Open Access

Peter Schwabe
Radboud University, Nijmegen, The Netherlands

June 7, 2016

Summer school on real-world crypto and privacy
Šibenik, Croatia
“THE COUNCIL OF THE EUROPEAN UNION

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12. AGREES to further promote the mainstreaming of open access to scientific publications by continuing to support a transition to immediate open access as the default by 2020”

—Brussels, 17 May 2016
“A great deal of time in research is spent on doing the same things over and over again by different groups and people. In part this redundant work is necessary to understand and verify previous results and techniques, but still a significant amount of time is wasted simply because results are not publicly available or not usable because of copyright restrictions. This wasted time could be saved if all results (including software) of all publicly funded research automatically entered the public domain.”
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—me, Eindhoven, 24 January 2011
OA Advantages

For the community

▶ Reduce effort for others to find/obtain papers
▶ Make your results verifiable
▶ Make it easier for others to improve on your results
▶ Advance the field faster!
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OA Disadvantages

- Hard to do for some high-ranking journals
- Can be expensive
- Can be tedious
Green, Hybrid, and Gold OA

Green OA

- Self-archived papers, institutional or thematic
- Examples: arXiv, IACR’s eprint

Gold

- Articles published in open-access journals
- Authors pay an “article processing fee” (APC)
- Publisher makes article openly available for everybody

Hybrid

- Similar to Gold, but OA only as an option
- Publisher makes part of the revenue also through subscriptions
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OA Howto

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- Springer copyright form allows you to put your papers online
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- Put your papers there

Some journals have open-access options, for funding:
- Check whether your project has money (e.g., H2020):
  - Publishers often charge so-called "article processing charges" (APC). These costs are eligible for reimbursement during the duration of the action as part of the Horizon 2020 grant
- Check whether your university has special OA funding
- Don't underestimate your negotiation position
- Don't underestimate the value of open access (see advantages before)
In crypto, most papers are in LNCS volumes

Springer copyright form allows you to put your papers online

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Publishing software

- Quite a few crypto software-implementation papers
- Also other papers that use or describe useful software
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Submit high-speed crypto software to eBACS: 
http://bench.cr.yp.to
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- Place a link to the software in your paper
- Document your software
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- Document your software
- Test the documentation and software package on a completely clueless colleague
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Publishing hardware

- Essentially the same as for software
- Provide a walk-through Howto to make your implementation work
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- Provide a walk-through Howto to make your implementation work
- Similar for software implementations on special hardware
- Hopefully useful example:
  http://munacl.cryptojedi.org/curve25519-cortexm0.shtml
Summary

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▶ Be nice to your readers
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- Read copyright forms
- Don’t’s sign forms that you are not comfortable with
- Don’t’s sign *anything* that you are not comfortable with
Questions?

peter@cryptojedi.org