Candidate Problems of Mid-term Exam for Future Internet Class

Fall 2010

1. Why do we need Future Internet?

2. What are the core technologies for Future Internet?

3. If you are an Internet designer, how can you accomplish Clean Slate approach and Evolutionary approach, respectively?

4. Explain of the Future Internet Initiative of US and EU.

5. Explain the new Future Internet projects in 2010 of NSF-CSIE.

6. Explain the FIRE in detail.

7. Explain the concept of Virtualization, Aggregate, Substrate, Slice, Sliver.

8. Explain the features of EFII PPP.

9. What is the Hourglass model of the current Internet?

10. What is the NDN?

11. Explain the basic concept of OPEN Flow.

12. Explain the basic concept of the EIA network architecture?

13. Explain the basic concept of the Recursive Networks?

14. Explain the IoT conceptual Layers.

15. Explain the features of FP7 IoT-A.

16. Compare among Mesh network, Ad-Hoc network and Sensor network.

17. Explain service discovery mechanism.

18. Explain the service discovery mechanisms which consider the context and semantics.

19. Explain the important features which consider in the 2nd stage of FIRE Projects.

20. Explain the cognitive radio projects in FIRE.

21. Differentiate the GEANT and OneLab(2)

22. Discuss the routing problems in FI. What is the main problem in routing scalability?