

- **CPIDR 5.1** (*Aug-2012*): Worked on validating CPIDR (Computerized Propositional Idea Density Rater) and fixing problems while running it on windows. The program performance was improved to load in a fraction of the time compared to CPIDR 3 which took about 3 mins to load.
Product: <http://ai1.ai.uga.edu/caspr>
- **Homogeneous RF Coil for MRI** (*Dec-2011*): Developed an evolution based approach to find the key parameters for the RF coil used in MRI machines. The results from Finite-Difference Time-Domain (FDTD) based simulation was used to tweak the coil parameters. This reduced the time and work that would have been needed to design, build, and test a real copper coil to find the coil with the desired properties.
Paper: Karthik Nadig, W. Potter and Walter. D. Potter, Homogeneous RF coil design using Genetic Algorithms, IEA-AIE, 2012
- **Evolutionary Robotics** (*Dec-2010*): Designed an Arduino based robot that could navigate indoors by learning to detect and avoid obstacles. The robot started with the ability to read sensor values and control motors, and over time evolved the avoidance algorithm.
Paper: Karthik Nadig, K. Rasheed and et. al., Evolving Efficient Sensor Arrangement and Obstacle Avoidance Control Logic for a Miniature Robot, IEA-AIE, 2011

EDUCATION

- **Masters in Artificial Intelligence** (*Aug-2010 to Aug-2012*): From The University of Georgia - Athens, GA (GPA 4.0/4.0); Software Foundations; Algorithms; Genetic Algorithm; Computational Intelligence; Machine Learning.
- **Bachelors in Engineering** (*Sep-2003 to Jun-2007*): Major in Electronics, from Vidya Vardhaka College of Engineering - Mysore, KA, India (GPA 3.9/4.0); Signal Processing; VHDL; Wireless Networks; Antenna Design
First place in State Level and Second place in National Level paper presentation organized by IEEE, Mysore

LANGUAGES AND TECHNOLOGIES

- C++; C; C#; .Net; SQL; R; Python;
- Windows; Linux (Ubuntu/RHEL/SLES);
- GitHub: <https://github.com/karthiknadig>