

Computer-Aided Reasoning for the Masses

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Abstract. A good test of the usability of formal verification techniques and tools is whether they can be successfully integrated into the undergraduate curriculum. Widespread use of formal verification techniques at the undergraduate level will require that we convince our colleagues that such techniques benefit our students more than the material they replace. Widespread use of formal verification tools will not only require robust, mature, and usable tools, but will highlight the true remaining usability issues. At Northeastern University, we embarked down this path several years ago. We introduced a required freshman class that teaches students how to reason about the programs they write using ACL2s, the ACL2 Sedan. So far, over 200 undergraduate students have taken the class.

1 Formal Methods at the Undergraduate Level

The case for teaching formal methods at the undergraduate level is easy to make: formal methods provide the foundations that allow us to understand, reason about, and gain predictive power over computational processes and artifacts. If we want to train engineers who can build the computational systems our society is increasingly dependent so that they are robust, dependable, and secure, then we have to teach these engineers how to model and reason about computational systems using mathematical rigor and precision. This is inherently different from what students learn in courses on algorithms. There the emphasis is on introducing paradigms that are useful for designing computationally efficient algorithms, such as dynamic programming and the greedy method.

The next step is to figure out where such a class fits in at the undergraduate level. What are the prerequisites? Well, students have to have a solid foundation in programming. At Northeastern, they get that in their first semester, when they learn how to design programs using a Scheme-based functional programming language [2]. The earliest we can teach a course on formal methods is in the second semester of the undergraduate program, and that is what we do. While there are obvious disadvantages to teaching such a course that early, the advantages are greater: if we want to change how students think about programming and computer science, we need to instill these values in them early. Teaching formal methods during the first year, helps shape how they think about computer science as they navigate through the undergraduate program.

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