Homework #1

• Learn the IEEE paper “Definition and Classification of Power System Stability”
• Select 1 journal/conference paper published by IEEE since 2010 that introduces or addresses some stability problems on bulk power systems
  – Source: http://ieeexplore.ieee.org or http://scholar.google.com
  – Keywords: e.g. “power system” + “stability”
• Write a 1-2 pages essay (not Q&A’s):
  – Title, authors, source of the paper
  – Background:
    • What stability problem is concerned? (Which IEEE categories?)
    • Why is the problem significant? (Any real-world stories?)
    • In which aspect(s) was the problem not addressed well in earlier literature?
  – Approach
    • What new approach is proposed? (Outline of the procedure or steps)
    • Any key techniques are applied by the approach?
    • How does the new approach perform?
  – Remark
    • Any conclusions from the work, or any room for further work
• Give a 3-5 minutes talk on your chosen paper and hand in your essay in the class of Jan 23 (Thursday). Please email me the paper title by Jan 22 (Wed.) 5pm