Sankaran Vaidyanathan

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Research Experience

Project Associate Chennai, India

Robert Bosch Centre for Data Science and Artificial Intelligence, IIT Madras Und 2017-present

- Worked on modularity maximization methods for clustering on hypergraphs.
 Advised by Profs. Balaraman Ravindran, IITM and Srinivasan Parthasarathy, Ohio State.
- Set up and managed a Kubernetes-based GPU cluster for the lab (currently 50 GPUs and 70+ users).

Research Intern

RISE-IIL Lab, Department of CSE, IIT Madras

Chennai, India

Jun-Aug 2016

Worked on extending self-organizing maps for deep end-to-end clustering.
 Advised by Prof. Balaraman Ravindran.

Education

SSN College of Engineering (Anna University)

Chennai, India

B.E, Electrical and Electronics Engineering

Aug 2013-May 2017

- Project: Control of Autonomous Quadrotor for Real-Time Object Tracking
 Built an APM2.6 based quadrotor. Implemented the Lucas-Kanade algorithm for optical flow and video stabilization using a Kalman filter, for resultant control of the quadrotor.
- **CGPA**: 8.45/10
- Awards: SSN Merit Scholarship 2014, awarded to the top 5 ranks for the first year in the EEE department. Awarded a full refund of the year's tuition fees.

Publications

Tarun Kumar*, **Sankaran Vaidyanathan***, Harini Ananthapadmanabhan, Srinivasan Parthasarathy, Balaraman Ravindran, A New Measure of Modularity in Hypergraphs: Theoretical Insights and Implications for Effective Clustering, under review at The Web Conference 2019. [arXiv]

Poster Presentations

- RBC-DSAI Workshop on Recent Progress in Data Science and AI
- IIT Madras, 2017
 - Poster Title: Role Discovery in Graphs Using Global Features: Algorithms, Applications and a Novel Evaluation Strategy

Relevant Coursework

• CS7015: Deep Learning, IIT Madras

• CS6730: Probabilistic Graphical Models, IIT Madras

Skills

• Programming Languages: Python, C++

• Libraries used: TensorFlow, OpenCV, OpenGL

• Tools and Platforms: LaTeX, Linux, Arduino

Extra-curricular activities

- Scriptwriter for Lights Out Please, SSN's theatre group. Wrote *Minutes Before Midnight*, a 90-minute play staged at Alliance Française of Madras.
- SSN's *Teach-a-School* initiative; visited schools for underprivileged children, and taught basic math and English to students in the 6th-8th grades.
- Member of SSN's Humour Us (stand-up comedy group), English Literary Club and organizing committee for SSN Model United Nations.