

Reusable software and reproducibility in music informatics research

Mark D Plumbley, Chris Cannam, Simon Dixon
Centre for Digital Music
Queen Mary, University of London

Research Papers: Open Access

Open Access Publication of Papers

What is “Open Access”

- Publication is free to download – and sharable? (Licence?)

Why make papers open access?

- Helps other researchers
- Increases impact of your research

Funder or institution policies (See <http://roarmap.eprints.org>)

- UK – RCUK - Journal and Conference papers (from Apr 2013)
<http://www.rcuk.ac.uk/research/Pages/outputs.aspx>
- NIH Public Access Policy – Must submit to PubMed Central
<http://publicaccess.nih.gov/policy.htm>
- Harvard – Open Access Policy <http://osc.hul.harvard.edu/policies>

Types of Open Access

- Self-archiving
 - Can you upload your paper on your own website?
 - If yes, which version?
 - Preprint: submitted version, before reviewing)
 - Postprint (“Accepted Author Manuscript”): updated version, after reviews, before typesetting/proof
 - Publisher’s version: as appears in the journal/conference
- Paid Open Access – “Author Pays” model
 - Article available for free download from publisher
 - May or may not allow self-archiving too

What does my journal allow?

Website: SHERPA/RoMEO: <http://www.sherpa.ac.uk/romeo/>

RoMEO Colours:

- Green - can archive pre-print and post-print or publisher's version/PDF
- Blue - can archive post-print (ie final draft post-refereeing) or publisher's version/PDF
- Yellow - can archive pre-print (ie pre-refereeing)
- White - archiving not formally supported

Also people talk about “Gold” for Paid Open Access

RoMEO Examples: IEEE Trans ASLP

IEEE Transactions on Audio, Speech and Language Processing

- **Green** - pre-print, post-print, not publisher version (since 2011)
- Authors own and employers publicly accessible webpages OK

Special conditions:

- Preprint - Must be removed upon publication
- Set phrase required:
"(c) 20xx IEEE. Personal use of this material is permitted.
Permission from IEEE must be obtained ..."
- Etc.

RoMEO Examples: JNMR

Journal of New Music Research

- **Yellow** – Pre-print OK, post-print embargo, not publisher's version
- Can archive pre-print (ie pre-refereeing)
- Can archive post-print after 18 month delay from publishing

Special conditions:

- Set phrase wording required e.g.:
"This is an Author's Original Manuscript of an article whose final and definitive form, the Version of Record, has been published in the [JOURNAL TITLE] [date of publication] [copyright Taylor & Francis], available online at: [http://www.tandfonline.com/\[Article DOI\]](http://www.tandfonline.com/[Article DOI])."
- Etc.

RoMEO Examples: CMJ

Computer Music Journal

- **Yellow** – Pre-print OK, but no Post-print
- 6 months embargo
- General conditions:
 - Pre-print must be accompanied by acknowledgment of acceptance for publication in Journal
 - On authors website or institutional repository
 - Publisher copyright and source must be acknowledged
 - Must link to journal homepage
 - Publishers' copyright statement must be included
 - If funding agency rules apply, authors may post articles in PubMed Central immediately after publication, but may be subject to journal embargoes
- Publisher's version/PDF must be used for post-print deposit

Not all on RoMEO yet

E.g.

- Acta Acustica United with Acustica
 - Policy not on RoMEO
- Journal of the Audio Engineering Society
 - RoMEO colour “White” (“archiving status unclear”)
- Could you help?

Conferences? Book chapters?

Conferences

- Vary widely – check the conference policy
- Read the wording in the author agreement you sign!

Book chapters

- Not normally open access - read the agreement.
- Don't just sign agreement – Negotiate an “Author Addenda”!
 - E.g. Columbia University: <http://copyright.columbia.edu/copyright/copyright-ownership/publication-agreements/>

Things to do tomorrow (or today!)

- Check your journals on RoMEO, read publisher policy
- Self-archive the papers you can (start with most important)
 - NB: Check the conditions, E.g. Set phrases to add
- Ask the publisher for permission to self-archive old papers
- Consider open access policies for your next journal/conference
 - But: Don't choose just because it says "Open Access"
 - Make sure you know about author fees (can be £/€/€ 1000+)
- Negotiate your next book chapter publishing agreement

- Ask your institution library for help – they'll want to help you!

Wrap-up

We have covered

- Helping the “Research Pipeline” work:
 - Reproducible Research
- Software
 - Code Review, Unit Testing, Version Control, Licence, Publish
- Data
 - Preserve, Document, Organize, Review, Licence, Publish
- Open Access Papers
 - Read the agreements, Choose/Negotiate, Publish

Suggestions for research groups

Code:

Aim at easy training targets

- Researchers may know less about coding than you'd think!
- Program structure, arranging code across files etc

Encourage collaborative development

- Papers often co-authored, why not code?
- Create an environment of confidence about sharing

Insist on use of version control

- Use what you have available, or code.soundsoftware.ac.uk

Turn code into plugins or components in modular systems

- Latch onto the existing ecosystems of popular applications

Suggestions for research groups

Data:

- Q: What would happen if disaster? (Building burns down, etc)
- Institutional data policy – What is it? Do they need one?
- Investigate data management plans (e.g. DMP Online)
- Include data curation costs in funding proposals

Papers:

- Have an Open Access policy
- Ask your institution publications librarian to help you
- Work with societies/conferences to encourage open access

Do research that makes an impact!

- Develop and publish **reusable** research software
- Manage and publish **reusable** research data
- Make your **research papers** open access
- Make your research **reproducible** and **reusable**

Links

All the slides, handouts and further links can be found at:

<http://soundsoftware.ac.uk/ismir-2012-tutorial>

Questions?