The University of Birmingham

School of Mathematics

3HO4 Heuristic Optimization

<u>Extra Task</u>

Lecturer: Dr. S. Z. Németh

4th year MSci students and MSc/PhD students will have to write an essay of 3-5 pages about a Heuristic Optimisation topic of their choice.

<u>Deadline</u>: 7th week of term, Friday 1pm. Put your essays into my white pigeonhole on the first floor of Watson building.

The topic of the essay must go beyond the taught syllabus. Some possible essay topics:

- Description of a heuristic optimisation method which is not in the lecture notes, but it is part of the literature,
- New topics about a heuristic optimisation method from the lecture notes,
- A case study or non-trivial examples (not part of the lecture notes, problem sheets or class test 1) about a heuristic optimisation method described in the lecture notes,
- Solving a non-trivial optimisation problem (not part of the lecture notes, problem sheets or class test 1) by using a heuristic method (which can be from the lecture notes, from the literature or original),
- A new heuristic optimisation method proposed by the student.

The essay will be marked PASS or FAIL. If a 4th year MSci student or an MSc/PhD student fails this assignment his/her overall continuous assessment mark for 3HO4 will be 0. If a 4th year MSci student or an MSc/PhD student passes this assignment his/her overall continuous assessment mark for 3HO4 will be the better mark of the two class tests.