DANDA SAI KOTI REDDY

CONTACT ADDRESS

Stochastic Systems Laboratory,
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RESEARCH INTERESTS

Theory: Reinforcement Learning, Stochastic Control and Optimization
Applications: Smart grids, Quadcopter control

EDUCATION

M.Sc.(Engg). [Aug 2014 - May 2017]
Department of Computer Science and Automation (CSA),
Indian Institute of Science (IISc), Bangalore, India.
C.G.P.A: 6.0/8
Reseach Supervisor: Prof. Shalabh Bhatnagar.
Thesis title: Stochastic Newton methods with enhanced Hessian estimation.

B.Tech. [2008 - 2012]
Information Technology,
NRI Institute of Technology, Guntur, A.P,
Affiliated to Jawaharlal Nehru Technological University, Kakinada, A.P, India.
Percentage: 75%

Class XII [2006 - 2008]
Vikas Junior College,Guntur, A.P,
Affiliated to Board of Intermediate Education, A.P, India.
Percentage: 88%

Class X [2005 - 2006]
Bhashyam Public School,Guntur, A.P,
Affiliated to Board of Secondary Education, Andhra Pradesh, India.
Percentage: 90%

PROFESSIONAL EXPERIENCE

- **Summer Intern** in IBM India Research Lab (IRL), Bangalore, May-Nov, 2016.
Project Title: Use-cases on Blockchain.

- **Project assistant** in Robert Bosch Center for Cyber Physical Systems, Bangalore
Dec 2016 - Jun 2017.
Project Title: Distributed Multi-Agent Algorithms for Dynamic Control of Microgrids.

PROGRAMMING SKILLS

C, C++, Java, MATLAB, Go

CONFERENCE PUBLICATIONS

- **D. Sai Koti Reddy**, Prashanth L.A., and Shalabh Bhatnagar,
Improved Hessian estimation for adaptive random directions stochastic approximation,
55th IEEE Conference on Decision and Control (CDC), Las Vegas, NV, USA, 2016, pp. 3682-3687.

- **D. Sai Koti Reddy**, S.S Raghava, P. Viswanath and T. Hitendra sarma,
An Improvement to k-Nearest Neighbor Classifier,
Accepted in ICDM-2010, 3rd International Conference on Data Management,
IMT, Ghaziabad, India, 2010, Pages 314-324.

SUBMITTED CONFERENCE PAPERS

- Chandramouli K., **D. Sai Koti Reddy**, and Shalabh Bhatnagar,
Deterministic Perturbations For Simultaneous Perturbation Methods Using Circulant Matrices,
56th IEEE Conference on Decision and Control (CDC) (Submitted).

- Raghuram Bharadwaj D., **D. Sai Koti Reddy**, and Shalabh Bhatnagar,
Multi-agent Q-Learning for minimizing Demand-Supply deficit in microgrids,
IEEE International Conference on Smart Grid Communications (Submitted).

PROFESSIONAL SERVICE
Conference reviewer: IEEE CDC 2017.

ACADEMIC HONORS
- GATE AIR 583 in Computer Science and Information Technology (2014).
- Secured **Second rank** in Information Technology Department, NRIIT (2008-2012).

TEACHING ASSISTANTSHIP
- Algorithms and Programming (Aug-Dec 2016)

ROLES AND RESPONSIBILITIES
- **Lab administrator** for Stochastic Systems Laboratory, CSA, IISC.
- **Head of student Co-ordinators** for inter college tech fest WishV 2011, NRIIT.
- Student representative for the Department of Information Technology, NRIIT 2008-12 .

COURSE WORK
Completed (during Masters program in IISc, Bangalore)
Stochastic Models and Applications
Design and Analysis of Algorithms
Linear Algebra and Applications
Computational Methods in Optimization
Reinforcement Learning

ACADEMIC PROJECTS

- Algorithms for coordinate control of tightly coupled drones for carrying payloads (Feb 2017 -).
- Distributed Multi-Agent Algorithms for Dynamic Control of Microgrids (Dec 2016 -).
- Actor-Critic Algorithms with Function Approximation for Constrained Markov Decision Processes (Aug 2016 -).
- Hessian estimation procedures for adaptive random directions stochastic approximation in Simulation Stochastic Optimization (May 2015 - Dec 2016).
- A study on Gradient based Temporal Difference Learning Algorithms : A Review (Jan-Apr 2015).
- Network Packet Route Tracer : A .Net based web application (2010 - 2012).
- Screen Shot Hacker : A .Net based Client Server application (2010 - 2012).

REFERENCES

Prof. Shalabh Bhatnagar,
Department of Computer Science and Automation,
Indian Institute of Science Bangalore, India.
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Dr. Viswanath Pulabaigari,
Department of Computer Science and Engineering,
Indian Institute of Information Technology, Chittoor, India.
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          viswanth.pulabaigari@gmail.com