

Research plan - CSE3000

*- Using Weighted Voting to Accelerate
Blockchain Consensus-*

Micloiu Diana

RESEARCH PLAN

WEEK 1

- Read papers
- Identify 10 relevant papers for research
- Understand the weighting mechanism behind AWARE
- Study streamlined algorithms (Hotstuff and DAMYSUS)

WEEK 3

- Apply weighted voting on a specific streamlined algorithm
- Identify relevant performance metrics
- "Contribution" section

WEEK 5

- "Responsible Research" section
- Midterm presentation
- Tweak the algorithm and perform simulations in different settings to identify edge cases and limitations

WEEK 6

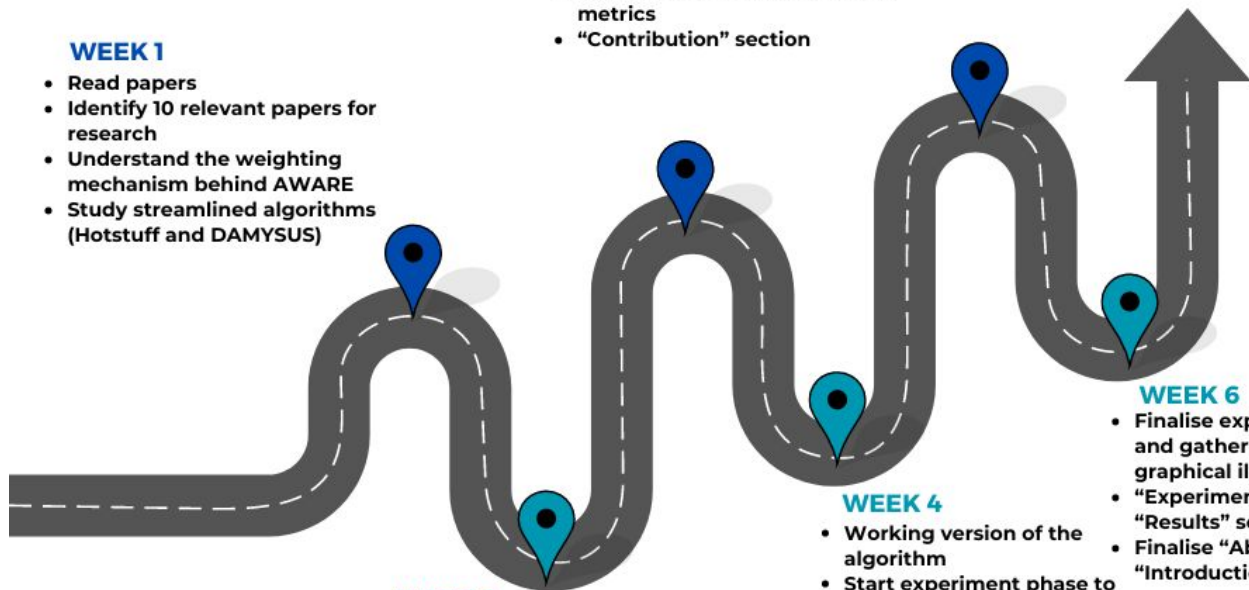
- Finalise experiment phase and gather all data in form of graphical illustrations
- "Experimental setup" and "Results" sections
- Finalise "Abstract" and "Introduction" sections

WEEK 4

- Working version of the algorithm
- Start experiment phase to gather data and analyse it
- Draft "Abstract" and "Introduction" sections

WEEK 2

- Define what weighted voting is in the context of streamlined algorithms
- Try validating the idea by implementing a simplified version of a streamlined alg.
- "Background and Related work" section
- "Problem description" section



RESEARCH PLAN

WEEK 7

- Review paper of fellow student
- Incorporate peer review feedback
- "Discussion" section
- Review algorithm and paper and adjust any irregularities

WEEK 8

- Complete "Conclusion and Limitations" and "Future work" sections
- Review paper citations to ensure correctness and completeness
- Make "Abstract" concise and more comprehensive

WEEK 10

- Provide deliverables on TUDelft repository
- Prepare poster and presentation
- FINAL PRESENTATION

WEEK 9

- Reiterate a sample of the experiments to ensure reproducibility
- Clean up and document code
- Properly document experiments and prepare them as deliverables
- Proofread final version of paper and submit it

