Suriyadeepan Ramamoorthy

Personal Data

Place and Date of Birth:	Puducherry, India | 04 Nov 1990
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About

Independent researcher, interested in Artificial Intelligence, Natural Language Understanding and Cognitive Systems. I am currently working in Goal Oriented Dialog Systems.

Experience

March 2017 - now	*Research Engineer* VOICEMONK Hyderabad, India

Education

July 2013	M.E. Software Systems **BITS Pilani, K K Birla Goa Campus**, Goa Thesis: "Cross Layer Architecture for Mobile Wireless Sensor Network"
July 2009	B.Tech Electronics and Instrumentation Engineering **Pondicherry Engineering College**, Puducherry

Languages

Tamil:	Mothertongue
English:	Fluent

Skills

Programming:	Python, C, Java, Android
Deep Learning:	tensorflow
Hardware:	Arduino, Raspberry Pi, Beagleboard

Blog

Feb 2017	Implementing RNN gating mechanisms in Tensorflow
Jan 2017	A Probabilistic Perspective of Linear Regression
	Concepts and Architectures in RNN
Dec 2016	Implementing sequence to sequence model in tensorflow
June 2016	Building a Chatbot in Tensorflow

Independent Projects

2017	Implementation of Microsoft's Hybrid Code Networks (code)
	End-to-End Neural Networks for Goal Oriented Dialog (code)
	Recurrent Neural Networks from Scratch in Tensorflow (code)
	Memory Networks : Experiments with Explicit Memory (code)
	Language Modeling with Tensorflow (code)
	A Wrapper for Sequence to Sequence Model (code)
2016	Neural Conversational Model (code)
	A Radio and Network Planning Tool for Community Networks (abstract)
	Community WiFi Initiative: pymeshnet.gitlab.io, slides

Academic Projects

Jan - June 2015	THESIS: A Cluster-based Mobility Aware MAC for strictly Mobile Wireless Sensor Network
	DS-MMAC: Dynamic Schedule based MAC for Mobile Wireless Sensor Network
	Study of Mobility Aware MAC protocols in Wireless Sensor Networks
	Study of Time Synchronization Protocols in Wireless Sensor Networks
Sept - Dec 2014	Disjoint Multipath routing for multimedia data streaming in Wireless Sensor Networks
Jun - Sept 2014	A Novel Multi-robot Exploration technique for mobile nodes in WSN
Jan - Apr 2014	RESEARCH PRACTICE: Coordinated Sensing by mobile nodes
Sept - Nov 2013	Gesture based control of mobile robot using OpenKinect and Skeltrack library
Sept 2012 - Mar 2013	Computer vision in Android using OpenCV library

Volunteer Experience and Achievements

1. Conducted a workshop on **Introduction to Machine Learning** at 4CCon 2017, organized by Free Software Movement India, B.S Abdur Rahman University, Chennai

2. Conducted a workshop on **Python** at Summer Camp 2016, organized by Free Software Foundation Tamilnadu, Loyola College, Chennai

3. Volunteered for Summer Camp 2015, conducted by Free Software Foundation Tamilnadu, IIT-M, Chennai

4. Presented at NCC 2015 (Networks Track), IIT Bombay

5. Volunteered for ACM INDIA ANNUAL EVENT 2015, BITS Pilani, K K Birla Goa Campus

6. **Partition Discovery and Connectivity Restoration in WSN using Mobile Relays** - Nominated for best paper award in ICDCN 2015, BITS Pilani, K K Birla Goa Campus

7. Presented at COMSNETS 2015 (Poster Presentation), Bangalore

PUBLICATIONS

1. Sreejith, V., Suriyadeepan, R., Anupama, K. R., & Gudino, L. J. (2016, April). DS-MMAC: dynamic schedule based MAC for mobile wireless sensor network. In Proceedings of the 31st Annual ACM Symposium on Applied Computing (pp. 738-741). ACM.

2. Sreejith, V., Anupama, K.R., Gudino, L.J., & Suriyadeepan, R. (2015, Novemeber). High bandwidth data streaming in sensor network with mobile nodes, *In IEEE International conference on Control, Communication and Computing India 2015*, (Trivandrum, India).

3. Sreejith, V., Anupama, K. R., Gudino, L. J., & Suriyadeepan, R. (2015, February). A fast exploration technique in WSN for partition recovery using mobile nodes. *In Communications (NCC), 2015 Twenty First National Conference* on (pp. 1-6). IEEE.

4. Sreejith, V., Anupama, K. R., Gudino, L. J., & Suriyadeepan, R. (2015, January). Partition Discovery and Connectivity Restoration in WSN using Mobile Relays. *In Proceedings of the 2015 International Conference on Distributed Computing and Networking* (p. 36). ACM.