# MODELLING & SIMULATION

## Project 5 to be done in 3 weeks (from 02.12 or 03.12)

Write a program that uses a genetic algorithm to solve **8 queens problem**. Implement:

- 8-digit genome,
- the fitness function:

$$f(configuration) = 28 - number\_of\_attacks(configuration),$$

- roulette wheel selection,
- crossover operator with random crossover site,
- standard mutation. (as explained on the lecture )

Experiment with the size of the population and the probability of mutation (in general, that probability should be low).