Kranti Kumar Parida

CONTACT INFORMATION

Dept. of CSE
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RESEARCH INTERESTS

Computer Vision, Machine Learning, Multimodal Processing

EDUCATION

Indian Institute of Technology Kanpur, India   2016 - present
PhD in Computer Science
Advisors: Dr. Gaurav Sharma, Prof. Manindra Agrawal

Indian Institute of Technology Kharagpur, India   2014-2016
Master of Technology in Medical Imaging and Informatics
Advisors: Dr. Rajiv R. Sahay, Prof. P. K. Dutta

Silicon Institute of Technology, Bhubaneswar, India
Bachelor of Technology in Electronics and Telecommunications   2009-2013

PUBLICATIONS

[4] **Kranti Kumar Parida**, Siddharth Srivastava, Gaurav Sharma. "Beyond Image to Depth: Improving Depth Prediction using Echoes." *IEEE/CVF Conf. on Computer Vision and Pattern Recognition (CVPR), 2021.* pdf

[3] Pratik Mazumder, Pravendra Singh, **Kranti Kumar Parida**, Vinay P Namboodiri. "AVGZSLNet: Audio-Visual Generalized Zero-Shot Learning by Reconstructing Label Features from Multi-Modal Embeddings." *IEEE Winter Conference on Applications of Computer Vision (WACV), 2021.* pdf

[2] **Kranti Kumar Parida**, Neeraj Matiyali, Tanaya Guha, and Gaurav Sharma. "Coordinated Joint Multimodal Embeddings for Generalized Audio-Visual Zeroshot Classification and Retrieval of Videos." *IEEE Winter Conference on Applications of Computer Vision (WACV), 2020.* pdf

[1] Latha H. Narayan, **Kranti K. Parida**, and Rajiv R. Sahay. "Simultaneous blur map estimation and deblurring of a single space-variantly defocused image." *Twenty-third National Conference on Communications (NCC), 2017.*

RESEARCH EXPERIENCE

Indian Institute of Technology Kanpur   07/16-present
Graduate Research Student
- Research on multimodal AI, to help machines use different modalities for understanding the task better as done by the humans

Indian Institute of Technology Kharagpur   07/15-06/16
Master Research Student
- Research on optimization framework for depth and focused image estimation from a stack of microscopic images

All India Institute of Medical Sciences, New Delhi   05/14-06/14
Research Intern
- Worked with real clinical data to segment different layers of OCT images of a region in the foot and generate a 3D model of it.

TEACHING EXPERIENCE	**Tutor,** *Introduction to Programming*, IIT Kanpur	08/19-11/19
	TA, *Introduction to Machine Learning*, IIT Kanpur	08/18-11/18
	TA, *Introduction to Natural Language Proc.*, IIT Kanpur	01/18-04/18
	TA, *Online Learning and Optimization*, IIT Kanpur	01/17-04/17
	TA, *Intro. to Programming*, IIT Kanpur	08/17-11/17,01/19-04/19

WORKSHOPS & CONFERENCES	**Graduate Symposium** by Google Research India Symposium for selected Ph.D. Students in the Asia-Pacific region	2021
	Winter Conference on Applications of Computer Vision Snowmass Village, Colorado, USA	2020
	Vision and Sports Summer School Czech Technical University, Prague, Czech Republic	2017
	Summer School on Machine Learning: Deep Learning CVIT, IIIT Hyderabad, India	2017
	Summer School on Recent Advances in Computer Vision CVIT, IIIT Hyderabad, India	2017
	Indian Conf. on Computer Vision, Graphics & Image Proc. IIT Guwhati, India	2016
	Indian Workshop in Machine Learning(IwML) IIT Kanpur, India	2016

AWARDS & FELLOWSHIPS	Won **Indian Driving Dataset (IDD)** challenge ICVGIP 2020, India
	Travel Grant from Research I Foundation, CSE, IIT Kanpur Participating and presenting paper at WACV 2020, Colorado, USA
	Director's Appreciation Letter for exceptional rating as a Tutor in the course of Fundamentals of Computing (2019-20, Sem.-I)
	Visvesvaraya PhD Fellowship, 2016-21 Ministry of Electronics & IT, Government of India
	Post Graduate Fellowship for M.Tech, 2014-16 AICTE, Govt. of India
	Awarded cash prize for being in **Top 20 out of ~150 participants**, 2017 Summer school on Machine Learning, CVIT, IIIT Hyderabad
	Awarded cash prize for being in **Top 20 out of ~150 participants**, 2017 Summer school on Computer Vision, CVIT, IIIT Hyderabad

PROFESSIONAL ACTIVITIES	**Student Volunteer**, International Confernece on Systems in Medicine and Biology 2016, IIT Kharagpur, India
	Volunteer, Machine Vision and Learning Spring School 2016, Dept. Of Electrical Engg., IIT Kharagpur
	Member, Student Activity Committee, IEEE Engineering in Medicine and Biology Student Club, IIT Kharagpur, 2015-16

TALKS & SEMINARS	**Basics of PyTorch and CNN**	Jan. 2021
	Faculty Development Programme on **Optimization and Deep Learning** Organized by NIT Patna & Techno Main Salt Lake, Kolkata	
	Audio-Visual Zero-shot Learning	Feb. 2020
	Presented Poster and Short Talk WACV 2020, Colorado, USA	

TECHNICAL SKILLS	Python, PyTorch, C/C++, MatLab, LaTeX

REFERENCES	Available upon Request