Special Topic: Cloud Computing  CPS 5990-01 Fall 2013

Instructor: Dr. Jing-Chiou Liou  
            Phone: (908) 737-4253  
            Room: W-406J  
            Email: jliou@kean.edu  
            http://www.kean.edu/~jliou/classes.htm

Class Room: HH221
Class Hours: Wednesday 12:30 PM – 3:15PM
Office Hours: Monday – Thursday. Details provided on my Web site.
Instruction Method: Lecture & Lab.
Textbook:
      Building Applications in the Cloud, Addison Wesley, 2011.
PowerPoint slides will be used in class.
Grading: Homework & Reading Assignments (10) 20% Lab. (4 reports) 30%
         Midterm 20% Final & Term Project 30%

Course Description & Objectives:
This course is to provide students fundamental concepts, platforms, and technologies on cloud computing.

Upon completion of the course, students will be able to understand all platforms, and technologies on cloud computing and utilize Google, Amazon, Microsoft and any available cloud services. In addition, students will apply programming skill in developing cloud computing applications.

Homework Assignments (HAs) and Lab. Report (LRs) submission policy:
  • Students are expected to submit paper format HA and/or LR in the following week of the session, unless is mentioned otherwise.
  • Late submission is allowed for up to a week delay, with a 10% deduction in grade.

Important University Dates:
The Kean Academic Calendar is online at http://www.kean.edu/KU/Academic-Calendar.
Academic Integrity Policy: http://www.kean.edu/forms/AcademicIntegrity.pdf
Tutoring and learning Support services: http://www.kean.edu/~castutor
Schedule:

9/4: Overview: Introduction to Cloud Computing
9/11: Cloud Architecture
9/18: Cloud Services
   Lab 1: Storage As A Service (IAAS)
9/25: Cloud Infrastructures and Software Design
   Lab 2: Exploring Microsoft Office 365
10/2: Programming Microsoft’s Clouds – I
   Lab 3: Exploring Microsoft Azure
10/9: Programming Microsoft’s Clouds - II
10/16: Programming Microsoft’s Clouds - III
10/23: Project presentation – MS Office 365 and Azure
10/30: Midterm Exam
11/6: Cloud Services and Applications – I
   Project presentation NAS
11/13: Cloud Services and Applications – II
   Midterm review
11/20: Mobile Cloud
   Lab 4: Develop application in SaaS model
11/27: Cloud Security - I
12/4: Cloud Security -II
12/11: Project presentation - SaaS
12/18: Final Exam