Christoph's research

- Human Aspects of Software Engineering (2009-)
  - How do software developers use social media mechanisms?
    - Empirical studies, mostly qualitative
- Mining Software Repositories (2012-)
  - How can we get information to developers when and where they need it?
    - Natural language processing
    - Machine Learning
    - Software documentation
    - Summarization
    - …

https://dysdoc.github.io/

Third International Workshop on Dynamic Software Documentation (DySDoc3)

Hosted by the **IEEE International Conference on Software Maintenance and Evolution (ICSME 2018)**

The DySDoc3 workshop will host the **First Software Documentation Generation Challenge (DocGen),** which aims to spur research on automation of software documentation generation. Participation in the challenge involves developing a prototype tool and entering it in a competition. The competition will feature a live, juried tool evaluation, presentations of the best approaches, and a poster session. The extended summaries describing the entries will be published in the ICSME proceedings. The best entries will be recognized with awards.

July 20, 2018 - Qualifier submissions
July 27, 2018 - Notifications of qualifiers
August 3, 2018 - Camera-ready version for accepted challenge entries

Markus' research

- What does Markus do?
  optimisation theory: how long until…
  optimisation algorithms: how to navigate configuration spaces
  optimisation applications: smartphone apps, wave energy,
  water networks, …

  If there is one thing that I'd like to to remember: I optimise –
  in teams (90+ co-authors).
  https://cs.adelaide.edu.au/~markus/

- Tim Menzies @ MSR, 29 May, 11am, room E4
  "Data-Driven Search-Based Software Engineering"
  → result of a NII Shonan in Dec'17
  - MSR methods can "supercharge" SBSE → learn from others
  - SBSE methods can "supercharge" MSR → do tuning
    (make Oz-SE great … make Oz-SE even greater!!!)

Genetic Improvement of Software Workshops (2x in 2018!)

- 4th edition @ ICSE (by UCL and friends, 2 June): http://geneticimprovementofsoftware.com/
- 5th edition @ GECCO (Markus and friends, perseverance paid off, July in Kyoto): http://www.cs.stir.ac.uk/events/gecco-gi-2018/

Genetic … *what*? → Kind of like Search-Based Software Engineering (SBSE), but mostly close to the code.

Let an algorithm deal with configuration optimisation / specialisation of code / …,
(1) because we don't teach it, (2) because we can.

TODOs

- Slides from yesterday and today
  - Send to me and I'll put them on the event website
- Online group for Australian SE researchers
  - Facebook, Google Groups, … -- Volunteer?
- Australian SE website
  - Summaries of current research interests -- Volunteer?
- Next event
  - Volunteer?
- Collaboration opportunities
  - co-supervision, grant proposals, hosting conferences, …