Queueing and Networks

Owing to the pressing needs in applications, the research in queueing theory remains a very active area. Innovative ideas using switching diffusions to replace diffusion models have gained ground. Stochastic partial differential equations have also been brought into the research front. Research in networked systems has received much attention through the years. In addition to traditional applications in chemical reaction systems, communication networks, and wireless networks, the areas of networked systems have been evolving rapidly due to recent interests in new areas of research in social networks, cyber-physical systems, and multi-agent systems, among others.