

CS 542 Qualifying Exam

1. What are the main differences between homogeneous sensor network environment and mobile personal sensor network (PSN) environment? What are the differences in the requirements of the sensor platforms for the two environments? (10 points)
2. What would be the major new workload on personal mobile platforms such as smart-phones which will be imposed by emerging mobile pervasive applications? (10 points)
3. What is the main characteristics of the emerging pervasive services compared to existing Internet services? (15 points)
4. What do you think are the major, new common (system) components in the service architecture of the emerging pervasive computing environments? (20 points)
5. What are the technical challenges to design, implement, and deploy such system components? (20 points)
6. What is your solution approach? (25 points)