Developing programming problem-solving skills using individualised screencasts

Christine Gardner, Sarah Mattingly, Richard Walker

The project
- TM111 tutors to provide short video screencasts containing personalised TMA feedback
- Tailored to individual misconceptions, mistakes and areas for improvement
- Audio and visual insight into how an experienced programmer solves a problem

Aims
- Do students understand concepts more deeply?
- Are they more skilled at programming problem-solving?
- What kind of content is most beneficial?
- How time-consuming for tutors?

18J
- Five tutors give screencast feedback
- Tutors and students surveyed and interviewed

19J
- Disseminate recommendations to all 19J tutors, get volunteers for 19J
- Tutors and students surveyed and interviewed

Future potential for screencast feedback
- Continue use on TM111
- Develop use in other programming modules e.g. TM112
- Develop use in other problem-solving disciplines e.g, maths