Semantic correlations between QoS specifications of P2P-based e-services
Supervisor: Dr. Jun Shen

Description:
It is believed that QoS (Quality of Service) can bring efficiency to the P2P-based selection process of e-services and provide more reliable services for users. However, the dependencies of service’s QoS specifications have not been addressed clearly yet. For example, the QoS specifications include response time, availability, accessibility and performance. The unclear correlation, which refers to an association relationship, between those different QoS specifications, is always the obstacle in service matchmaking. The problem is that, it is quite hard to match the appropriate service when dealing with lots of different QoS specifications without reasonable constraints. To properly clarify the semantic correlations of QoS properties will be very significant for the development of QoS-aware e-services. The student will develop strategies or techniques to efficiently organise those QoS specifications.

Expected Outcome:
The student is expected to further theoretical investigation and analysis on the correlations between current service QoS criteria for semantics matchmaking. If possible, conference or journal publication would be considered after completing this project.