

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.5 R. Chellappa, A. Sankaranarayanan, A. Veeraraghavan, and P. Turaga, “Statistical Methods and Models for video-based tracking, modeling, and recognition”, in *Foundations and Trends in Signal Processing*, 2009.

BOOK CHAPTERS

- Ch.1 Suhas Lohit*, Pavan Turaga, Ashok Veeraraghavan, “Invariant Methods in Computer Vision”, *Encyclopedia of Computer Vision*, Springer, January 2020.
- Ch.2 Anirudh Som*, Karthikeyan Natesan Ramamurthy, Pavan Turaga, “Geometric metrics for topological representations”, *Handbook of Variational Methods for Nonlinear Geometric Data*, Springer, Cham, pp. 415–441, 2020.
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- Ch.10 P. Turaga, R. Chellappa, and A. Veeraraghavan, “Advances in Video-based Human Activity Analysis: Challenges and approaches”, in *Advances in Computers*, Elsevier, vol. 80, July 2010.
- Ch.11 P. Turaga, A. Veeraraghavan, A. Srivastava, and R. Chellappa, “Statistical Analysis on Manifolds and its applications to Video Analysis”, in *Video Search and Mining*, Studies in Computational Intelligence, 2010, Volume 287/2010, 115-144, Springer-Verlag.
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- J.3 Eun Som Jeon*, Anirudh Som*, Ankita Shukla*, Kristina Hasanaj, Matthew Buman, and Pavan Turaga, "Role of Data Augmentation Strategies in Knowledge Distillation for Wearable Sensor", *IEEE Internet of Things Journal (IoT-J)*, 2021. (Journal Impact Factor: 9.9)
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CONFERENCE AND WORKSHOP PAPERS

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- C.5 John Kevin Cava, John Vant, Nicholas Ho, Ankita Shukla, Pavan K. Turaga, Ross Maciejewski, and Abhishek Singharoy, “Towards Conditional Generation of Minimal Action Potential Pathways for Molecular Dynamics”, at the *ELLIS Machine Learning for Molecule Discovery Workshop* 2021.
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- C.7 Trisalyn Nelson, Avipsa Roy, Pavan Turaga, “Spatial-Temporal Change Detection Using Elastic Functional Data Analysis”, *American Statistical Association Symposium on Data Science and Statistics*, June 2021.
- C.8 Xavier Nokes, Ri Lindegren, Olivia Hernandez, Pavan Turaga Max Bernstein, “[ALT]Solas: Future of Workplace Wellness”, *International Conference on Movement and Computing (SloMoCo)* 2021.
- C.9 Rushil Anirudh, Suhas Lohit, Pavan Turaga, “Generative Patch Priors for Practical Compressive Image Recovery”, *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, pp. 2535-2545, 2021.
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- C.52 R. Anirudh, P. Turaga, J. Su, A. Srivastava, “Elastic functional coding of human actions: From Vector-Fields to Latent Variables”, in *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2015.
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