

RESEARCH PRODUCTS

BOOKS AND EDITED VOLUMES

- B.1 Sunil Rao, Sameeksha Katoch*, Vivek Narayanaswamy, Gowtham Muniraju, Cihan Tepedelenlioglu, Andreas Spanias, Pavan Turaga, Raja Ayyanar, Devarajan Srinivasan, “Machine Learning for Solar Array Monitoring, Optimization, and Control”, *Synthesis Lectures on Power Electronics*, Aug 2020.
- B.2 Henry Braun*, Pavan Turaga, Andreas Spanias, Sameeksha Katoch*, Suren Jayasuriya, Cihan Tepedelenlioglu, “Reconstruction-Free Compressive Vision for Surveillance Applications”, *Synthesis Lectures on Signal Processing*, May 2019.
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- B.4 Jayaraman J. Thiagarajan, Karthikeyan N. Ramamurthy, Pavan Turaga, and Andreas Spanias, “Image Understanding using Sparse Representations”, *Synthesis Lectures on Image, Video, and Multimedia Processing*, April 2014, Morgan and Claypool Publishers.
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BOOK CHAPTERS

- Ch.1 Koshik Thopalli, Pavan Turaga, Thanassis Rikakis, Aisling Kelliher, “Advances in Computer Vision for Home-Based Stroke Rehabilitation”, *Computer Vision: Challenges, Trends, and Opportunities*, edited by Upal Mahbub, Md. Atiqur Rahman Ahad, Matthew Turk, Richard Hartley, CRC Press, to be published 2023.
- Ch.2 Patricia Solís, Gautam Dasarathy, Pavan Turaga, Alexandria Drake, Kevin Jatin Vora, Akarshan Sajja, Ankith Raaman, Sarbeswar Praharaaj and Robert Lattus, “Understanding the Spatial Patchwork of Predictive Modeling of First Wave Pandemic Decisions by U.S. Governors”, in *Examining the COVID Crisis from a Geographical Perspective*, edited By Sara Beth Keough, David H. Kaplan, Routledge, March 2023.
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- J.1 Eun Som Jeon, Hongjun Choi, Ankita Shukla, Pavan Turaga, “Leveraging angular distributions for improved knowledge distillation”, *Neurocomputing*, Volume 518, 2023, Pages 466-481 (Journal Impact Factor: 5.79).
- J.2 Avipsa Roy, Trisalyn Nelson, Pavan Turaga, “Functional data analysis approach for mapping change in time series: A case study using bicycle ridership patterns”, *Transportation Research Interdisciplinary Perspectives*, Volume 17, Jan 2023 (Journal Impact Factor: 9.75).
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CONFERENCE AND WORKSHOP PAPERS

ECCV, CVPR, ICCV, ICML, BMVC have acceptance rates around 25%.

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- C.3 Rajhans Singh, Ankita Shukla, Pavan Turaga, “Polynomial Implicit Neural Representations For Large Diverse Datasets”, *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023*, pp. 2041-2051.
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- C.6 Tripti Shukla, Paridhi Maheshwari, Rajhans Singh, Ankita Shukla, Kuldeep Kulkarni, Pavan Turaga, “Scene Graph Driven Text-Prompt Generation for Image Inpainting”, *Workshop on Generative Models for Computer Vision* held in conjunction with the IEEE/CVF Conference on Computer Vision and Pattern Recognition Pages 759-768.

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- C.10 Ankita Shukla, Rushil Anirudh, Eugene Kur, Jayaraman Thiagarajan, Peer Timo-Bremer, Brian Spears, Tammy Ma, and Pavan Turaga, “Geometric Priors for Scientific Generative Models in Inertial Confinement Fusion”, at the *Machine Learning and the Physical Sciences Workshop*, held in conjunction with NeurIPS 2021.
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