Electricity load forecasting (with Vassilios Agelidis)

The electricity load follows a complex daily, weekly and yearly pattern. Accurate prediction based on previous load and other factors (e.g. weather, etc) is very important. It is used for optimal allocation of generators and setting the minimum electricity reserve to ensure efficient and reliable electricity supply. The goal of this project is to investigate the electricity load pattern and develop methods for 5-minute ahead load forecasting, including variable and algorithm selection. Real data for NSW will be provided.

Recommender system for online dating (with Kalina Yacef and Judy Kay)

Online dating systems are very popular, attracting millions of users. The goal of this project is to investigate the use of Machine Learning and Data Mining approaches to improve matching of people based on their profile (e.g. age, education, etc.) and behaviour (e.g. other users they have contacted). Real data from an online dating system will be provided.