CURRICULUM VITAE TEMPLATE

Position/Designation: Assistant Professor
Department: Mathematical and Physical Sciences (Section of Computer)
College: College of Arts and Sciences, University of Nizwa, Sultanate of Oman

Personal Information

Name: Naresh Kumar
Marital Status: Married
Email Address: naresh@uninzwa.edu.om
Contact Numbers: Extn 813

Academic Qualifications

Doctor of Philosophy (PhD Indian Institute of Technology, India)

Teaching Activities, Current/Previous Experience

Teaching Activities:

Digital Image Processing, Data Science and Artificial Intelligence, Computer Vision, Big Data Analytics, Machine Learning, Operating Systems, Data Structures, Algorithmic Design and Analysis, Programming Languages: C/C++, Python/Matlab, Fundamentals of Theoretical Computer Sciences, and Applied Mathematics: Discrete Mathematics and Statistics.

Research Activities

(Includes but not limited to research interests, conference attendance, conference presentations and publications: refereed journal, articles, books, etc.)

Research Interests: Computer Vision, Artificial Intelligence, Multimedia Data Analytics in Environmental science and affective computing for developing healthcare system.

- Peer Reviewed Journals(SCI/Scopus): 8 (Elsevier, Springer, and Tailor & Francis)
- Conference Presentations: 10+(IEEE, Springer and ACM International conferences)
- Conference Attendance: 15+(IEEE, Springer and ACM International conferences)

Research Publications:
Peer reviewed(SCI/ESCI/Scopus Indexed/Proceedings)

- 2023, Generalized Second-Order G-Wolfe Type Fractional Symmetric Program and their Duality Relations under Generalized Assumptions, February 2023 International Journal of Mathematical, Engineering and Management Sciences 8(1):142-162 (Scopus)

- 2022, Improved YOLOv3-tiny Object Detector with Dilated CNN for Drone-Captured Images, IEEE International Conference on Intelligent data Science and Technology and Applications(IDSTA2022) SAN ANTONIO, Texas, USA.

- 2021, Sensor routing protocol with optimized delay and overheads in mobile based WSN. Journal of Information Assurance and Security (JIAS). Journal of Information Assurance and Security. ISSN 1554-1010 Volume 16 (2021) pp. 132-139.

- 2020, An improved CNN framework for detecting and tracking human body in unconstraint environment. Knowledge-Based Systems, Elsevier. doi.org/10.1016/j.knosys.2019.105198'

- 2020, A Weakly Supervised CNN model for spatial localization of Human Actions in Unconstraint Environment, Signal, Video and Image Processing (SiVP), Springer Journal.

- 2020, A Cascaded CNN Model for Multiple Human Tracking and Re-localization in Complex Video Sequences with Large Displacement, Multimedia Tools and Application SCI Springer. DOI: 10.1007/s11042-019-08501-4.

- 2019, What and where you have seen? Bag of Words-based local feature pooling for visual event detection. In Tenth International Conference on Signal Processing Systems (Vol. 11071, p. 110710Q). International Society for Optics and Photonic. NTU Singapore.

- 2019, A weakly supervised spatiotemporal localization and detection of human actions in wild conditions, *The Visual Computer*, **SCI** Springer Journal. DOI: 10.1007/s00371-019-01777-5.

- 2018, Deep network architecture for large scale visual detection and recognition issues. *International Journal of Information Assurance and Security* ISSN 1554-1010). Vol. 12, 6(pp. 201-208) .

- 2018, "Motion Trajectory for Human Action Recognition Using Fourier Temporal Features of Skeleton Joints," *Journal of Image and Graphics,* Vol. 6, No. 2, pp. 174-180, December 2018, Singapore, World Scientific. (*Scopus*) doi: 10.18178/joig.6.2.174-180.

- 2018, Detecting Helmet of Bike Riders in Outdoor Video Sequences for Road Traffic Accidental Avoidance. In International Conference on Intelligent Systems Design and Applications (pp. 24-33). Springer, Cham. Machine Intelligence Research Labs, USA, Springer

- 2018, Human Action Recognition from Motion Trajectory using Fourier Temporal Features of Skeleton Joints. IEEE 4th International conference on ICACCE, Paris, France. 10.1109/ICACCE.2018.8441712.

- 2017, A scheme of features fusion for facial expression analysis: A facial action recognition. *Journal of statistics and Management System*, (*Journal of Tailor and Frances*), 20(4), pp. 693-701.

- 2017, Large Scale Deep Network Architecture of CNN for Unconstraint Visual Activity Analytics. In International Conference on Intelligent Systems Design and Applications (pp. 251-261). Springer, Cham. Machine Intelligence Research Labs, USA, Springer.

- 2016, A scheme of time series classifications for dynamic hand gesture recognition. *International Journal of Control Theory and Applications*. International Science Press 9(41) 2016, pp. 717-726.

Book Chapters:

- 2018, Better Performance in Human Action Recognition from Spatiotemporal Depth Information Features Classification, DOI: 10.1007/978-981-32-9585-8_5 In book: Computational Network Application Tools for Performance Management, pp.39-51.

- 2020, Recent Issues with Machine Vision Applications for Deep Network Architectures'. In "Current Trends and Applications in Cognitive Computing 267-284 ", 2020. Tailor & Francis Group CRC Press, USA. ISBN-9181003082033.

Membership in Professional Bodies

- IEEE, Associate membership, Delhi section, India (ID-92577805)
- Computer Society of India (CSI), Mumbai, India, Associate Membership (ID- 1186490)

- ➢ Soft Computing Research Society (SCRS), New Delhi, India, (Life Time membership)
- ➢ Asia Society of Researchers (ASR), SPA center, Wan Chai, Hong Kong.
- ➢ Machine Intelligence Research (MIR) Lab, P.O. Box 2259 Auburn, Washington 98071-2259, USA.
- ➢ Editorial board member in Journal of Information Engineering and Applied Computing (IEAC) under WHIOCE Publishing pvt. Ltd. (SCIE). ISSN: 2630-4619.
- ➢ Guest Editor, Special Issues of Recent Advances in Computer Science and Communications, Bentham Science Journal for Fourth Industrial Revolution Based Technology and Practices (FIRTP 4.0).

Awards and Recognitions

- ➢ Graduate Aptitude of Test of Engineering (GATE: CSE- Indian Institute of Technology) 2011, 2012. [JRF and SRF assistance-ship for Doctorate Degree: Indian Institute of Technology, India].
- ➢ National Eligibility Test (University Grant Commission)-2012.
- ➢ Joint Aptitude test of Master in Computer Science (IIT-JAM, 2009).

Academic and Professional Activities

- ➢ Chair Coordinator : Data Science Program (Graduation: Computer Science)
- ➢ Program Coordinator (Graduation: Computer Science)
- ➢ Graduation Project and Research Committee (Member: Computer Section)
- ➢ Quality Improvement Committee (Member: DMPS)
- ➢ Annual Report Committee (Member: DMPS)
- ➢ Risk management Committee (Member: DMPS)

Global Research Recognition and Services

- ➢ Editorial board member in Journal of Information Engineering and Applied Computing (IEAC) under WHIOCE Publishing pvt. Ltd. (SCIE). ISSN: 2630-4619.
- ➢ Guest Editor, Special Issues of Recent Advances in Computer Science and Communications, Bentham Science Journal for Fourth Industrial Revolution Based Technology and Practices (FIRTP 4.0).
- ➢ Guest Editor, Special Issues of Journal of Evolutionary Intelligence (EVIN) Springer Journal for Fuzzy Systems and Data Mining (FSDM-2021-IEEE).
- ➢ Editorial managerial team member International Journal of Computer Applications (IJCA) Taylor & Francis (Scopus). ISSN: 1206-212X online ISSN: 1925-7074.
- ➢ IEEE Transaction of Fuzzy system (IEEE-TFS) (Editorial Board: Reviewing committee member).
- ➢ IEEE Transaction on Systems, Man, and Cybernetics: Systems (IEEE SMC)-(Editorial Board: Reviewing committee member).
- ➢ International Society of Automation (ISA) Transaction (Elsevier, Journal, SCI)) (Editorial Board: Reviewing committee member).
- ➢ Medical Image Analysis, (Elsevier, Journal, SCI)(Editorial Board: Reviewing committee member).
- ➢ International Journal of Fuzzy Systems (Springer, Journal, SCI)(Editorial Board: Reviewing committee member).\
- ➢ Signal Processing, (Elsevier, Journal, SCI)(Editorial Board: Reviewing committee member).
- ➢ Applied Intelligence, (Springer Journal, SCI) the International Journal of Research on Intelligent Systems for Real Life Complex Problems (Editorial Board: Reviewing committee member).
- ➢ Journal of Visual Communication and Image Representation (JVIS) Elsevier (SCI). ISSN: 1047-3203 (Editorial Board: Editorial Board: Reviewing committee member).
- ➢ Knowledge Base System (KBS), Elsevier Journal SCI (Certification of reviewing committee membership).
- ➢ Journal of Experimental Theoretical Artificial Intelligence (Springer Journal SCI: Reviewing committee member).
- ➢ Signal, Video and Image processing (SiVP), (Springer Journal SCI: Editorial Board: Reviewing committee member))