Ayon Borthakur

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Major Areas of Research/Up to 3 major sponsored projects

Embedded AI Systems, Deep Learning, Neuromorphic Computing,
Computational Neuroscience

Major Research Facilities in the Group

Intel Loihi for neuromorphic computing

Technology/Product Developed/Up to 3 most significant Publications

Cleland, T. A., Imam, N., & Borthakur, A. (2022). Neuromorphic algorithm for rapid online learning and signal restoration. US Patent App. 17/603,171.

A.Borthakur, & Cleland, T. A. (2019). Signal Conditioning for Learning in the Wild. ACM. NICE '19: Proceedings of the 7th Annual Neuro-Inspired Computational Elements Workshop.

A.Borthakur, & Cleland, T. A. (2019). A Spike Time-Dependent Online Learning Algorithm Derived From Biological Olfaction. Frontiers in Neuromorphic Engineering, 13:656.

భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

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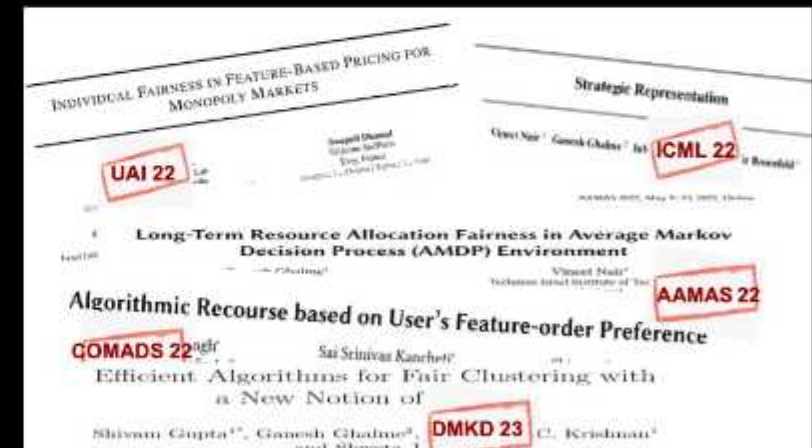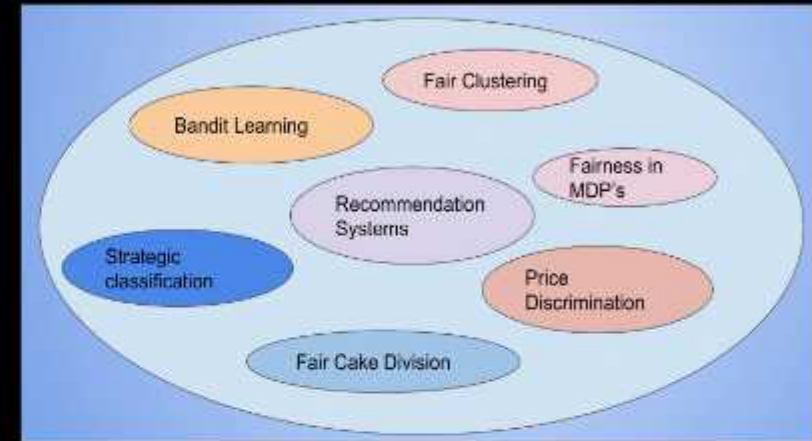
Major Areas of Research:

Game Theory, Fair and responsible AI, Fair division

Major Research Facilities in the Group:

Shared computational servers at the AI center

Technology/Product Developed:

3 conference papers in core A/A* conferences, 2 papers in national level conferences, 1 journal paper

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Mopuri Konda Reddy

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Major Areas of Research/Up to 3 major sponsored projects

- Areas: Machine Learning (esp. Deep Learning), Data Science and Engineering, Artificial Intelligence, Computer Vision and Image Processing
- Projects:
- Application of AI/ML for early detection of stuck-pipe scenarios in drilling (for JOGMEC, Japan)
- SERB-SRG: Deep Learning for long-tailed computer vision

Major Research Facilities in the Group

- Workstations/servers with GPUs
- International exposure and collaborations with top tier universities
- Frontline research problems

Technology/Product Developed/Up to 3 most significant Publications

- Bo Zhao, Konda Reddy Mopuri, and Hakan Bilen. "Dataset Condensation with Gradient Matching." *ICLR* 1.2 (2021): 3.
- Konda Reddy Mopuri, Nayak, Gaurav Kumar, Vaisakh Shaj, Venkatesh Babu Radhakrishnan, and Anirban Chakraborty. "Zero-shot knowledge distillation in deep networks." ICML, pp. 4743-4751. PMLR, 2019.
- Konda Reddy Mopuri, et al. "Nag: Network for adversary generation." In *Proceedings of the IEEE CVPR*, pp. 742-751. 2018.

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