

Dr. Rakesh Kumar Sanodiya, Ph.D.

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Employment History

- Dec-2024 – Present **Assistant Professor (Level-11)**, Department of Computer Science and Engineering, IIITDM Jabalpur.
- Dec-2021 – Dec-2024 **Assistant Professor (Level-11)**, Department of Computer Science and Engineering, IIIT Sri City.
- Dec-2020 – Dec-2021 **Assistant Professor (Level-10)**, Department of Computer Science and Engineering, IIIT Sri City.
- Feb-2020 – Dec-2020 **Research Assistant Professor**, Department of Electrical Engineering, NTUT Taiwan

Education

- 2016 – 2019 **Ph.D. with 8.38 (CGPA), Computer Science and Engineering** from IIT Patna.
Thesis title: *Explorations in Metric Learning with Applications to clustering and classification.*
- 2012 – 2014 **M.Tech. with 8.43 (CGPA), Computer Technology and Application** from SoIT, RGPV Bhopal.
- 2007 – 2011 **B.E. with 75.31 (%) , Computer Science and Engineering** from NIIST, Bhopal.





R&D Projects

- 2023 – 2025 **PI-CRG,SERB:** Development of Novel Unsupervised Domain Adaptation Framework for Image Classification
- 2024 – 2025 **PI-MoES** Development of a novel real-time adaptive deep domain transfer framework for underwater marine object recognition.
- 2023 – 2025 **Co-PI-ISRO:** Advanced methods and algorithms for automatic information extraction for (online/offline) processing and analysis of images/data from various multi-source data.





Setup-Lab & Co-Founder

- PI **Robotics Intelligence-Lab:** Setup Robotics Intelligence Lab Room No. 329 at IIIT Sri City equipped with 3-D printer, all types of sensors, pre-trained robots
- Co-Founder **WADLA workshop** [Founder of International Research Workshop on Advances in Deep Learning and Applications \(WADLA\)](#)



Teaching

- 2023-2024  **Monsoon-23:**
Advanced data structure and Algorithm, Syllabus, PPT
Full Stack Development-2
Overview of Computer Workshop
- 2022-2023  **Spring-23:**
Deep Learning
Robotics Intelligence
Monsoon-22:
Advanced data structure and Algorithm
Full Stack Development-2
- 2021-2022  **Spring-22:**
Robotics Intelligence
Monsoon-21:
Database Management System
Advanced data structure and Algorithm
Computer Programming
- 2020-2021  **Spring-21:**
Web Application Development
Enterprise Application Development
Data Structure and Algorithm
Probability and Statistical Theory


Research Interests

-  **Machine Learning**
Sub Areas: *Metric Learning, Shallow Domain Adaptation.*
-  **Deep Learning**
Sub Areas: *Transfer Learning, Deep Domain Adaptation, Domain Transfer, Zero-shot Learning, Few-shot Learning .*
-  **Robotics Intelligence**
Sub Areas: *Reinforcement Learning for navigation and Object Manipulation, Automation .*
-  **AI/ML Applications**
Sub Areas: *Remote Sensing, Underwater Object Recognition, Precision Agriculture, Disease Identification .*











PhD Student

-  **Satya Rajendra Singh:Completed**
Thesis Topic: *Exploration in Convolutional Neural Network Models with Applications to Image Classification and Retrieval.*
-  **Ravi Ranjan Karn Completed**
Thesis Topic: *Exploration of Domain Adaptation Approaches for Image Classification.*

MTech Student

- 2022  **Midhun V**
Thesis Topic: *Domain Adaptation for Semi-supervised Semantic Segmentation.*
Company: *Mercedes Benz.*

BTech with Honors (Research) Student

- 2023-2025  **Animesh Shree-H25RKSo2**
Project Topic: *Exploring Deep Domain Adaptation Approaches for Image Classification.*
Publication:
-  **Aarav Nigam -H25RKSo1**
Project Topic: *Navigation using Reinforcement Learning.*
Publication:
-  **Ashraf Ali-H25RKSo3**
Project Topic: *Development of Deep Learning Techniques for Precision Agriculture.*
Publication:
-  **Subhangi-H25RKSo4**
Project Topic: *Development of Shallow Domain Adaptation Approaches for Image Classification.*
Publication:
-  **Kushal-S20210010128**
Project Topic: *Development of low computational algorithms for Edge Devices.*
Publication:
-  **Sravan Kumar-S20210010078**
Project Topic: *Exploration Deep Learning Approaches for Underwater Object Recognition.*
Publication:
- 2022-2024  **Rushendra Sidibomma-H24RKSo1**
Project Topic: *Exploring Deep Learning Approaches for Unsupervised Domain Adaptation.*
Publication: *Conf. Pub. 11th-IEEE ESDC-2023.*
-  **Amal S Namboodiri-H24RKSo2**
Project Topic: *Exploring Deep Learning Approaches for Remote Sensing.*
Publication: *Conf. Pub. 11th IEEE-ESDC-2023.*
-  **Sampreeth Jangala-H24RKSo3**
Project Topic: *Exploring Deep Learning Approaches for Image Classification.*
Publication: *Conf. Pub. IEEE-IJCNN-2023.*
-  **Nitish Reddy-H24RKSo4**
Project Topic: *Exploration Deep Learning Approaches for Underwater Object Recognition.*
Publication: *Conf. Pub. 11th- IEEE ESDC-2023.*
- 2021-2023  **Shreyash Mishra (Completed)**
Project Topic: *Exploration of Shallow Domain Adaptation Approaches for Image Classification.*
Publication: *Trans. Pub. IEEE TAI-2023, Journal Pub. KBS-2022, Conf. Pub. 9th IEEE UPCON-2022.*

BTech with Honors (Research) Student (continued)


- **Priyam Bajpai** (Completed)
Project Topic: *Exploring Shallow Unsupervised Domain Adaptation Approaches for Image Classification.*
Publication: *Conf. Pub. 9th- IEEE UPCON-2022.*
- 2020-2022 ■ **B Y Reddy** (Completed)
Project Topic: *Context Unaware Knowledge Distillation for Image Retrieval.*
Publication: *Conf. Pub. CVMI-2022.*

BTech with Project Student

- 2023 ■ **Group B23RKS01: Lanka Sai Ramya, Kolusu Manasa, and Sneha H S**
Project Topic: *Exploring Generative Models for Precision Agriculture.*
- **Group B23RKS02: Golla Lalith, Sai Srikar, and Manohar Shashank**
Project Topic: *Exploring Metric Learning Approaches for Image Classification.*
- **Group B23RKS03: Aritro Ghosh, G. Yashswi, and V. Nithin**
Project Topic: *Exploring Metric Learning Approaches for Image Classification.*
- 2022 ■ **Group B22RKS01: R. Tholuchuru, V. Sathvik, and K. Sumanth**
Project Topic: *Semi-supervised Domain Adaptation.*
- **Group B22RKS02: S. Kokanti, M. Shashank, and C. Anand**
Project Topic: *Metric Learning.*
- **Group B22RKS03: A. Reddy, G. Chetan, and C. Teja**
Project Topic: *Unsupervised Domain Adaptation.*
- **Group B22RKS04: H. Chowdary, M. Sheetal, and P. Vignesh**
Project Topic: *Virtual Try-on.*
- 2021 ■ **Group B21RKS01: Y. Akhilesh, K. Hrudai, and L. Praneeth**
Project Topic: *Object Recognition.*
- **Group B21RKS03: C. Nikhilesh, N. Siva, Krishna, and N. Praneeth**
Project Topic: *Pose Estimation.*
- **Group B21RKS03: C. Eswara, L. Reddy, and M. Sai**
Project Topic: *Exploring Generative Model.*
- **Group B21RKS04: G. Vishnu, K. Lakshmi, and D. Pravnav**
Project Topic: *Deep Domain Adaptation.*
- **Group B21RKS05: V. Hanseesha, R. Anusri, and D. Neeharika**
Project Topic: *Person Re-Identification.*
- **Group B21RKS06: E. Suma, V. Amrutha, and B. Sairam**
Project Topic: *Object Detection and Localization.*

Research Publications

Journal Articles

- 1 O. Gilo, J. Mathew, S. Mondal, and R. K. Sanodiya, "Subdomain adaptation via correlation alignment with entropy minimization for unsupervised domain adaptation," *Pattern Analysis and Applications*, vol. 27, no. 1, p. 13, 2024.  DOI: [10.1007/s10044-024-01232-9](https://doi.org/10.1007/s10044-024-01232-9).











- 2 R. R. P. Karn and **R. K. Sanodiya**, "Pso-based unified framework for unsupervised domain adaptation in image classification," *Applied Intelligence*, pp. 1–27, 2024. [DOI: 10.1007/s10489-024-05706-5](https://doi.org/10.1007/s10489-024-05706-5).
- 3 P. Kumar, **R. K. Sanodiya**, J. Mathew, T. Setty, and B. Prakash, "Zero shot plant disease classification with semantic attributes.," *Artificial Intelligence Review*, 2024, ISSN: 2169-3536. [DOI: 10.1007/s10462-024-10950-9](https://doi.org/10.1007/s10462-024-10950-9).
- 4 R. Lekshmi, B. R. Jose, J. Mathew, and **R. K. Sanodiya**, "Mnemonic: Multikernel contrastive domain adaptation for time-series classification," *Engineering Applications of Artificial Intelligence*, vol. 133, p. 108 255, 2024. [DOI: 10.1016/j.engappai.2024.108255](https://doi.org/10.1016/j.engappai.2024.108255).
- 5 S. R. Singh, R. R. Yedla, S. R. Dubey, **R. K. Sanodiya**, and W.-T. Chu, "Frequency disentangled residual network," *Multimedia Systems*, vol. 30, no. 1, pp. 1–13, 2024.
- 6 A. Devika, **R. K. Sanodiya**, B. R. Jose, and J. Mathew, "Visual domain adaptation through locality information," *Engineering Applications of Artificial Intelligence*, vol. 123, p. 106 172, 2023, ISSN: 0952-1976. [DOI: 10.1016/j.engappai.2023.106172](https://doi.org/10.1016/j.engappai.2023.106172).
- 7 O. Gilo, J. Mathew, S. Mondal, and **R. K. Sanodiya**, "Rdaot: Robust unsupervised deep sub-domain adaptation through optimal transport for image classification," *IEEE Access*, 2023.
- 8 O. Gilo, J. Mathew, S. Mondal, and **R. K. Sanodiya**, "Unsupervised sub-domain adaptation using optimal transport," *Journal of Visual Communication and Image Representation*, p. 103 857, 2023, ISSN: 1047-3203. [DOI: 10.1016/j.jvcir.2023.103857](https://doi.org/10.1016/j.jvcir.2023.103857).
- 9 R. R. P. Karn, **R. K. Sanodiya**, and P. Bajpai, "A unified framework for visual domain adaptation with covariance matching," *Knowledge-Based Systems*, p. 110 894, 2023. [DOI: 10.1016/j.knosys.2023.110894](https://doi.org/10.1016/j.knosys.2023.110894).
- 10 R. K. Lakshmi Sanodiya, B. R. Jose, and J. Mathew, "Kernelized global-local discriminant information preservation for unsupervised domain adaptation," *Applied Intelligence*, pp. 1–23, 2023. [DOI: 10.1007/s10489-023-04706-1](https://doi.org/10.1007/s10489-023-04706-1).
- 11 S. Mishra and **R. K. Sanodiya**, "A novel angular based unsupervised domain adaptation framework for image classification," *IEEE Transactions on Artificial Intelligence*, 2023, ISSN: 2691-4581. [DOI: 10.1109/TAI.2023.3293077](https://doi.org/10.1109/TAI.2023.3293077).
- 12 R. S. R. Singh and **R. K. Sanodiya**, "Zero-shot transfer learning framework for plant leaf disease classification," *IEEE Access*, 2023.
- 13 **R. K. Sanodiya**, S. Mishra, P. Arun, *et al.*, "Manifold embedded joint geometrical and statistical alignment for visual domain adaptation," *Knowledge-Based Systems*, vol. 257, p. 109 886, 2022, ISSN: 0950-7051. [DOI: 10.1016/j.knosys.2022.109886](https://doi.org/10.1016/j.knosys.2022.109886).
- 14 **R. K. Sanodiya**, J. Mathew, R. Aditya, A. Jacob, and B. Nayanar, "Kernelized unified domain adaptation on geometrical manifolds," *Expert Systems with Applications*, vol. 167, p. 114 078, 2021, ISSN: 0957-4174. [DOI: 10.1016/j.eswa.2020.114078](https://doi.org/10.1016/j.eswa.2020.114078).
- 15 **R. K. Sanodiya** and L. Yao, "Discriminative information preservation: A general framework for unsupervised visual domain adaptation," *Knowledge-Based Systems*, vol. 227, p. 107 158, 2021, ISSN: 0950-7051. [DOI: 10.1016/j.knosys.2021.107158](https://doi.org/10.1016/j.knosys.2021.107158).
- 16 **R. K. Sanodiya**, J. Mathew, S. Saha, and P. Tripathi, "Particle swarm optimization based parameter selection technique for unsupervised discriminant analysis in transfer learning framework," *Applied Intelligence*, vol. 50, pp. 3071–3089, 2020. [DOI: 10.1007/s10489-020-01710-7](https://doi.org/10.1007/s10489-020-01710-7).
- 17 **R. K. Sanodiya**, S. Saha, and J. Mathew, "Semi-supervised orthogonal discriminant analysis with relative distance: Integration with a moo approach," *Soft Computing*, vol. 24, pp. 1599–1618, 2020, ISSN: 1432-7643. [DOI: 10.1007/s00500-019-03990-9](https://doi.org/10.1007/s00500-019-03990-9).

- 18 **R. K. Sanodiya**, M. Tiwari, J. Mathew, S. Saha, and S. Saha, "A particle swarm optimization-based feature selection for unsupervised transfer learning," *Soft Computing*, vol. 24, pp. 18 713–18 731, 2020, ISSN: 1432-7643. [DOI: 10.1007/s00500-020-05105-1](https://doi.org/10.1007/s00500-020-05105-1).
- 19 **R. K. Sanodiya** and L. Yao, "A subspace based transfer joint matching with laplacian regularization for visual domain adaptation," *Sensors*, vol. 20, no. 16, p. 4367, 2020, ISSN: 1424-8220. [DOI: 10.3390/s20164367](https://doi.org/10.3390/s20164367).
- 20 **R. K. Sanodiya** and L. Yao, "Linear discriminant analysis via pseudo labels: A unified framework for visual domain adaptation," *IEEE Access*, vol. 8, pp. 200 073–200 090, 2020, ISSN: 2169-3536. [DOI: 10.1109/ACCESS.2020.3035422](https://doi.org/10.1109/ACCESS.2020.3035422).
- 21 **R. K. Sanodiya** and L. Yao, "Unsupervised transfer learning via relative distance comparisons," *IEEE Access*, vol. 8, pp. 110 290–110 305, 2020, ISSN: 2169-3536. [DOI: 10.1109/ACCESS.2020.3002666](https://doi.org/10.1109/ACCESS.2020.3002666).
- 22 **R. K. Sanodiya** and J. Mathew, "A framework for semi-supervised metric transfer learning on manifolds," *Knowledge-Based Systems*, vol. 176, pp. 1–14, 2019, ISSN: 0950-7051. [DOI: 10.1016/j.knsys.2019.03.021](https://doi.org/10.1016/j.knsys.2019.03.021).
- 23 **R. K. Sanodiya** and J. Mathew, "A novel unsupervised globality-locality preserving projections in transfer learning," *Image and Vision Computing*, vol. 90, p. 103 802, 2019, ISSN: 0262-8856. [DOI: 10.1016/j.imavis.2019.08.006](https://doi.org/10.1016/j.imavis.2019.08.006).
- 24 **R. K. Sanodiya**, J. Mathew, B. Paul, and B. A. Jose, "A kernelized unified framework for domain adaptation," *IEEE Access*, vol. 7, pp. 181 381–181 395, 2019, ISSN: 2169-3536. [DOI: 10.1109/ACCESS.2019.2958736](https://doi.org/10.1109/ACCESS.2019.2958736).
- 25 **R. K. Sanodiya**, J. Mathew, S. Saha, and M. D. Thalakkottur, "A new transfer learning algorithm in semi-supervised setting," *IEEE Access*, vol. 7, pp. 42 956–42 967, 2019, ISSN: 2169-3536. [DOI: 10.1109/ACCESS.2019.2907571](https://doi.org/10.1109/ACCESS.2019.2907571).
- 26 **R. K. Sanodiya**, S. Saha, and J. Mathew, "A kernel semi-supervised distance metric learning with relative distance: Integration with a moo approach," *Expert Systems with Applications*, vol. 125, pp. 233–248, 2019, ISSN: 0957-4174. [DOI: 10.1016/j.eswa.2018.12.051](https://doi.org/10.1016/j.eswa.2018.12.051).






Conference Proceedings

- 1 A. Nigam, **R. K. Sanodiya**, P. Joshi, *et al.*, "Generalized visual path following on jetbot using normalization with reinforcement learning," in *2024 IEEE International Conference on Advanced Robotics and Its Social Impacts (ARSO)*, IEEE, 2024, pp. 247–252.
- 2 A. Nigam, **R. K. Sanodiya**, S. Saha, and Subhangi, "Optimizing training speed with novel adaptive exploration technique in simulation and real-world robotics for visual path following," in *Neural Information Processing: 31th International Conference, ICONIP 2024, Auckland, New Zealand, December 02-06, 2024*, Springer, 2024.
- 3 S. Jangala and **R. K. Sanodiya**, "A novel framework for multi-source domain adaptation with discriminative feature learning," in *2023 International Joint Conference on Neural Networks (IJCNN)*, IEEE, 2023, pp. 1–7. [DOI: 10.1109/IJCNN54540.2023.10191410](https://doi.org/10.1109/IJCNN54540.2023.10191410).
- 4 A. S. Namboodiri, **R. K. Sanodiya**, and P. Arun, "Remote sensing cloud removal using a combination of spatial attention and edge detection," in *2023 11th International Symposium on Electronic Systems Devices and Computing (ESDC)*, IEEE, vol. 1, 2023, pp. 1–6. [DOI: 10.1109/ESDC56251.2023.10149875](https://doi.org/10.1109/ESDC56251.2023.10149875).
- 5 N. R. Nandyala and **R. K. Sanodiya**, "Underwater object detection using synthetic data," in *2023 11th International Symposium on Electronic Systems Devices and Computing (ESDC)*, IEEE, vol. 1, 2023, pp. 1–6. [DOI: 10.1109/ESDC56251.2023.10149870](https://doi.org/10.1109/ESDC56251.2023.10149870).

- 6 J. Prakash, M. Ghorai, and R. Sanodiya, "Transfer learning: Kernel-based domain adaptation with distance-based penalization," in *International Conference on Pattern Recognition and Machine Intelligence*, Springer, 2023, pp. 189–198.
- 7 B. Y. Reddy, S. R. Dubey, **R. K. Sanodiya**, and R. R. P. Karn, "Context unaware knowledge distillation for image retrieval," in *Computer Vision and Machine Intelligence: Proceedings of CVMI 2022*, Springer, 2023, pp. 65–77. [DOI: 10.1007/978-981-19-7867-8_6](https://doi.org/10.1007/978-981-19-7867-8_6).
- 8 R. Sidibomma and **R. K. Sanodiya**, "Learning semantic representations and discriminative features in unsupervised domain adaptation," in *2023 11th International Symposium on Electronic Systems Devices and Computing (ESDC)*, IEEE, vol. 1, 2023, pp. 1–6. [DOI: 10.1109/ESDC56251.2023.10149872](https://doi.org/10.1109/ESDC56251.2023.10149872).
- 9 S. Suryavardan, V. Pulabaigari, and **R. K. Sanodiya**, "Unsupervised domain adaptation supplemented with generated images," in *Neural Information Processing: 29th International Conference, ICONIP 2022, Virtual Event, November 22–26, 2022, Proceedings, Part IV*, Springer, 2023, pp. 659–670. [DOI: 10.1007/978-981-99-1639-9_55](https://doi.org/10.1007/978-981-99-1639-9_55).
- 10 P. Bajpai and **R. K. Sanodiya**, "A unified framework for covariance adaptation with multiple source domains," in *2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, IEEE, 2022, pp. 1–6. [DOI: 10.1109/UPCON56432.2022.9986432](https://doi.org/10.1109/UPCON56432.2022.9986432).
- 11 R. R. P. Karn, **R. K. Sanodiya**, E. S. Chandaluri, S. Suryavardan, L. R. Reddy, and L. Yao, "Virtual try-on using style transfer," in *Responsible Data Science: Select Proceedings of ICDSE 2021*, Springer, 2022, pp. 131–139. [DOI: 10.1007/978-981-19-4453-6_9](https://doi.org/10.1007/978-981-19-4453-6_9).
- 12 R. R. P. Karn, **R. K. Sanodiya**, T. Sharma, *et al.*, "A feature and parameter selection approach for visual domain adaptation using particle swarm optimization," in *2022 IEEE Congress on Evolutionary Computation (CEC)*, IEEE, 2022, pp. 1–7. [DOI: 10.1109/CEC55065.2022.9870263](https://doi.org/10.1109/CEC55065.2022.9870263).
- 13 R. Lekshmi, **R. K. Sanodiya**, B. R. Jose, and J. Mathew, "Joint cross-domain preserving and distribution adaptation for heterogeneous domain adaptation," in *2022 IEEE 19th India Council International Conference (INDICON)*, IEEE, 2022, pp. 1–6. [DOI: 10.1109/INDICON56171.2022.10039779](https://doi.org/10.1109/INDICON56171.2022.10039779).
- 14 S. Mishra and **R. K. Sanodiya**, "Scatter matrix normalization for unsupervised domain adaptation," in *2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, IEEE, 2022, pp. 1–6. [DOI: 10.1109/UPCON56432.2022.9986396](https://doi.org/10.1109/UPCON56432.2022.9986396).
- 15 R. Satya Rajendra Singh, **R. K. Sanodiya**, and P. Arun, "Joint geometrical and statistical alignment using triplet loss for deep domain adaptation," in *Responsible Data Science: Select Proceedings of ICDSE 2021*, Springer, 2022, pp. 119–130. [DOI: 10.1007/978-981-19-4453-6_8](https://doi.org/10.1007/978-981-19-4453-6_8).
- 16 R. Lekshmi, **R. K. Sanodiya**, R. Linda, B. R. Jose, and J. Mathew, "Kernelized transfer feature learning on manifolds," in *Neural Information Processing: 28th International Conference, ICONIP 2021, Sanur, Bali, Indonesia, December 8–12, 2021, Proceedings, Part II 28*, Springer, 2021, pp. 297–308. [DOI: 10.1007/978-3-030-92270-2_26](https://doi.org/10.1007/978-3-030-92270-2_26).
- 17 **R. K. Sanodiya**, V. V. Gottumukkala, L. D. Kurugundla, P. R. Dhansri, R. R. P. Karn, and L. Yao, "A novel multi-source domain learning approach to unsupervised deep domain adaptation," in *Neural Information Processing: 28th International Conference, ICONIP 2021, Sanur, Bali, Indonesia, December 8–12, 2021, Proceedings, Part V 28*, Springer, 2021, pp. 64–72.
- 18 M. Tiwari, **R. K. Sanodiya**, J. Mathew, and S. Saha, "A particle swarm optimization based feature selection approach for multi-source visual domain adaptation," in *Neural Information Processing: 28th International Conference, ICONIP 2021, Sanur, Bali, Indonesia, December 8–12, 2021, Proceedings, Part V 28*, Springer, 2021, pp. 701–709. [DOI: 10.1007/978-3-030-92307-5_82](https://doi.org/10.1007/978-3-030-92307-5_82).
- 19 M. Tiwari, **R. K. Sanodiya**, J. Mathew, and S. Saha, "Multi-source based approach for visual domain adaptation," in *2021 International Joint Conference on Neural Networks (IJCNN)*, IEEE, 2021, pp. 1–7. [DOI: 10.1109/IJCNN52387.2021.9534305](https://doi.org/10.1109/IJCNN52387.2021.9534305).

- 20 L. Yao, S. Prasad, **R. K. Sanodiya**, and D. Paul, “Statistical and geometrical alignment for unsupervised deep domain adaptation,” in *Proceedings of International Conference on Machine Intelligence and Data Science Applications: MIDAS 2020*, Springer, 2021, pp. 433–444.  DOI: [10.1007/978-981-33-4087-9_37](https://doi.org/10.1007/978-981-33-4087-9_37).
- 21 **R. K. Sanodiya**, P. Kumar, M. Tiwari, L. Yao, and J. Mathew, “A modified joint geometrical and statistical alignment approach for low-resolution face recognition,” in *Neural Information Processing: 27th International Conference, ICONIP 2020, Bangkok, Thailand, November 23–27, 2020, Proceedings, Part I 27*, Springer, 2020, pp. 88–100.  DOI: [10.1007/978-3-030-63830-6_8](https://doi.org/10.1007/978-3-030-63830-6_8).
- 22 **R. K. Sanodiya**, A. Mathew, J. Mathew, and M. Khushi, “Statistical and geometrical alignment using metric learning in domain adaptation,” in *2020 International Joint Conference on Neural Networks (IJCNN)*, IEEE, 2020, pp. 1–8.  DOI: [10.1109/IJCNN48605.2020.9206877](https://doi.org/10.1109/IJCNN48605.2020.9206877).
- 23 **R. K. Sanodiya**, D. Paul, L. Yao, J. Mathew, and A. Juhi, “A feature selection approach to visual domain adaptation in classification,” in *Neural Information Processing: 27th International Conference, ICONIP 2020, Bangkok, Thailand, November 23–27, 2020, Proceedings, Part II 27*, Springer, 2020, pp. 77–89.  DOI: [10.1007/978-3-030-63833-7_7](https://doi.org/10.1007/978-3-030-63833-7_7).
- 24 **R. K. Sanodiya**, S. Saha, J. Mathew, M. D. Thalakkottur, and U. Aadya, “Multi-objective approach for semi-supervised discriminant analysis with relative distance,” in *2019 IEEE Congress on Evolutionary Computation (CEC)*, IEEE, 2019, pp. 2808–2815.  DOI: [10.1109/CEC.2019.8790027](https://doi.org/10.1109/CEC.2019.8790027).
- 25 **R. K. Sanodiya**, C. Sharma, and J. Mathew, “Unified framework for visual domain adaptation using globality-locality preserving projections,” in *Neural Information Processing: 26th International Conference, ICONIP 2019, Sydney, NSW, Australia, December 12–15, 2019, Proceedings, Part I 26*, Springer, 2019, pp. 340–351.  DOI: [10.1007/978-3-030-36708-4_28](https://doi.org/10.1007/978-3-030-36708-4_28).
- 26 **R. K. Sanodiya**, M. D. Thalakkottur, J. Mathew, and M. Khushi, “Semi-supervised regularized coplanar discriminant analysis,” in *Neural Information Processing: 26th International Conference, ICONIP 2019, Sydney, NSW, Australia, December 12–15, 2019, Proceedings, Part V 26*, Springer, 2019, pp. 198–205.  DOI: [10.1007/978-3-030-36802-9_22](https://doi.org/10.1007/978-3-030-36802-9_22).
- 27 **R. K. Sanodiya**, S. Saha, and J. Mathew, “A multi-kernel semi-supervised metric learning using multi-objective optimization approach,” in *Neural Information Processing: 25th International Conference, ICONIP 2018, Siem Reap, Cambodia, December 13–16, 2018, Proceedings, Part II 25*, Springer, 2018, pp. 530–541.  DOI: [10.1007/978-3-030-04179-3_47](https://doi.org/10.1007/978-3-030-04179-3_47).
- 28 **R. K. Sanodiya**, S. Saha, J. Mathew, and P. Bangwal, “Semi-supervised transfer metric learning with relative constraints,” in *Neural Information Processing: 25th International Conference, ICONIP 2018, Siem Reap, Cambodia, December 13–16, 2018, Proceedings, Part III 25*, Springer, 2018, pp. 230–241.  DOI: [10.1007/978-3-030-04182-3_21](https://doi.org/10.1007/978-3-030-04182-3_21).
- 29 **R. K. Sanodiya**, S. Saha, J. Mathew, and A. Raj, “Supervised and semi-supervised multi-task binary classification,” in *Neural Information Processing: 25th International Conference, ICONIP 2018, Siem Reap, Cambodia, December 13–16, 2018, Proceedings, Part IV 25*, Springer, 2018, pp. 380–391.  DOI: [10.1007/978-3-030-04212-7_33](https://doi.org/10.1007/978-3-030-04212-7_33).

Skills

Languages	 Strong reading, writing and speaking competencies for English and Hindi.
Coding	 C/C++, Java, PHP, Python, \LaTeX , ...
Tools and Library	 MATLAB, TensorFlow, Pytorch.
Web Dev	 HTML, css, JavaScript, React
Misc.	 Academic research, teaching, organizing workshops, mentoring, \LaTeX typesetting and publishing.

Miscellaneous Experience

Professional Recognition/ Award/Prize/Certificate, Fellowship

- 2023
 - **Convener**, [One-week International Research Workshop on Advances in Deep Learning and Applications WADLA 2023](#)
 - **Coordinator**, AI/ML.
 - **Session Chair**, IEEE IJCNN Conference-2023.

 - **Co-Convener**, 14-25 March 2023, ATAL Faculty Development Program.
 - **International Travel Grant by SERB**, To attend IJCNN Conference held at Queensland, Australia

- 2022
 - **Convener**, [One-week International Research Workshop on Advances in Deep Learning and Applications WADLA 2022](#)

- 2021
 - **Co-Convener**, [One-week International Research Workshop on Advances in Deep Learning and Applications WADLA 2021](#)

- 2019
 - **Postdoctoral Fellowship**, NTU Singapore
 - **International Travel Grant by CSIR**, To attend CEC Conference held at Wellington, New Zealand
 - **International Travel Grant by SERB**, To attend ICONIP Conference held at Sydney, Australia

- 2018
 - **International Travel Grant by MHRD**, To attend ICONIP Conference held at Siem Reap, Cambodia
 - **2nd Runners Up National Award**, OpenGovDATAhack

- 2017
 - **First Prize**, Smart India Hackathon
 - **Second Prize**, International IoT Grant Challenge

- 2012-2016
 - **Qualified GATE-2017**
 - **Qualified GATE**: 2016, 2015, 2014, 2012
UGC-JRF-2015
NET: Dec-2015, June-2015, Dec-2014, June-2014

Service

- 2023
 - **Reviewer**
Conferences: IJCNN-23, PReMI-23
Journals: Pattern Letter-Recognition, [Artificial Intelligence](#), BMC Bioinformatics, Information Fusion, Neural Processing Letters, IEEE Transactions on Industrial Informatics, [Machine Learning](#), [Transaction on Asian and Low-Resource Language Information Processing](#)

- 2020-2023
 - **Organizing Committee**: Technical Program Co-Chairs at 11th Edition of ESDC-2023

 - **Mentor**:
Students of IIIT Sri City
Gradient (Coding Club)
Nandha Infotech Startup Company (by MeitY Start-up Hub - TIDE 2.0 Scheme)

Miscellaneous Experience (continued)

📌 **Session Chair:** 11th Edition of ESDC-2023

📌 **Workshop Speaker:** 13 to 25 Feb 2023, ATAL Faculty Development Programme

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