI, IF: 2.313] Volume: - Issue: -
    Pages: 1-25 Published Online: Jan 2016

DOI: 10.1007/s11042-015-3119-y

16. Title: Spontaneous Affect Recognition from Audio-visual cues using Multiresolution Analysis
    Author(s): Gyanendra Verma, Uma Shankar Tiwary
    Source: International Journal of Computational Vision and Robotics, Inderscience Volume: - Issue: -
    Pages: 1-22

17. Title: Texture vs. multiresolution analysis of facial expressions: application to emotion recognition
    Author(s): Himanshu Buckchash; Gyanendra K. Verma
    Source: International Journal of Applied Pattern Recognition, Inderscience Volume: 2 Issue: 1 Page:
    46 Published: 2015
    DOI: 10.1504/IJAPR.2015.068931

18. Title: Human-computer interaction Using Hand gesture
    Author(s): RP Sharma, GK Verma
    Source: Procedia Computer Science, Elsevier 54, 721-727, 2015

19. Title: A computer vision-based framework for visual gun detection using Harris interest point
    detector
    Author(s): RK Tiwari, GK Verma
    Source: Procedia Computer Science, Elsevier 54, 703-712, 2015

20. Title: Multimodal Fusion Framework: A Multiresolution approach for emotion Classification and
    recognition from Physiological signals
    Author(s): Verma, G.K.; Tiwary, U.S.
    Source: NeuroImage, Elsevier [SCI, IF: 5.902] Volume: 102 Issue: P1 Pages: 162-172 Published:
    2014 DOI: 10.1016/j.neuroimage.2013.11.007 /

21. Title: Basic handwritten character recognition from a multi-lingual image dataset using
    multi-resolution and multi-directional transform
    Author(s): Prasad, S.; Verma, G.K.; Singh, B.K.
    Source: International Journal of Wavelets, Multiresolution and Information Processing, World
    Scientific [SCI, IF: 0.61] Volume: 10 Issue: 5 Published: 2012
    DOI: 10.1142/S0219691312500464 /

22. Title: A Digital Security System with Door Lock System Using {RFID} Technology
    Author(s): Gyanendra K Verma; Pawan Tripathi
    Source: International Journal of Computer Applications Volume: 5 Issue: 11 Pages: 6--8 Published:
    2010 DOI: 10.5120/957-1334

International Books

1. Multimodal Affective Computing: Affective Information Representation, Modelling, and Analysis
   Bentham Science Singapore, 2023
   Author: **Gyanendra K. Verma**
   DOI: 10.2174/97898151244531230101
   eISBN: 978-981-5124-45-3, 2023
   ISBN: 978-981-5124-46-0
   URL: https://www.eurekaselect.com/ebook_volume/3474

2. Deep Learning: Theory, Architectures and Applications in Speech, Image and Language Processing
   Bentham Science 2022 (In Press)

*Editors: **Gyanendra K. Verma**, Rajesh Doriya*

3. Data Science: Theory, Algorithms, and Applications
   Transactions on Computer Systems and Networks, Springer, 2021
   *Editors: **Verma, G. K.,** Soni, B., Bourennane, S., Ramos, A.*

4. Machine Learning, Image Processing, Network Security and Data Sciences
   Second International Conference, MIND 2020, Silchar, India, July 30 - 31, 2020, Proceedings, Part I
   *Editors: Bhattacharjee, A., Borgohain, S.K., Soni, B., **Verma, G. K.,** Gao, X.-Z.*

5. Machine Learning, Image Processing, Network Security and Data Sciences
   Second International Conference, MIND 2020, Silchar, India, July 30 - 31, 2020, Proceedings, Part II
   *Editors: Bhattacharjee, A., Borgohain, S.K., Soni, B., **Verma, G.K.,** Gao, X.-Z.*

International Book Chapters

1. Title: Deep Learning: History and Evolution
   Author: Jaykumar Suraj Lachure, Gyanendra Verma and Rajesh Doriya
   Source: In the book: Deep Learning: Theory, Architectures and Applications in Speech, Image and Language Processing
   Bentham Science Publisher, Singapore Page: 1-18 (18) Aug. 2023
   DOI: https://doi.org/10.2174/9789815079210123010004
   URL: https://www.eurekaselect.com/ebook_volume/3557

2. Title: Prediction of growth and review of factors influencing the transmission of COVID-19
   Author: Gyanendra K. Verma
   Source: In the book, Mathematical Modelling and Intelligent Control for Combating Pandemics. Springer Optimisation and Its Applications
   213-231, May 2023, VOL. 203 Springer, Cham
   Mathematical Modelling and Intelligent Control for Combating Pandemics, 213-231, May 2023, Springer Cham
   Book URL: https://link.springer.com/book/9783031331824
   Chapter DOI: https://doi.org/10.1007/978-3-031-33183-1_12

3. Title: A Multiple Object Recognition Approach via DenseNet-161 Model
   Author(s): Anamika Dhillon and Gyanendra Kumar Verma
   Source: In the book: Smart Electrical and Mechanical Systems,
   An Application of Artificial Intelligence and Machine Learning, 2022, Pages 39-64, Elsevier
   Published: Jan. 2022
   DOI: https://doi.org/10.1016/B978-0-323-90789-7.00009-9

4. Title: Fusion of Deep Learning Features for Wild Animal Detection
   Author(s): Anamika Dhillon, Verma, G.K.
   Source: Advances in Deep Learning, Artificial Intelligence and Robotics, Lecture Notes in Networks and Systems book series (LNNS, volume 249) Jan. 2022
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