Kranti Kumar Parida

CONTACT INFORMATION

Dept. of CSE
IIT Kanpur
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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   2021
Symposium for selected Ph.D. Students in the Asia-Pacific region

Indian Conf. on Computer Vision, Graphics & Image Proc.   2020
IIT Jodhpur, India (Virtual)

Winter Conference on Applications of Computer Vision   2020
Snowmass Village, Colorado, USA

Vision and Sports Summer School   2017
Czech Technical University, Prague, Czech Republic

Summer School on Machine Learning: Deep Learning   2017
CVIT, IIIT Hyderabad, India

Summer School on Recent Advances in Computer Vision   2017
CVIT, IIIT Hyderabad, India

Indian Conf. on Computer Vision, Graphics & Image Proc.   2016
IIT Guwhati, India

Indian Workshop in Machine Learning(IwML)   2016
IIT Kanpur, India

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