VAMSIKRISHNA GOPIKRISHNA

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EDUCATION	
University of Texas at Arlington, Arlington, TX Doctor of Philosophy, Computer Science Major: Artificial Intelligence (Computer Vision, Neural Networks, Pattern Recognition and Machine Journal 2.5	Aug 2016
Course work: Machine Learning; Neural Networks; Software Engineering Management & Quality Assurance; Computer Architecture; Computer Vision in Robotics; Computer Vision; Computer Graphics; Data Analysis and Modeling Techniques; Multi-agent Systems. Dissertation: Building 3D Shape primitive based object models from range images. Mentored by Dr. Manfred Huber. Implemented methods proposed in MatLab.	
University of Texas at Arlington, Arlington, TX Master of Science, Computer Engineering Major: Artificial Intelligence, GPA: 3.4 Course work: Artificial Intelligence; Robotics; Reasoning with Uncertainty for Data Interpretation, Modeling, and Decision-Making; Databases; Analysis of Algorithms; Networks; Operating Systems. Thesis: Temporal Potential Function approach for Path planning in Dynamic Environments: Mentored by Dr. Manfred Huber. Implemented the method proposed in thesis	Dec 2008
using MatLab. Sri Venkateshwara College of Engineering, Anna University, Chennai, India Bachelor of Engineering, Computer Science & Engineering Graduated First Class Final year project: Automation of Identification of Protein-Coding region in Human DNA in Java	Jun 2006
TEACHING EXPERIENCE University of Texas at Arlington, Arlington, TX Senior Lecturer Instructor for Artificial Intelligence, Data Analysis and Modeling Techniques, Discrete Structures for Undergraduate and Graduate Students	Sep 2017 –
Adjunct Faculty Instructor for Artificial Intelligence for Undergraduate and Graduate Students	Jan 2017 – May 2017
Instructor Instructor for Artificial Intelligence for Undergraduate and Graduate Students	Aug 2015 – Dec 2015
Instructor Instructor for Artificial Intelligence for Undergraduate and Graduate Students	Aug 2012 – Dec 2012
Instructor As part of Transitions Summer Bridge Program (<u>http://www.uta.edu/transitions/</u>) taught STEMS Introduction to Engineering to High School students	Jun 2011
Instructor As part of Upward Bound Math & Science Center (<u>http://www.uta.edu/ubmathsci/</u>) taught Precalculus & Engineering Research, for High School students.	Jun 2010
Teaching Assistant Teaching assistant for Autonomous Robots; Artificial Intelligence; Computer Graphics; Reinforcement Learning; Reasoning with Uncertainty for Data Interpretation, Modeling, and Decision Making; Discrete Structures; Software Project Management; Software Evolution and Reengineering; Unmanned Vehicle Systems Tutor at a Help desk that helped students of Introduction to Computers & Programming and Introductory Programming for Engineers & Scientists with their assignments.	Feb 2010 – May 2016

Inverse Reinforcement Learning for Decentralized Non-Cooperative Multiagent Systems – Tummalapalli Sudhamsh Reddy, Vamsikrishna Gopikrishna, Gergely Zaruba, Manfred Huber IEEE International Conference on Systems, Man and Cybernetics (SMC), Seoul, Korea	Oct 2012
A Temporal Potential Function Approach for Path Planning in Dynamic Environments — Vamsikrishna Gopikrishna, Manfred Huber	
IEEE International Conference on Systems, Man, and Cybernetics (SMC), San Antonio, Texas	Oct 2009
TC-ID3: A TESTCODE based ID3 Classifier for Protein Coding Region Identification	
(CIMCA), Sydney, Australia	Nov 2006
PROJECTS	
Developed a Neural Network based 3D Object model builder in MatLab.	2016
Developed a Neural Network and Function Minimization based 3D Feature learner in MatLab.	2015
Developed a Neural Network based face and expression classifier in MatLab	2012
Implemented an Inverse Reinforcement Learning system for Multi agent systems in MatLab using its optimization Toolbox.	2012
Developed a simple text-based Android Game	2011
Developed a Robot path planning simulator in MatLab	2009
Conducted research on A* Algorithm under the guidance of Dr. Deepak Khemani of Indian Institute of Technology, Chennai. Implemented the algorithm using LISP	2006
Developed a text based DNA protein coding region identifier in Java	2006
Developed a Banking - Customer Care System for Microsoft Student Project Program using Microsoft .NET Technologies (ASP .NET & C# .NET)	2005
Developed a LAN chat system for use in office environment using Socket Programming in Visual C++ for Pentasoft Technologies, Chennai during In-Plant Training.	2004

SKILLS

Areas of Interest:

Pattern Recognition, Machine Learning, Neural Networks, Cognitive Vision, Artificial Intelligence, Perceptive Learning, Robotics, Data Mining.

Software Skills:

TensorFlow, MatLab (Neural Networks, Function optimization, Image Processing), Simulink, Python, R, Java, C, Visual Basic .NET, ASP .NET, LISP, mySQL, Panda3D, OpenGL

MEMBERSHIPS

ACM IEEE AAAI (UTA) Association of Computer Engineers (India)