

Vinay P. Namboodiri

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Current position

Senior Lecturer (equivalent to Associate Professor),
Computer Science, University of Bath and the Visual Computing Research Group Lead (13 faculty).

Area of specialization

Computer Vision and Machine Learning

Appointments held

Jan 2020 -	Faculty member, presently Senior Lecturer (equivalent to Associate Professor), Computer Science, University of Bath
2018-2020	Associate Professor, CSE, IIT Kanpur
2013 - 2018	Assistant Professor, CSE, IIT Kanpur
2011 - 2013	Researcher, Bell Labs, Antwerp
2008 - 2011	Post-doctoral fellow, KU Leuven
2003 - 2008	Research Assistant, EE, IIT Bombay
1999 - 2003	Staff Scientist, NCST, Bombay

Education

2008	PhD in Electrical Engineering, IIT Bombay
2003	M.Tech. in Computer Science and Engineering, IIT Bombay
1999	APGDST from National Centre for Software Technology (NCST), Mumbai
1998	PGDST from National Centre for Software Technology (NCST), Mumbai
1997	B.E. in Electronics Engineering, University of Mumbai (<i>First Class with honours</i>)

Grants, honors & awards

2023	\$20,000 Grant received from Microsoft research from the Accelerate Foundation Models Research (AFMR) program. This was enhanced to \$40,000 based on the progress.
2022	Outstanding Ph.D. thesis in IIT Kanpur awarded to Ph.D. students Pratik Mazumder
2021	Outstanding Ph.D. thesis in IIT Kanpur awarded to Ph.D. students Pravendra Singh and Vinod

Kumar Kurmi

2020 Senior membership, IEEE and IUPRAI best PhD thesis awarded to PhD student Badri Patro
2019 with Gunjan Kholapure won the 'Argoverse tracking challenge' at NeurIPS (MLAD) Workshop
2016 Senate commendation for teaching Computer Vision at IIT Kanpur
2016 One of the outstanding reviewers selected in IJCAI 2016
2015 Technology was transferred and a company was started based on the research called VisageMap
that was taken over by a US based firm FaceFirst based in Los Angeles.
2011 Won the best paper in British Machine Vision Conference with Hakan Bilen and Luc Van Gool
2007 UKIERI fellowship for visiting UCL, UK
2007 Prize from Microsoft Research at Techvista 2007

Funded Projects

1. PI in a Samsung funded project on Palmprint Verification with Prof. Phalguni Gupta as Co-PI. Duration one year. Completed
2. PI in a Indian Space Research Organisation (ISRO) funded project on 3D reconstruction from Satellite Images with Prof. Phalguni Gupta as Co-PI. Duration 3 years. Completed
3. PI in a Samsung funded project on Language and Vision for one year as PI with Prof. Tanaya Guha as co-PI. Completed.
4. PI in a Samsung funded project on Action Recognition in 360° videos for one year as PI. Completed.
5. PI in a Hitachi funded project on Compression in Deep Learning as PI. Completed.
6. PI in an Indian defence (DRDO) funded project on Abnormal activity understanding as PI with Prof. Venkatesh as co-PI. Completed.
7. PI in a Samsung funded project on Efficient Activity Recognition for one year as PI.
8. PI in a DST Extra Mural research project on natural language based safe streets project.
9. Co-Investigator in an MRC funded project led by Prof. Darren Cosker at University of Bath and Prof. Isabel Marechal as PI at QMUL
10. Co-Investigator in an Innovate UK project with BBFC led by Dr. Julian Padget as PI.
11. PI in an Innovate-UK funded project: "Feasibility study on improving video production process using data-efficient Generative-AI models" with a company DeepReel based in London, UK.

Selected Publications

JOURNAL ARTICLES

1. Alexey Kravets, Vinay P. Namboodiri, "Zero-shot CLIP Class Forgetting via Text-image Space Adaptation", *Transactions on Machine Learning Research*, 2025.
2. Pratik Mazumder, Pravendra Singh, Piyush Rai, Vinay P. Namboodiri, "Rectification-based Knowledge Retention for Task Incremental Learning", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 46(3): 1561-1575 (2024).

3. Bipasha Sen, Aditya Agarwal, Vinay P Namboodiri, C.V. Jawahar, "INR-V: A Continuous Representation Space for Video-based Generative Tasks", *Transactions on Machine Learning Research*, 2022
4. Badri N. Patro, Anupriy, Vinay P. Namboodiri, "Explanation vs. attention: A two-player game to obtain attention for VQA and visual dialog", *Pattern Recognition* 132: 108898, 2022
5. Badri N. Patro, Dev Chauhan, Vinod K. Kurmi, Vinay P. Namboodiri, "Revisiting paraphrase question generator using pairwise discriminator.", *Neurocomputing* 420: 149-161 2021
6. Badri N. Patro, Anupriy, Vinay P. Namboodiri, "Probabilistic framework for solving visual dialog". *Pattern Recognit.* 110: 107586 2021
7. B.N. Patro, M. Lunayach, V.P. Namboodiri, "Uncertainty-CAM: Visual Explanation using Uncertainty based Class Activation Maps", *IEEE Transactions on Image Processing*, 30: 1910-1924 2021
8. P. Singh, V.S.R. Kadi, V.P. Namboodiri, "FALF ConvNets: Fatuous Auxiliary Loss based Filter-pruning for Efficient Deep CNNs", *Image and Vision Computing (IMAVIS-Journal)*, 2019
9. P. Singh, V. K. Verma, P. Rai and V.P. Namboodiri, "HetConv: Beyond Homogeneous Convolution Kernels for Deep CNNs", *International Journal of Computer Vision (IJCV)*, 128(8): 2068-2088, 2020.
10. A. Jha, V.P. Namboodiri and C.V. Jawahar "Spotting Words in Real World Videos : A Retrieval based approach", *Machine Vision and Applications, special issue for selected papers from WACV 2018*, accepted in 2018
11. R. Arora, I. Darolia, V.P. Namboodiri, K. Singh and A. Bousseau, "SketchSoup: Exploratory Ideation Using Design Sketches", *Computer Graphics Forum*, 2017.
12. H. Bilen, V.P. Namboodiri and L. Van Gool, "Object and Action Categorisation with Latent Window Parameters", *International Journal of Computer Vision*, Vol. 106, Issue 3, pp 237-251, February 2014.
13. V. P. Namboodiri and S. Chaudhuri, "On Defocus, Diffusion and Depth Estimation", *Pattern Recognition Letters*, Vol. 28, Issue 3, pp. 311-319, February 2007.
14. RajaShekhar, S. Chaudhuri and V.P. Namboodiri, "Retrieval of Man-Made Structures Based on Projective Invariance", *Pattern Recognition*, Vol. 40, pp. 296-308, 2007.

CONFERENCE PAPERS

1. Utsav Singh, Vinay P. Namboodiri, "PEAR: Primitive Enabled Adaptive Relabeling for Boosting Hierarchical Reinforcement Learning", *International Conference on Learning Representations (ICLR)*, 2025.
2. Jack Saunders, Charlie Hewitt, Yanan Jian, Marek Kowalski, Tadas Baltrušaitis, Yiye Chen, Darren Cosker, Virginia Estellers, Nicholas Gyde, Vinay Namboodiri, Benjamin Lundell, "GASP: Gaussian Avatars with Synthetic Priors", *CVPR*, 2025.
3. Diljeet Jagpal, Xi Chen, Vinay P. Namboodiri, "EIDT-V: Exploiting Intersections in Diffusion Trajectories for Model-Agnostic, Zero-Shot, Training-Free Text-to-Video Generation", *CVPR*, 2025.

4. Utsav Singh, Wesley A. Suttle, Brian M. Sadler, Vinay P. Namboodiri, Amrit S. Bedi, "PIPER: Primitive-Informed Preference-based Hierarchical Reinforcement Learning via Hindsight Relabeling". *International Conference on Machine Learning (ICML)* 2024.
5. Sai Niranjan Ramachandran, Rudrabha Mukhopadhyay, Madhav Agarwal, C.V. Jawahar, Vinay Namboodiri, "Understanding the Generalization of Pretrained Diffusion Models on Out-of-Distribution Data", *Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI)*, 2024.
6. Avideep Mukherjee, Soumya Banerjee, Piyush Rai, Vinay P. Namboodiri, "RISSOLE: Parameter-efficient Diffusion Models via Block-wise Generation and Retrieval-Guidance", *BMVC* 2024.
7. Alexey Kravets, Vinay P. Namboodiri, "CLIP Adaptation by Intra-modal Overlap Reduction", *BMVC* 2024.
8. Jack Saunders, Vinay P. Namboodiri, "TalkLoRA: Low-Rank Adaptation for Speech-Driven Animation", *BMVC* 2024.
9. Sindhu B. Hegde, Rudrabha Mukhopadhyay, C. V. Jawahar, Vinay P. Namboodiri, "Towards Accurate Lip-to-Speech Synthesis in-the-Wild", *ACM Multimedia 2023: pp 5523-5531*, 2023
10. Soumya Banerjee, Vinay Kumar Verma, Vinay P. Namboodiri, *Proc. of International Conference on Robotics and Automation (ICRA)*, 2023.
11. Jack Saunders, Vinay P. Namboodiri, "READ Avatars: Realistic Emotion-controllable Audio Driven Avatars", *Proceedings of British Machine Vision Conference*, 2023.
12. Avideep Mukherjee, Badri Patro, Vinay P. Namboodiri, "Attentive Contractive Flow with Lipschitz-constrained Self-Attention", *Proceedings of British Machine Vision Conference*, 2023. "Streaming LifeLong Learning With Any-Time Inference", *ICRA 2023: 9486-9492*, 2023
13. Aditya Agarwal, Bipasha Sen, Rudrabha Mukhopadhyay, Vinay P. Namboodiri, C. V. Jawahar, "Towards MOOCs for Lip Reading: Using Synthetic Talking Heads to Train Humans in Lipreading at Scale.", *IEEE Winter Conference on Applications in Computer Vision (WACV)*, 2023
14. Aditya Agarwal, Bipasha Sen, Rudrabha Mukhopadhyay, Vinay P. Namboodiri, C. V. Jawahar, "FaceOff: A Video-to-Video Face Swapping System.", *IEEE Winter Conference on Applications in Computer Vision (WACV)*, 2023
15. Sindhu B. Hegde, K. R. Prajwal, Rudrabha Mukhopadhyay, Vinay P. Namboodiri, C. V. Jawahar, "Lip-to-Speech Synthesis for Arbitrary Speakers in the Wild.", *Proceedings of ACM Multimedia*, 2022
16. Sindhu B. Hegde, Rudrabha Mukhopadhyay, Vinay P. Namboodiri, C. V. Jawahar, "Extreme-scale Talking-Face Video Upsampling with Audio-Visual Priors", *Proceedings of ACM Multimedia*, 2022
17. Vinod K Kurmi, Rishabh Sharma, Yash Vardhan Sharma, Vinay P Namboodiri, "Gradient Based Activations for Accurate Bias-Free Learning", *Proceedings of the AAAI Conference on Artificial Intelligence*, (AAAI), Vancouver BC, Canada, 2022
18. Pratik Mazumder, Pravendra Singh, Vinay P. Namboodiri, "Fair Visual Recognition in Limited Data Regime using Self-Supervision and Self-Distillation", *IEEE Winter Conference on Applications in Computer Vision (WACV)*, 2022

19. Rudrabha Mukhopadhyay, Sindhu Hegde, Vinay Namboodiri, C.V. Jawahar, “ Audio-Visual Speech Super-Resolution”, *British Machine Vision Conference (BMVC)*, 2021
20. Bipasha Sen, Aditya Agarwal, Rudrabha Mukhopadhyay, Vinay Namboodiri, C.V. Jawahar, “ Personalized One-Shot Lipreading for an ALS Patient”, *British Machine Vision Conference (BMVC)*, 2021
21. Pravendra Singh, Pratik Mazumder, Piyush Rai, Vinay P. Namboodiri: Rectification-Based Knowledge Retention for Continual Learning. *CVPR 2021*: 15282-15291
22. Mohammed Asad Karim, Vinay Kumar Verma, Pravendra Singh, Vinay Namboodiri, Piyush Rai, “Knowledge Consolidation based Class Incremental Online Learning with Limited Data.” *IJCAI 2021*: 2621-2627
23. Vinod K. Kurmi, Venkatesh K. Subramanian, Vinay P. Namboodiri, “ Domain Impression: A Source Data Free Domain Adaptation Method.” *WACV 2021*: 615-625
24. Vinod K. Kurmi, Badri N. Patro, Venkatesh K. Subramanian, Vinay P. Namboodiri, “Do not Forget to Attend to Uncertainty while Mitigating Catastrophic Forgetting.” *WACV 2021*: 736-745
25. Sindhu B. Hegde, K. R. Prajwal, Rudrabha Mukhopadhyay, Vinay Namboodiri, C. V. Jawahar, “Visual Speech Enhancement Without A Real Visual Stream.” *WACV 2021*: 1925-1934
26. Pratik Mazumder, Pravendra Singh, Vinay P. Namboodiri, “RNNP: A Robust Few-Shot Learning Approach.” *WACV 2021*: 2663-2672
27. Raghav Brahmadesam Venkataramaiyer, Abhishek Joshi, Saisha Narang, Vinay P. Namboodiri, “SHAD3S: A model to Sketch, Shade and Shadow.” *WACV 2021*: 3615-3624
28. Arnab Ghosh, Harkirat S. Behl, Emilien Dupont, Philip H. S. Torr, Vinay Namboodiri, “STEER : Simple Temporal Regularization For Neural ODE”, *Proceedings of Neural Information Processing Systems Conference (NeurIPS)*, 2020
29. K. R. Prajwal, Rudrabha Mukhopadhyay, Vinay P. Namboodiri, C. V. Jawahar, “ Learning Individual Speaking Styles for Accurate Lip to Speech Synthesis”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020: pages 13793-13802
30. K. R. Prajwal, Rudrabha Mukhopadhyay, Vinay P. Namboodiri, C. V. Jawahar, “A Lip Sync Expert Is All You Need for Speech to Lip Generation In the Wild.”, *Proceedings of ACM Multimedia 2020* pages: 484-492, 2020
31. Riddhiman Dasgupta, Francis Tom, Sudhir Kumar, Mithun Das Gupta, Yokesh Kumar, Badri N. Patro, Vinay P. Namboodiri, “Visually Precise Query”, *Proceedings of ACM Multimedia 2020*, pages 3550-3558, 2020
32. Badri N. Patro, Anupriy, Vinay P. Namboodiri, “Explanation vs Attention: A Two-Player Game to Obtain Attention for VQA”, *Proceedings of Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-20)*, New York, USA (AAAI), February 2020.
33. B.V. Raghav, S. Kumar and V.P. Namboodiri, “Can I teach a robot to replicate line art”, *IEEE Winter Conference on Applications of Computer Vision (WACV)*, Colorado, United States, 2020.
34. P. Singh, V.K. Verma, P. Rai and V.P. Namboodiri, “Leveraging Filter Correlations for Deep Model Compression”, *IEEE Winter Conference on Applications of Computer Vision (WACV)*, Colorado, United States, 2020.

35. Ravindra Yadav, Ashish Sardana, Vinay P. Namboodiri and Rajesh M Hegde "Bridged Variational Autoencoders for Joint Modeling of Images and Attributes", IEEE Winter Conference on Applications of Computer Vision (WACV), Colorado, United States, 2020.
36. Badri Patro, Vinod Kurmi, Sandeep Kumar and Vinay P. Namboodiri "Deep Bayesian Network for Visual Question Generation", IEEE Winter Conference on Applications of Computer Vision (WACV), Colorado, United States, 2020.
37. Prajwal Renukanand, Rudrabha Mukhopadhyay, Jerin Philip, Abhishek Jha, Vinay Namboodiri and C.V. Jawahar, "Towards Automatic Face-to-Face Translation", ACM Multimedia, Nice, France, 2019.
38. B. N. Patro, Mayank Lunayach, Shivansh Patel, Vinay P. Namboodiri, "U-CAM: Visual Explanation using Uncertainty based Class Activation Map", International Conference on Computer Vision (ICCV), Seoul, Korea, 2019.
39. P. Singh, V.K. Verma, P. Rai and V.P. Namboodiri, "HetConv: Heterogeneous Kernel-Based Convolutions for Deep CNNs", IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, USA, 2019.
40. V.K. Kurmi, S. Kumar and V.P. Namboodiri, "Attending to Discriminative Certainty for Domain Adaptation", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, California, USA, 2019.
41. B.N. Patro, V.K. Kurmi, S. Kumar and V.P. Namboodiri, "Multimodal Differential Network for Visual Question Generation", Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP 2018), Brussels, Belgium, 2018.
42. S. Roy, A. Unmesh and V.P. Namboodiri "Deep Active Learning for Object Detection", Proceedings of British Machine Vision Conference (BMVC), Newcastle, UK, 2018.
43. A. Jamal, V.P. Namboodiri, D. Deodhare and K.S. Venkatesh "Deep Domain Adaptation in Action Space", Proceedings of British Machine Vision Conference (BMVC), Newcastle, UK, 2018.
44. B.N. Patro, V.K. Kurmi, S. Kumar and V.P. Namboodiri, "Learning Semantic Sentence Embeddings using Pair-wise Discriminator", 27th International Conference on Computational Linguistics (COLING 2018), Santa Fe, New Mexico, USA, 2018.
45. B. Patro and V.P. Namboodiri, "Differential Attention for Visual Question Answering", Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Salt Lake City, Utah, USA, 2018.
46. A. Ghosh, V. Kulharia, V.P. Namboodiri, P. H. S. Torr, and P. K. Dokania, "Multi-Agent Diverse Generative Adversarial Networks", Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Salt Lake City, Utah, USA, 2018.
47. S. Sharma and V.P. Namboodiri, "No Modes left behind: Capturing the data distribution effectively using GANs", Proceedings of Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, USA, February 2018.
48. A. Jha, V.P. Namboodiri, C.V. Jawahar, "Word Spotting in Silent Lip Videos". Proceedings of Winter Conference on Applications of Computer Vision (WACV), Lake Tahoe, Nevada, USA, 2018.
49. A. Ghosh, V. Kulharia, A. Mukerjee, V.P. Namboodiri, M. Bansal, "Contextual RNN-GANs for Abstract Reasoning Diagram Generation", Proceedings of Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17), San Francisco, California, USA, February 2017.

50. Y. Dolma and V.P. Namboodiri, "Gaussian Processes to Improve Zero-Shot Learning with Relative Attributes", Proceedings of Asian Conference in Computer Vision (ACCV), Taipei, Taiwan, 2016.
51. Anant Raj, Vinay P. Namboodiri and Tinne Tuytelaars, "Subspace Alignment based Domain Adaptation for RCNN Detector", Proceedings of British Machine Vision Conference (BMVC 2015), Swansea, UK, 2015.
52. H. Bilen, M. Pedersoli, V. P. Namboodiri, T. Tuytelaars, L. Van Gool, "Object Classification with Adaptable Regions", Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2014.
53. V. De Smet, V.P. Namboodiri and L. Van Gool, "Nonuniform Image Patch Exemplars for Low Level Vision", Proc. of IEEE Workshop on Applications of Computer Vision (WACV), Florida, USA, 2013.
54. H. Bilen, V.P. Namboodiri, and L. Van Gool, "Classification with Global, Local and Shared Features", Proc. of DAGM-OAGM, Austria, 2012.
55. H. Bilen, V. P. Namboodiri and L. Van Gool, "Object and Action Categorisation with Latent Variables", Proc. of British Machine Vision Conference (BMVC), Dundee, UK, 2011.
56. H. Bilen, V. P. Namboodiri and L. Van Gool, "Action Recognition: An explicit region tracking based approach", Proc. of IEEE Workshop on Applications of Computer Vision (WACV), Hawaii, USA, 2011.
57. V. P. Namboodiri and S. Chaudhuri, "Recovery of relative depth from a single observation using an uncalibrated (real-aperture) camera", Proc. of IEEE Intl. Conf. on Computer Vision and Pattern Recognition (CVPR), Anchorage, Alaska, USA, 2008.
58. V. P. Namboodiri and S. Chaudhuri, "Shape Recovery Using Stochastic Heat Flow", Proc. of British Machine Vision Conference (BMVC), Warwick, UK, 2007.
59. P. Chatterjee, V. P. Namboodiri and S. Chaudhuri, "Super-resolution Using Sub-band Constrained Total Variation", Proc. of 1st Scale Space and Variational Methods (SSVM) Conference, Ischia, Italy, 2007.
60. V. P. Namboodiri and S. Chaudhuri, "Shock Filters based on Implicit Cluster Separation", Proc. of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), San Diego, 2005.

PATENTS

1. European patent application No. 12305768.9 and US patent application no. US20150324952A1 - 'Method and system for generating a high resolution video stream', V.P. Namboodiri, N. Verzijp, J-F Macq, P.R. Alface, E. Six.
2. European Patent Application No. 12305740.8 - 'Method and system for generating multimedia descriptors', V.P. Namboodiri, D. Tytgat, S. Lievens, E. Six.
3. European Patent Application No. EP2693746A1 - 'Method and apparatus for enabling visual mute of a participant during video conferencing', S. Lievens, D. Tytgat, M. Aerts, V.P. Namboodiri, E. Six

4. European Patent Application No. EP2854383B1- 'Method And Devices For Attention Alert Actuation', D. Tytgat, S. Lievens, M. Aerts, V.P. Namboodiri
5. European patent application No. EP2933779A1- 'Capturing an environment with objects', P.R. Alface, M. Aerts, V.P. Namboodiri
6. European patent application No. EP2869546A1 - ' Method and system for providing access to auxiliary information', V.P. Namboodiri, D. Tytgat, M. Aerts, S. Lievens
7. US Patent Application No. US9535929B2- 'Method and arrangement for image retrieval based on multiple images', V.P. Namboodiri, M. Feki, E. Six.
8. European Patent Application No. EP2869213A1- 'Media content ordering system and method for ordering media content', V.P. Namboodiri, P.R. Alface, M. Aerts
9. European Patent Application No. EP2793105A1 - 'Controlling a user interface of an interactive device', M. Aerts, S. Lievens, V.P. Namboodiri, D. Tytgat
10. European Patent Application No. EP2905937A1 - ' Efficient and scalable caching and representation of media with cross-similarities', M. Aerts, P.R. Alface, V.P. Namboodiri
11. European Patent Application No. EP2854396A1 - 'Method and devices for determining visual attention in multi-location video conferencing', D. Tytgat, S. Lievens M. Aerts V.P. Namboodiri

Teaching

- February 2025 - June 2025 - CM30080 - Computer Vision
- February 2025 - June 2025 - CM50265 - Introduction to Machine Learning - 2
- February 2024 - June 2024 - CM30080 - Computer Vision
- February 2024 - June 2024 - CM50265 - Introduction to Machine Learning - 2
- February 2023 - June 2023 - CM30080 - Computer Vision
- October 2022 - January 2023 - CM20219 - Fundamentals of Visual Computing
- February 2021 - June 2021, February - June 2022 - CM50265 Introduction to Machine Learning - 2
- February 2022- June 2022 - CM20317 - Artificial Intelligence -2
- February 2022 - June 2022 - CM30080 - Computer Vision
- February 2021 - June 2021 - CM50263/CM20252 - Artificial Intelligence
- September 2020 - June 2021 - CM500324 - Online Module on Principles of Programming in AI
- February 2020 - June 2020 - CM30229 Integrated Control and Cognition Systems
- December - April, Spring 2014, Spring 2016: CS 676, Introduction to Computer Vision
- July- November, Fall 2014, January - April, Spring 2018: CS 360, July - November, Fall 2019 Introduction to Computer Graphics

- December - April, Spring 2015: CS 678, Machine Learning for Computer Vision
- July- November, Fall 2015, January - April, Spring 2018, July - November, Fall 2019: CS 360, Introduction to Computer Graphics
- December - April, Spring 2016: CS 676, Introduction to Computer Vision
- July- November, Fall 2016: ESC 101, Fundamentals of Computing
- January- April, Spring and July - November, Fall 2017, January - April Spring 2019 : CS 783, Visual Recognition,

Service to the profession

1. Action Editor for Transactions on Machine Learning Research
2. Senior Area Chair for ICCV 2025.
3. Area Chair for NeurIPS 2025, 2024, 2023.
4. Area Chair for CVPR 2025, 2023, 2022, 2020
5. Organiser, BMVA Symposium on Digital Humans, 2025.
6. Associate Editor for Pattern Recognition Journal
7. Serving as Area Chair for ECCV 2024
8. Served as Area Chair for ICCV 2023, 2021.
9. Served as Area Chair for BMVC 2024, 2023, 2022, 2021, 2020.
10. Served as Area Chair for ICVGIP 2022
11. Served as Area Chair for WACV 2022, 2016
12. Served as Senior Program Committee member for AAAI 2020, 2021 and 2022.
13. Served as Program Chair for NCVPRIPG 2019
14. Served as Senior Program Committee member for IJCAI 2018
15. Serving as Workshop and Tutorial Chair for ICVGIP 2018.
16. Serving as Area Chair for ACCV 2018.
17. Serving as Area Chair for ICVGIP 2018.
18. Co-organized the Mysore Park workshop on Vision, Language and AI in December 2016 that was sponsored by Google and Infosys
19. Co-organized the ACCV 2016 workshop on Assistive Vision
20. Served as an Area Chair for the ICVGIP 2016 conference
21. Co-organized CVIT Summer Schools on AI, Machine Learning and Computer Vision since 2017 to-date (except 2020 when it was not held).
22. Served as reviewer or program committee member for several journals (such as IEEE Trans. on Image Processing, IEEE Trans. on PAMI, CVIU, IJCV) and several conferences (such as CVPR, ECCV, ICCV, IJCAI, NIPS, ICML, ICLR).

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