CSC 4700 Applied Deep Learning

Course Info

Time and Location
F 9:30-12:20   Online Zoom Class

Instructor
> Prof. Jian Zhang
> jz@lsu.edu
> Office hours: Zoom meeting by email appointment

Topics

- Python and Keras
- Tensorflow programming and GPU computing basics
- Multilayer neural networks and optimization
- Convolutional neural network
- Recurrent/recursive neural network for sequential data
- Deep models for image/video processing
- Deep models for natural language understanding
- Deep models for game play

Textbook

Lecture notes, no textbook is required.

Optional Reading:
Deep Learning
by Ian Goodfellow, Yoshua Bengio and Aaron Courville
Online version available at: http://www.deeplearningbook.org/
Hardcopy available on Amazon

Assignments and Grading

- 3 (programming) homework assignments
- Midterm
- Final exam

- Grading
  - Homework   30%
  - Midterm exam   30%
  - Final exam   35%
  - In class practice   5%
- Grading scale: Standard scale