Minutes 6th Meeting Group 14

June 07 2017

MF 5.146

Present: *Bogdan Floris* (chairman) , *Jelle Wemmenhove*, *Mike de Brouwer*, *Sergiu Marin*(secretary), *Job Savelsberg*, *Martijn Struijs* (tutor)

1 Opening

Bogdan opens the meeting at 16:59 hour.

1.1 General remarks

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2 Feedback Midterm Report

- Overall, the report was decent - the algorithms were interesting - the descriptions lacked and was sometimes unclear.
- we should label the figures - add captions.
- the running time for the brute force algorithm should be explained better.
- we should only mention the running times briefly - also a short description of how we arrived at that running time should be added
- introduce the terms either at the start of the algorithm or in the introduction (bin and rectangles) (it's maybe better to call them all rectangles to make the paper more consistent - this is a mathematical paper and not an essay)

3 State of the algorithms

- BinTreeAlgorithm - now considers all the heuristics - this is done - the only thing that needs to be done is to make sure that it runs in under 5 min on a difficult test case
- Optimal Algorithm - the first pruning step is done - the issues were with testing - now that is being fixed - the pruning indeed makes things easier.
- Maximal Rectangles Algorithm - some minor optimizations are to be added

4 Report

For the testing part - replicate the tests from the papers - also pick samples on which the algorithm does well or super bad and explain why that happens. For the report it may be a good idea to cut the pseudocode all-together in order to save up space.

5 Assigning Tasks

- Bogdan: experiment with the algorithm and add special test cases
- Sergiu: improve the Maximal Rectangles Algorithm and rewrite the Optimal and Maximal Algorithm section in the report
- Mike: add pruning and test the actual pruning
- Job: generate the test-cases, also start working on the report
- Jelle: implement improvements for optimal rectangle packing

6 Final Remarks

No final remarks.

7 Closing

Bogdan closes the meeting at 17:31.