Adarsh Jamadandi

Research Interests : Graph Representation Learning and
Geometric Deep Learning.
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Universität des Saarlandes, Saarbrucken Germany, 66123.

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Google Scholar

Education

Universität des Saarlandes, Saarbrücken, Germany. *November 2020 - Present*
Masters in Computer Science
Current GPA (ECTS) : 1.9/5.0.

B.V.Bhoomaraddi College of Engineering and Technology, Hubli, India. *August, 2014 - June, 2018*
B.E in Electronics and Communication Engineering.
GPA: 8.42/10.0 Advisor: Prof. Uma Mudenagudi.
Bachelor Thesis: Anomaly Detection in Unlabeled Videos.

Work Experience

CISPA *Nov, 2022 - Present*
Research Assistant
Working on improving generalizability of graph neural networks
by tackling problems like over-squashing and over-smoothing.

Modelling and Simulation Lab, Saarland Informatics Campus. *Nov, 2021 - Jan, 2023.*
Research Assistant
Working on modelling molecular spectra using graph neural networks.

KLE Technological University, Hubli, India. *April, 2019 - April, 2020*
Research Associate
Responsibilities : Deep Learning for Underwater Image Enhancement.

Publications

6. **SoLAR : Surrogate Label Aware Graph Rewiring for Graph-Task Alignment.**
   Celia Rubio-Madrigal*, Adarsh Jamadandi* and Rebekka Burkholz.
   **equal contributions. Pre-Print*
   *(**Under-review**), 2024.*

5. **Spectral Pruning Against Over-Squashing and Over-Smoothing.**
   Adarsh Jamadandi, Celia Rubio-Madrigal and Rebekka Burkholz.
   Pre-Print
   *(**Under-review**), 2024.*

4. **Graph of Thrones : Adversarial Perturbations dismantle Aristocracy in Graphs.**
   Adarsh Jamadandi and Uma Mudenagudi.
   AAAI, Student Poster, 2021.
   Extended Version in Differential Geometry meets Deep Learning Workshop,
   *(**NeurIPS**), 2020.*

3. **Probabilistic Word Embeddings in Kinematic Space**
   Adarsh Jamadandi, Rishabh Tigadoli, Ramesh Tabib and Uma Mudenagudi.
   *International Conference on Pattern Recognition (**ICPR**), 2020.*

2. **Exemplar Based Underwater Image Enhancement augmented by Wavelet Corrected Transforms**
   Adarsh Jamadandi and Uma Mudenagudi .
   *Computer Vision and Pattern Recognition (**CVPR** Workshop, Oral), 2019.*

1. **Learning Hierarchical Representations in Kinematic Space.**
   Adarsh Jamadandi and Uma Mudenagudi .
   Graph Representation Learning Workshop,
   *Neural Information Processing Systems (**NeurIPS**), 2019.*