Tam V. Nguyen

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Department of Computer Science
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Education

2011–2013 **PhD.**, *National University of Singapore (NUS)*, Singapore.
- Department of Electrical and Computer Engineering
- Advisor: Prof. Shuicheng Yan

2007–2009 **M.Eng.**, *Chonnam National University*, South Korea.
- Department of Electronics and Computer Engineering
- Advisor: Prof. Deokjai Choi
- Rank: 1/50

2001–2005 **BSc.**, *University of Science*, Vietnam.
- Department of Software Engineering
- Advisor: Prof. Duc Anh Duong and Prof. Minh-Triet Tran
- Rank: 1/250

Professional Appointments

08/2016– present **Assistant Professor (tenure-track)**, *Department of Computer Science*, University of Dayton (UD).
Deliver lectures in programming, data structures, data visualization, visual computing and mixed reality, image processing, artificial intelligence and deep learning
Conduct research on artificial intelligence, computer vision, machine learning, deep learning, virtual/augmented reality
Write research proposals for funding.

12/2013– 07/2016 **Research Scientist**, *Applied Research & Technology for Infocomm Centre*, Singapore Polytechnic, Singapore.
Lead and manage research projects in ARTIC centre, conduct research on computer vision (image parsing, action recognition, visual saliency, and face analysis), machine learning (attribute learning, applied deep learning), augmented reality and multimedia
Write proposals for funding from various agencies.

12/2014– 07/2016 **Adjunct Lecturer**, *National University of Singapore*, Singapore.
Deliver lectures of EE5907R - Pattern Recognition class

07/2013– 12/2013 **Postdoc Researcher**, *National University of Singapore*, Singapore.
Conduct research on computer vision, machine learning, and multimedia

01/2011– 07/2013 **Graduate Teaching Assistant**, *National University of Singapore*, Singapore.
Teaching Assistant in EE2024 - Programming for Computer Interfaces

07/2010– 01/2011 **Research Engineer**, *National University of Singapore*, Singapore.
Do project on computer vision and augmented reality, especially in natural feature tracking

06/2009– 07/2010 **Senior Software Engineer**, *Harvey Nash*, Vietnam.
Collaborate with Alcatel Lucent on programming NodeB base station

03/2007- 03/2009 **Research Assistant**, *Chonnam National University*, South Korea.
Conduct research on smart home and ubiquitous computing

08/2005- 02/2007 **Assistant Lecturer**, *University of Science*, Vietnam.
Deliver lectures in programming, data structure, and software engineering courses

Funded Research Grants

08/2020 - 07/2022   **Principal Investigator**, *EAGER: Crowd-AI Sensing Based Traffic Analysis for HCMC Planning Simulation.*
National Science Foundation (NSF) – $248,000

08/2020 - 08/2021   **Principal Investigator**, *AI-assisted system for crystal growth.*
Lam Research – $25,000

05/2020– 08/2020   **Principal Investigator**, *A retargeting framework for human detection in the distracted environment.*
UD Research Council Seed Grant – $6,500

10/2019– 09/2022   **Senior Personnel**, *Large-scale Visual Data Annotation Platform for Artificial Intelligence Applications.*
Vingroup Innovation Foundation (VINIF) – $280,000

05/2019– 05/2020   **Co-Principal Investigator**, *Developing Number E-Books Using Adaptive Technology.*
UD STEM Catalyst Grant – $37,085

05/2019– 08/2019   **Principal Investigator**, *Mixed Reality Application for Non-Destructive Evaluation Training.*
UDRI and College of Arts and Sciences Fellowship – $13,500

05/2018– 08/2018   **Principal Investigator**, *A deep learning based framework for camouflaged object detection.*
UD Research Council Seed Grant – $6,500

05/2017– 05/2018   **Principal Investigator**, *A framework for object segment collage CAPTCHA.*
UD STEM Catalyst Grant – $14,405

08/2017– 12/2017   **Principal Investigator**, *Visual Computing and Mixed Reality.*
UD Experiential Learning Innovation Fund

04/2017– 07/2017   **Principal Investigator**, *Deep Learning with GPUs.*
NVIDIA GPU Grant

2016–2018   **Principal Investigator**, *DRIS: Dual Reality Interactive Simulator.*
Singapore Ministry of Education – S$313,076

2015–2017   **Principal Investigator**, *Mobile Augmented Reality Interactive Manual.*
Singapore Ministry of Education – S$326,000

2013–2015   **Co-Principal Investigator**, *IOTVIC: Internet of Things Video Cloud for Education.*
Singapore Ministry of Education – S$266,000

Selected Publications

Full publication on Google Scholar: `https://scholar.google.com/citations?user=qIaGn7YAAAAJ`

Book Chapter

1. Edy Portmann, **Tam V. Nguyen**, Jose Sepulveda, Adrian David Cheok, "Fuzzy Online Reputation Analysis Framework", Fuzzy Methods for Customer Relationship Management and Marketing: Applications and Classification. **IGI Global** (book chapter), pp. 117-140, 2013

Journal Articles

2. Dhaval Kadia, Md Zahangir Alom, Ranga Burada, **Tam V. Nguyen**, Vijayan Asari. "R2U3D: Recurrent Residual 3D U-Net for Lung Segmentation", IEEE Access, Vol.9, pp. 88835-88843, 2021, - IF = 3.745 (**SCIE**).

3. **Tam V. Nguyen**, Somaraju Kamma, Vamsi Adari, Tyler Lesthaeghe, Thomas Boehnlein, Victoria Kramb.. "Mixed Reality System for Non-Destructive Evaluation Training", Journal of Virtual Reality, (**VIRE**),

2021, - IF = 3.634 (**SCIE**).

4. Jinnan Yan, Trung-Nghia Le, Khanh-Duy Nguyen, Minh-Triet Tran, Thanh-Toan Do, **Tam V. Nguyen**. "MirrorNet: Bio-Inspired Camouflaged Object Segmentation", IEEE Access, Vol. 9, pp. 43290 - 43300, 2021, - IF = 3.745 (**SCIE**).

5. Yousef I Mohamad, Samah S Baraheem, **Tam V. Nguyen**. "Olympic Games Event Recognition via Transfer Learning with Photobombing Guided Data Augmentation", Journal of Imaging, Vol. 7, 12 pages, 2021 (**E-SCI**).

6. Tuan Hoang, Thanh-Toan Do, **Tam V. Nguyen**, Ngai-Man Cheung. "Unsupervised Deep Cross-modality Spectral Hashing", IEEE Transactions on Image Processing (**T-IP**), 2020, - IF = 9.34 (**SCI**).

7. Samah Baraheem, **Tam V. Nguyen**. "Text-to-image via mask anchor points", Pattern Recognition Letters (**PRL**), Vol. 133, pp. 25-32, 2020, - IF = 2.81 (**SCI**).

8. **Tam V. Nguyen**, Zhe Huang, Saiteja Bethini, Venkata Prasanth, Phu. H. Phung. "Secure CAPTCHAs via Object Segment Collage", IEEE Access, Vol. 8, pp. 84230 - 84238, 2020, - IF = 4.098 (**SCIE**).

9. Khang Nguyen, Nhut T. Huynh, Phat C. Nguyen, Khanh-D. Nguyen, Nguyen D. Vo, **Tam V. Nguyen**. "Detecting Objects from Space: An Evaluation of Deep Learning Modern Approaches", Journal of Electronics, Vol. 9, pp. 583:1-18, 2020, - IF = 1.764 (**SCIE**).

10. Ly Vu, Kha Nguyen, **Tam V. Nguyen**, Tu Nguyen, Fabio Massacci, Phu H. Phung. "HIT4Mal: Hybrid image transformation for malware classification", Transactions on Emerging Telecommunications Technologies (**ETT**), 2020, - IF = 1.258 (**SCIE**).

11. **Tam V. Nguyen**, Khanh Nguyen, Thanh-Toan Do. "Semantic Prior Analysis for Salient Object Detection", IEEE Transactions on Image Processing (**T-IP**), Vol. 28, Issue 6, pp. 3130-3141, 2019, - IF = 6.79 (**SCI**).

12. Trung-Nghia Le, **Tam V. Nguyen**, Zhongliang Nie, Minh-Triet Tran, A. Sugimoto."Anabranch Network for Camouflaged Object Segmentation.", Journal of Computer Vision and Image Understanding (**CVIU**), Vol. 184, pp. 45-56, 2019, IF = 2.645 (**SCI**).

13. Thanh-Toan Do, Tuan Hoang, Dang-Khoa Le, Huu Le, **Tam V. Nguyen**, Ngai-Man Cheung."Simultaneous Feature Aggregating and Hashing for Compact Binary Code Learning.", IEEE Transactions on Image Processing (**T-IP**), Vol. 28, Issue 10, pp. 4954-4969, 2019, - IF = 6.79 (**SCI**).

14. Khanh-Duy Nguyen, Khang Nguyen, Duy-Dinh Le, Duc Anh Duong, **Tam V. Nguyen**. "YADA: You Always Dream Again for Better Object Detection", Journal of Multimedia Tools and Applications (**MTA**), Vo. 78, No. 19, pp. 28189-28208, 2019, - IF = 2.101 (**SCIE**).

15. Vinh-Tiep Nguyen, Duy-Dinh Le, Minh-Triet Tran, **Tam V. Nguyen**, Thanh D. Ngo, Shinichi Satoh, Duc A. Duong. "Video Instance Search via Spatial Fusion of Visual Words and Object Proposals", International Journal of Multimedia Information Retrieval (**IJMIR**), Vol. 8, Issue 3, pp. 181–192, 2019, IF = 2.2 (**E-SCI**).

16. Thanh-Toan Do, Tuan Hoang, Dang-Khoa Le, Huu Le, **Tam V. Nguyen**, Ngai-Man. Cheung."From selective deep convolutional features to compact binary representations for image retrieval", ACM Transactions on Multimedia Computing, Communications, and Applications (**TOMM**), Vol. 15, No. 2, pp. 43:1-43:22, 2019 - IF = 2.019 (**SCIE**).

17. Khanh-Duy Nguyen, Khang Nguyen, Duy-Dinh Le, Duc Anh Duong, **Tam V. Nguyen**. "You Always Look Again: Learning to Detect the Unseen Objects", Journal of Visual Communication and Image Representation (**JVCI**), Vol. 60, pp. 206-216, 2019 - IF = 2.259 (**SCIE**).

18. **Tam V. Nguyen**, Qi Zhao, Shuicheng Yan. "Attentive Systems: A Survey", International Journal of Computer Vision (**IJCV**) Vol.126, No. 1, pp. 86–110, 2018, - IF = 11.541 (**SCI**).

19. S. Ding, B. Mirza, Z. Lin, J. Cao, X. Lai, **Tam V. Nguyen**, J. Sepulveda. "Kernel based Online Learning for Imbalance Multiclass Classification", Neurocomputing, Vol.277, pp. 139–148, 2018 - IF = 3.317 (**SCI**).

20. **Tam V. Nguyen**, B. Mirza. "Dual-layer Kernel Extreme Learning Machine for Action Recognition", Neurocomputing, Vol.260, pp. 123–130, 2017 - IF = 3.317 (**SCI**).

21. **Tam V. Nguyen**, Mohan Kankanhalli. "As-Similar-As-Possible Saliency Fusion", Multimedia Tools and Applications (**MTA**), Vol. 76 Issue (8), pp. 10501-10519, 2017 - IF = 1.530 (**SCIE**).

22. **Tam V. Nguyen**, Jose Sepulveda. "Augmented Immersion: Video Cutout and Gesture-guided Embedding for Gaming Applications", Multimedia Tools and Applications (**MTA**), Vol. 75, No. 20, pp. 12351-12363, 2016 - IF = 1.346 (**SCIE**).

23. **Tam V. Nguyen**, Zheng Song, Shuicheng Yan. "STAP: Spatial-Temporal Attention-aware Pooling for Action Recognition", IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**), Vol. 25, No. 1, pp. 77-86, 2015 - IF = 2.615 (**SCI**).

24. **Tam V. Nguyen**, Canyi Lu, Jose Sepulveda, Shuicheng Yan. "Adaptive Nonparametric Image Parsing", IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**), pp. 1565-1575, 2015 (**SCI**).

25. **Tam V. Nguyen**, Jiashi Feng, Shuicheng Yan. "Seeing Human Weight from a Single RGB-D Image", Journal of Computer Science and Technology (**JCST**), Vol. 29, No. 5, pp. 777-784, 2014 - IF = 0.642 (**SCIE**).

26. Bingbing Ni, Mengdi Xu, **Tam V. Nguyen**, Congyan Lang, Zhongyang Huang, Meng Wang, Shuicheng Yan. "Touch Saliency: Characteristics and Prediction", IEEE Transactions on Multimedia (**T-MM**), Vol. 16, No. 6, pp. 1779-1791, 2014 - IF = 1.776 (**SCIE**).

27. Yanxiang Chen, **Tam V. Nguyen**, Mohan Kankanhalli, Jun Yuan, Shuicheng Yan. "Audio Matters in Visual Attention", IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**), Vol. 24, No. 11, pp. 1992-2003, 2014 - IF = 2.259 (**SCI**).

28. **Tam V. Nguyen**, Bingbing Ni, Hairong Liu, Wei Xia, Jiebo Luo, Mohan Kankanhalli, Shuicheng Yan, "Image Re-Attentionizing", In IEEE Transactions on Multimedia (**T-MM**), Vol. 15, No. 8, pp. 1910-1919, 2013 - IF = 1.935 (**SCIE**).

29. **Tam V. Nguyen**, Si Liu, Jun Tan, Bingbing Ni, Yong Rui, Shuicheng Yan. "Towards Decrypting Attractiveness via Multi-Modality Cues". In ACM Transactions on Multimedia Computing, Communications and Applications (**TOMM** formerly **TOMCCAP**), Vol. 9, No. 4, pp. 28:1-28:20, 2013 - IF = 1.425 (**SCIE**.

Conference Proceedings

30. Tan-Cong Nguyen, Tien-Phat Nguyen, Gia-Han Diep, Anh-Huy Tran-Dinh, **Tam V. Nguyen**, Minh-Triet Tran. "CCBANet: Cascading Context and Balancing Attention for Polyp Segmentation". International Conference on Medical Image Computing and Computer Assisted Intervention (**MICCAI**), 2021

31. Linh Truong Dieu, Thuan Trong Nguyen, Nguyen D. Vo, **Tam V. Nguyen**, Khang Nguyen. "Parsing Digitized Vietnamese Paper Documents". International Conference on Computer Analysis of Images and Patterns (**CAIP**), 2021.

32. Trung-Nghia Le, Vuong Nguyen, Cong Le, Tan-Cong Nguyen, Minh-Triet Tran, **Tam V. Nguyen**. "CamouFinder: Finding Camouflaged Instances in Images", AAAI Conference on Artificial Intelligence (**AAAI**), 2021.

33. Trung-Nghia Le, **Tam V. Nguyen**, Quoc-Cuong Tran, Lam Nguyen, Trung-Hieu Hoang, Minh-Quan Le, Minh-Triet Tran. "Interactive Video Object Mask Annotation", AAAI Conference on Artificial Intelligence (**AAAI**), 2021.

34. Tuan Hoang, Thanh-Toan Do, **Tam V. Nguyen**, Ngai-Man Cheung. "Direct Quantization for Training Highly Accurate Low Bit-width Deep Neural Networks", International Joint Conference on Artificial Intelligence (**IJCAI**), pp. 2111–2118, 2020.

35. Samah Baraheem, Trung-Nghia Le, **Tam V. Nguyen**, Ngai-Man Cheung. "Text-to-Image Synthesis via Aesthetic Layout", ACM Multimedia Conference (**ACM MM**), pp. 4485–4487, 2020.

36. An Quan, Tiep Nguyen, Cong Nguyen, **Tam V. Nguyen**, Minh-Triet Tran. "Flood Level Prediction via Human Pose Estimation from Social Media Images", ACM International Conference on Multimedia Retrieval (**ICMR**), pp. 479–485, 2020.

37. Samah Baraheem, **Tam V. Nguyen**. "Aesthetic-Aware Text to Image Synthesis", 54th Annual Conference on Information Sciences and Systems (**CISS**), pp. 1–6, 2020.

38. Quynh M. Chung; Tien D. Le; Thin V. Dang; Nguyen D. Vo, **Tam V. Nguyen**, Khang Nguyen. "Data Augmentation Analysis in Vehicle Detection from Aerial Videos", International Conference of Research,

Innovation and Vision for the Futur (**RIVF**), 2020.

39. Xiang Chen, **Tam V. Nguyen**, Zhiqi Shen, Mohan Kankanhalli. "LiveSense: Contextual Advertising in Live Streaming Videos", ACM Multimedia Conference (**ACM MM**), pp. 392–400, 2019.

40. Thomas Sherk, Minh-Triet Tran, **Tam V. Nguyen**. "SharkTank Deal Prediction: Dataset and Computational Model", International Conference on Knowledge and Systems Engineering (**KSE**), pp. 248–253, 2019.

41. Zhongliang Nie, Akhil Mattey, Zhe Huang, **Tam V. Nguyen**. "Revisit of Region-Feature Combinations in Facial Analysis", IEEE International Conference on Systems, Man, and Cybernetics (**SMC**), 2018, pp. 2343–2348.

42. **Tam V. Nguyen**, Jiashi Feng, Khang Nguyen. "Denser Trajectories of Anchor Points for Action Recognition", International Conference on Ubiquitous Information Management and Communication (**IMCOM**), 2018, pp. 1:1-1:8.

43. **Tam V. Nguyen**, Luoqi Liu. "Salient Object Detection with Semantic Priors", International Joint Conference on Artificial Intelligence (**IJCAI**), 2017, pp. 4499-4505.

44. **Tam V. Nguyen**, Guangyu Gao. "Novel Evaluation Metrics for Seam Carving based Image Retargeting", International Conference on Image Processing (**ICIP**) 2017, pp. 450–454.

45. **Tam V. Nguyen**, Luoqi Liu. "Smart Mirror: Intelligent Makeup Recommendation and Synthesis", **ACM Multimedia** 2017, pp. 1253–1254.

46. Zhe Huang, Vamshi Madaram, Saad Albadrani, **Tam V. Nguyen**. "Shadow Puppetry with Robotic Arms", ACM Multimedia Conference **(ACM MM)** 2017, pp. 1251–1252.

47. **Tam V. Nguyen**, Luoqi Liu, Khang Nguyen. "Image Parsing with Global-to-Local Convolutional Neural Networks", International Conference on Control, Automation, Robotics and Vision (**ICARCV**) 2016, pp. 1–6.

48. **Tam V. Nguyen**, Dorothy Tan, Jose Sepulveda. "MARIM: Mobile Augmented Reality for Interactive Manuals", ACM Multimedia 2016.

49. Erik Cambria, **Tam V. Nguyen**, Brian Cheng, Kenneth Kwok, Jose Sepulveda. "GECKA3D: A 3D Game Engine for Commonsense Knowledge Acquisition ", AAAI Florida Artificial Intelligence Research Society Conference (**FLAIRS**) 2016, pp. 299–303.

50. **Tam V. Nguyen**, Jose Sepulveda. "Salient Object Detection via Augmented Hypotheses", International Joint Conference on Artificial Intelligence (**IJCAI**), pp. 2176-2182, 2015.

51. Kang Wang, **Tam V. Nguyen**, Jiashi Feng, Jose Sepulveda. "Sense Beyond Expressions: Cuteness", pp. 1067-1070, **ACM Multimedia 2015**.

52. **Tam V. Nguyen**. "Salient Object Detection via Objectness Proposals", *in Proceedings of* AAAI Conference on Artificial Intelligence (**AAAI**), pp. 4286-4287, 2015.

53. Xiang Chen, **Tam V. Nguyen**, Mohan Kankanhalli. "SalAd: A Multimodal Approach for Contextual Video Advertising", IEEE International Symposium on Multimedia (**ISM**), pp. 211-216, 2015.

54. **Tam V. Nguyen**, Mengdi Xu, Guangyu Gao, Mohan Kankanhalli, Qi Tian, Shuicheng Yan. "Static Saliency vs. Dynamic Saliency: A Comparative Study", **ACM Multimedia 2013**, pp. 987-996.

55. **Tam V. Nguyen**⋆, Congyan Lang⋆, Harish Katti, Karthik Yadati, Mohan Kankanhalli, Shuicheng Yan, "Depth Matters: Influence of Depth Cues on Visual Saliency", European Conference on Computer Vision (**ECCV**) 2012, pp. 101-115. (⋆ indicates equal contribution).

56. **Tam V. Nguyen**, Si Liu, Bingbing Ni, Jun Tan, Yong Rui, Shuicheng Yan, "Sense Beauty via Face, Dressing, and/or Voice", **ACM Multimedia 2012**, pp. 239-248.

57. Si Liu, **Tam V. Nguyen**, Jiashi Feng, Meng Wang, Shuicheng Yan, "Hi, Magic Closet, Tell Me What to Wear!", *in Proceedings of* **ACM Multimedia 2012**, pp. 1333-1334, **Best technical demo award** - Award link: `http://www.sigmm.org/archive/MM/mm12/www.acmmm12.org/awards/index.html` (There are 51 papers in this track: `http://dblp.uni-trier.de/db/conf/mm/mm2012.html`).

58. **Tam V. Nguyen**, Lusong Li, Jun Tan, Shuicheng Yan, "3DME: 3D Media Express from RGB-D Images", *in Proceedings of* **ACM Multimedia 2012**, pp. 1331-1332.

Workshop Papers

60. Minh-Triet Tran, **Tam V. Nguyen** *et al.* "iTASK - Intelligent Traffic Analysis Software Kit.", CVPR Workshops (**CVPRW**), 2020, pp 2607–2616.
61. Minh-Triet Tran, Trung-Hieu Hoang, **Tam V. Nguyen** *et al.* "Multi-Referenced Guided Instance Segmentation Framework for Semi-supervised Video Instance Segmentation", DAVIS Video Object Segmentation Challenge Workshop in (**CVPR**), 2020, pp 1–4.
62. Minh-Triet Tran, Trung-Nghia Le, **Tam V. Nguyen** *et al.* "Guided Instance Segmentation Framework for Semi-supervised Video Instance Segmentation", DAVIS Video Object Segmentation Challenge Workshop in (**CVPR**), 2019, pp 1–4.
63. Minh-Triet Tran *et al.*, **Tam V. Nguyen**. "Context-based Instance Segmentation in Video Sequences", DAVIS Video Object Segmentation Challenge Workshop in (**CVPR**), 2018, pp 1–4.
64. Trung-Nghia Le *et al.*, **Tam V. Nguyen**. "Instance Re-Identification Flow for Video Object Segmentation", DAVIS Video Object Segmentation Challenge Workshop in (**CVPR**), 2017, pp 1–6.
65. **Tam V. Nguyen**, Yonghe Tan, Jose Sepulveda. "GACE: Gesture and Appearance Cutout Embedding for Gaming Applications", **ACM Multimedia 2014** Workshop in Immersive Media Experiences, pp. 41-44.

Teaching

- CPS 501 - Advanced Programming & Data Structures (Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019)
- CPS 563 - Data Visualization (Spring 2017, Summer 2017, Spring 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020)
- CPS 564 - Visual Computing and Mixed Reality (Fall 2016, Fall 2017, Fall 2018, Fall 2019)
- CPS 566 - Image Processing (Spring 2020)
- CPS 584 - Advanced Intelligent Systems & Deep Learning (Summer 2018, Summer 2019)
- CPS 149 - Creative Media Applications (Fall 2020)

Professional Services

- **Program Committee Member**: AAAI Conference on Artificial Intelligence, ACM Multimedia, ACM International Conference on Multimedia Retrieval, IEEE International Conference on Advanced Communications Technology, International Symposium on Information and Communication Technology
- **Journal Reviewer**:
- IEEE: Transactions on Pattern Analysis and Machine Intelligence, Transactions on Multimedia, Transactions on Cybernetics, Transactions on Circuits and Systems for Video Technology, Transactions on Neural Networks and Learning Systems, Transactions on Affective Computing, IEEE Access
- ACM: Transactions on Multimedia Computing, Communications and Applications, Transactions on Intelligent Systems and Technology
- Springer: Artificial Intelligence Review, Multimedia Systems Journal, The Visual Computer, Journal of Ambient Intelligence and Humanized Computing
- Elsevier: Computer Vision and Image Understanding, Pattern Recognition Letters, Neurocomputing, Journal of Visual Communication and Image Representation, Expert Systems with Applications.
- MDPI: Electronics, Remote Sensing, Sensors, Symmetry, Applied Sciences, Data, Information.
- **University**:
  - International Collegiate Programming Contest (ICPC) University Coach
  - University Hackathon Organizer
  - Department Faculty Search Committee Member

Honors and Awards

2021 **Ravi Pallerla Memorial Award for Young Professionals** , *IEEE Dayton Section*, USA.

2020 **3rd Prize**, *CVPR 2020 contest of "Human Portrait Segmentation Challenge "*, USA.

2020   **4th Prize**, *CVPR 2020 contest of "DAVIS Video Object Segmentation Challenge"*, USA.

2019   **3rd Prize**, *CVPR 2019 contest of "DAVIS Video Object Segmentation Challenge"*, USA.

2018   **Jolly Jumper Prize**, *2018 ICPC East Central North America Regional Programming Contest*, USA.

2017   **3rd Prize**, *CVPR 2017 contest of "DAVIS Video Object Segmentation Challenge"*, USA.

2016   **IEEE Senior Member**.

2015   **Singapore Polytechnic R&D Commendation Award**, *Singapore Polytechnic*, Singapore.

2013   **Best Paper Award**, *NUS-GSS*, Singapore.

2012   **Best Technical Demonstration**, *ACM Multimedia Conference 2012*, Japan.

2012   **Student Travel Grant**, *ACM Multimedia Conference 2012*, Japan.

2012   **2nd Prize**, *ICPR 2012 contest of "Scene Context based Gesture Recognition"*, Japan.

2011 – 2013   **NUS Research Scholarship**, *National University of Singapore*, Singapore.

2007 – 2009   **IITA (Institute of Information Technology Assessment) Scholarship**, *South Korea*.