Ganesh Baliga

Professor
Computer Science

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Education:
B. Tech. (Computer Science and Engineering), Indian Institute of Technology, Bombay
M. Tech. (Computer Science and Engineering), Indian Institute of Technology, Bombay
MS (Computer and Information Sciences), University of Delaware
PhD (Computer and Information Sciences), University of Delaware

Research Expertise:
Data Analytics | Machine Learning | Algorithm Design and Analysis | Cloud Computing

My research focus is on the design of algorithms and software systems for machine learning and data analytics. I have published over 15 papers in machine learning in international conferences and journals. Presently, I am the Technical Lead and co-PI of the Perka First Data-Rowan CS Lab, an innovative industry academia collaboration where Perka engineers work closely with faculty and students to develop active production software. At present I am establishing a lab with a focus on data analytics using deep neural networks. I am the co-PI of a grant from the National Science Foundation to develop materials for an undergraduate curriculum for algorithms design and NP-Completeness. Over the past four years, I have served as co-PI in projects funded by Bristol-Myers Squibb and Mission Solutions Engineering and have been involved in nine external grants and contracts.

Member of:
ACM

Recent Academic Projects:
Co-PI, Perka Lab. Sponsored by Perka Inc., May 2015 – May 2018.
Co-PI, NSF TUES grant: “Learning algorithm design: A project based curriculum” May 2012 – April 2017.

Recent Publications:

Lobo AF, Baliga GR (2017) A project-based curriculum for algorithm design and NP completeness centered on the Sudoku problem. Journal of Computing Sciences in Colleges. 32:110-118.

Lobo AF, Baliga GR (2016) A project-based curriculum for algorithm design and intractability centered on the traveling salesperson problem. Journal of Computing Sciences in Colleges. 31:62-69.

Lobo AF, Baliga GR (2014) Teaching algorithm design and and intractability with a project-based curriculum centered on a single intractable problem: Three domains to choose from. SIGCSE Workshop, Atlanta, GA March 2014.