2018 Research Interest/Project Ideas

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- Robust Distributed Wind Power Engineering - Improving the Performance of Wind Farms
- PoachNet, an IOT System for the Protection and Monitoring of AquaFarms
- Virtual Reality Applications Course
- Conservative Garbage Collection for General Memory Allocators. GC for C/C++ Programs

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A Loggable Programming IDE for Education and Research

In this project we want to extend Programming IDE's such as NetBeans, and Eclipse to be able to record the interaction of the programmer and the IDE. With this information we want a) Observe how programmers interact with the IDE to determine where they spend most of their time b) Help to find new IDE features that save the programmers time and make the programmer more efficient. c) Find out what language constructions are the most difficult for the programmer to use. d) Determine where the students spend most of their time and what are their most common problems. e) Make sure that a student have worked on a project by having a trace of the work and measure progress. Given the increase in the class size in computer science, tools like this one could facilitate teaching and grading assignments in large classes.