# Publishing your Research

Sven Apel

UNIVERSITÄT
PASSAU

PROFESSOR McWIT DIDN'T PUBLISH SO PERISHED

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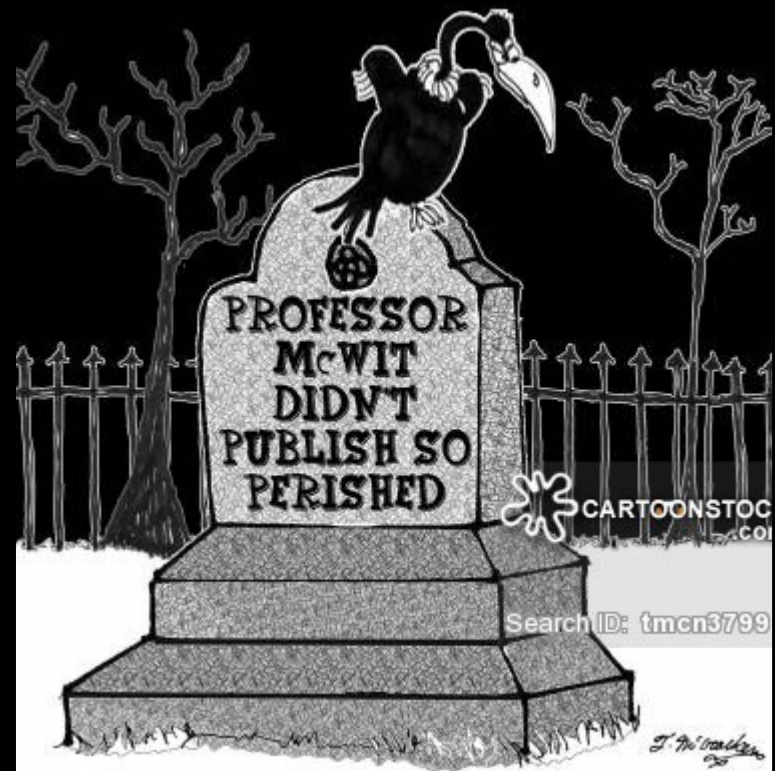Publish… why?

Publish… where?

Publish… for whom?

Publish… how?

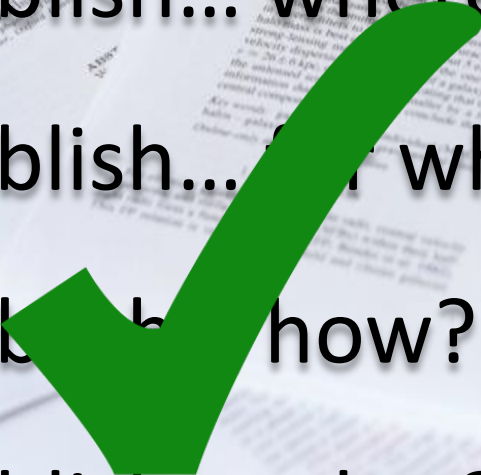Publish… what?

Publish… when?

Publish... why?

Publish... where?

Publish... for whom?

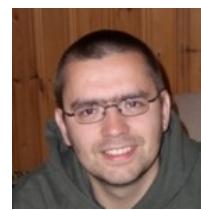Publish... how?

Publish... what?

Publish... when?

# My…

# Possibly…

# Career Stages

2003 PhD Student @ University of Magdeburg

2007 Post-Doc @ University of Passau

2010 Junior Research Group Leader

2013 Full Professor

# My Record

28 papers in top conferences (ICSE, ESEC/FSE, ASE)

13 articles in top journals (TSE, TOSEM, TOPLAS, EMSE)

CACM, ACM Computing Surveys, IEEE Computer, …

Text book

# The Currency of Research?

# Beware!





**hyp·o·crite**

(hip′ə krit)

Function: *noun*

Meaning:
1. a person who puts on a false appearance of virtue or religion
2. a person who acts in contradiction to his or her stated beliefs or feelings

# Quality over Quantity!

# h-index
→ pressure
→ misbehavior



DFG - Deutsche Forschun...

www.dfg.de/service/presse/pressemitteilungen/2010/pressemitteilung_nr_07/

elan    GEPRIS    Research Explorer    Presse    Kontakt    Gebärdensprache    Leichte Sprache    English

**DFG** Deutsche Forschungsgemeinschaft

Förderung    Geförderte Projekte    DFG im Profil    DFG MAGAZIN

Startseite › Service › Presse › Pressemitteilungen › 2010 › „Qualität statt Quantität" - DFG setzt Regeln gegen Publikationsflut in der Wissenschaft

Pressemitteilung Nr. 7 | 23. Februar 2010

„Qualität statt Quantität" - DFG setzt Regeln gegen Publikationsflut in der Wissenschaft

Wissenschaftler sollen in Förderanträgen und Abschlussberichten nur noch wenige und besonders wichtige Veröffentlichungen angeben / Kleiner: „Auf die Inhalte kommt es an"

Unter dem Motto „Qualität statt Quantität" schlägt die Deutsche Forschungsgemeinschaft (DFG) Pflöcke gegen die Publikationsflut in der Wissenschaft ein. Deutschlands zentrale Forschungsförderorganisation stellte heute neue Regelungen für Publikationsangaben in Förderanträgen und Abschlussberichten vor, die vom 1. Juli dieses Jahres an gelten. Sie sehen im Kern vor, dass Wissenschaftlerinnen und Wissenschaftler in ihren Anträgen und Berichten an die DFG künftig statt beliebig vieler Veröffentlichungen nur noch wenige, besonders aussagekräftige Publikationen als Referenz nennen dürfen. So soll die immer größere Bedeutung von Publikationsverzeichnissen und numerischen Indikatoren verringert werden. Zugleich soll die eigentliche Beschreibung des Forschungsprojekts mehr Gewicht erhalten. „Damit wollen wir zeigen: Es sind die Inhalte, auf die es uns bei der Bewertung und Förderung von Wissenschaft ankommt", sagte DFG-Präsident Professor Matthias Kleiner bei der Präsentation der Regelungen in Berlin.

Die neuen Regelungen wurden kürzlich auf Vorschlag des DFG-Präsidiums vom Senat der DFG beschlossen und vom Hauptausschuss zustimmend zur Kenntnis genommen. Sie betreffen zwei zentrale Stellen in Förderanträgen und Abschlussberichten: die Literaturangaben zum wissenschaftlichen Lebenslauf der Antragstellerin oder des Antragstellers sowie die Literaturangaben, die einen direkten Bezug zum beantragten oder bearbeiteten Forschungsprojekt haben.

Bei ihrem wissenschaftlichen Lebenslauf dürfen Antragsteller künftig insgesamt maximal fünf Veröffentlichungen anführen – „eben jene fünf, die sie selbst für die wichtigsten ihrer gesamten wissenschaftlichen Arbeit halten", wie DFG-Präsident Kleiner unterstrich. Bei den Publikationen mit direktem Bezug zum jeweiligen Projekt dürfen künftig pro Jahr der Förderperiode nur zwei Veröffentlichungen angeführt werden. Ein Wissenschaftler, der in der Einzelförderung Fördermittel für drei Jahre beantragt, darf hier also bis zu sechs seiner Veröffentlichungen nennen. Bei mehreren Antragstellern können pro Jahr bis zu drei Veröffentlichungen angegeben werden.

In allen Fällen sollen nur Publikationen genannt werden, die bereits veröffentlicht sind oder deren Veröffentlichung unmittelbar und nachweisbar bevorsteht; letztere müssen daher als Manuskript und mit einer Annahmebestätigung des Herausgebers eingereicht werden. Manuskripte, die nur zur Veröffentlichung eingereicht, aber noch nicht angenommen wurden, dürfen nicht mehr aufgeführt werden.

Im Gegenzug zu diesen Begrenzungen soll der eigentliche Hauptteil des Antrags wieder wichtiger werden, also die Schilderung dessen, was Antragsteller erreichen wollen und hierzu bereits an eigenen Arbeiten geleistet haben. Dieser Hauptteil soll aus sich selbst heraus verständlich sein und so zur Grundlage für die Begutachtung und Bewertung des Forschungsprojekts werden.

Mit diesen Regelungen will die DFG der seit Jahren steigenden Bedeutung quantitativer Faktoren im Zusammenhang mit wissenschaftlichen Publikationen entgegenwirken. „Ob bei der leistungsorientierten Mittelvergabe, bei Habilitationen und Berufungen und auch bei den Bewertungen von Förderanträgen – überall haben numerische Indikatoren wie der Hirsch-Faktor oder der Impact-Faktor immer mehr Gewicht bekommen. Oft lautet die erste Frage eben nicht mehr, was jemand erforscht hat, sondern wo und wie viel er publiziert hat. Das übt einen außerordentlich starken Druck auf Wissenschaftlerinnen und Wissenschaftler aus, möglichst viel zu publizieren. Und es verleitet immer wieder zu Fällen wissenschaftlichen Fehlverhaltens, in denen falsche Angaben zum Stand einer Veröffentlichung gemacht werden. Das alles schadet der Wissenschaft", betonte der DFG-Präsident.

Deutsche
Forschungsgemeinschaft

**Evaluation des
DFG-Förderprogramms
SFB/Transregio**

**DFG**

**Abbildung 11:**
Vergleich der h-Indices der Teilprojektleiterinnen und Teilprojektleiter von acht SFB/Transregio (TRR) und neun Sonderforschungsbereichen (SFB) aus dem Fachgebiet Medizin
(Einrichtungsjahre 2000 bis 2007)
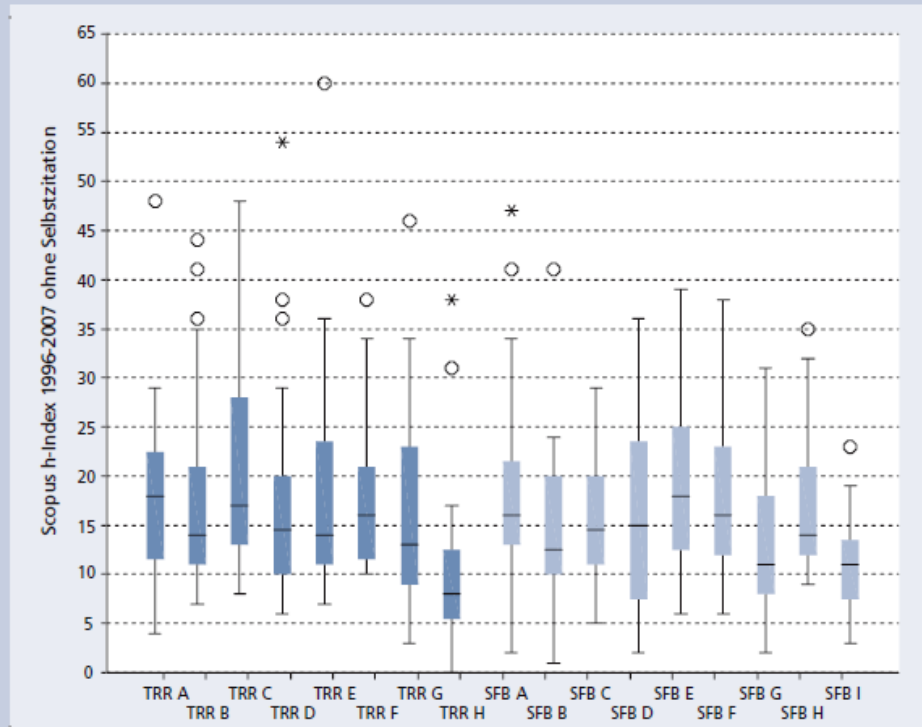


Die Grenzen der markierten Rechtecke entsprechen dem 25 %- bzw. 75 %-Percentil (Interquartilsabstand). Der Medianwert ist als waagerechter Strich im Rechteck zu erkennen. Die Länge der Whisker nach oben und unten beträgt maximal das Eineinhalbfache der Länge des Rechtecks. Alle Werte außerhalb der Whisker werden als Ausreißer (bis maximal dem Dreifachen der Rechtecklänge außerhalb der Box – hier als Kreise markiert) bzw. als Extremwerte (mehr als dem Dreifachen der Rechtecklänge außerhalb der Box – hier als Sterne markiert) bezeichnet.

**Quelle:** DFG-Geschäftsstelle, Elsevier Scopus Datenbank, Auswertung und Darstellung Technopolis

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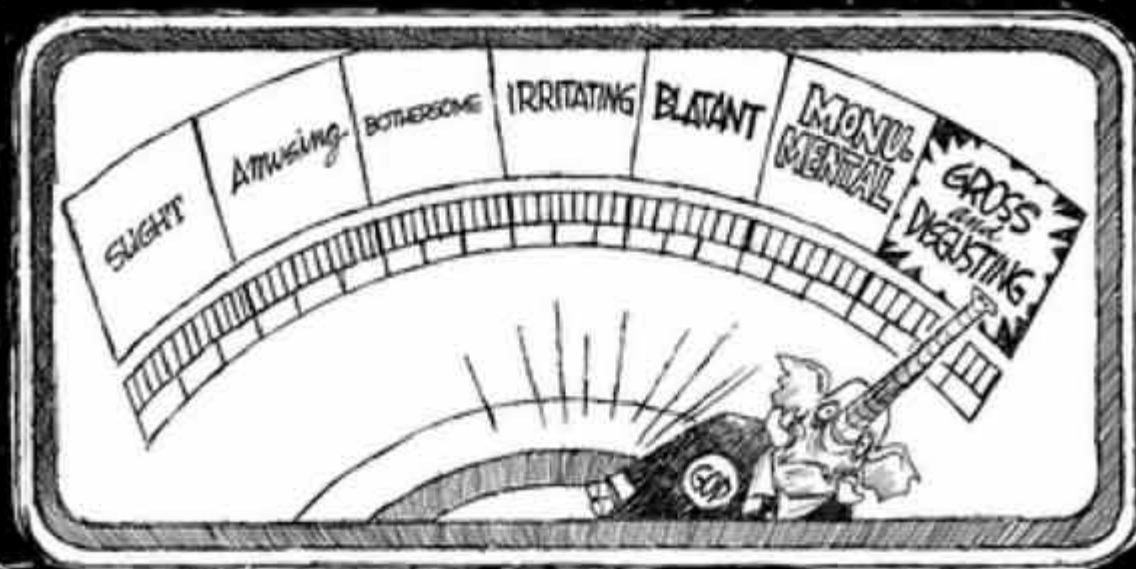
# Topics…

Venues

Bibliometrics

Tradeoffs and Strategies

Co-Authors

# Venues

# Venues

Top venues: ICSE, ESEC/FSE, ASE

Focus venues: SPLC, GPCE, ICPE, RE, MoDELS, …

Community meetings: FOSD, VaMoS, …

Going beyond: IEEE Software, CACM, …

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issues: prestige, outreach, feedback, networking, …

# Pro tip: Grow a Community

# Bibliometrics

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# citations

i10-index

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h-index

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# Bibliometrics

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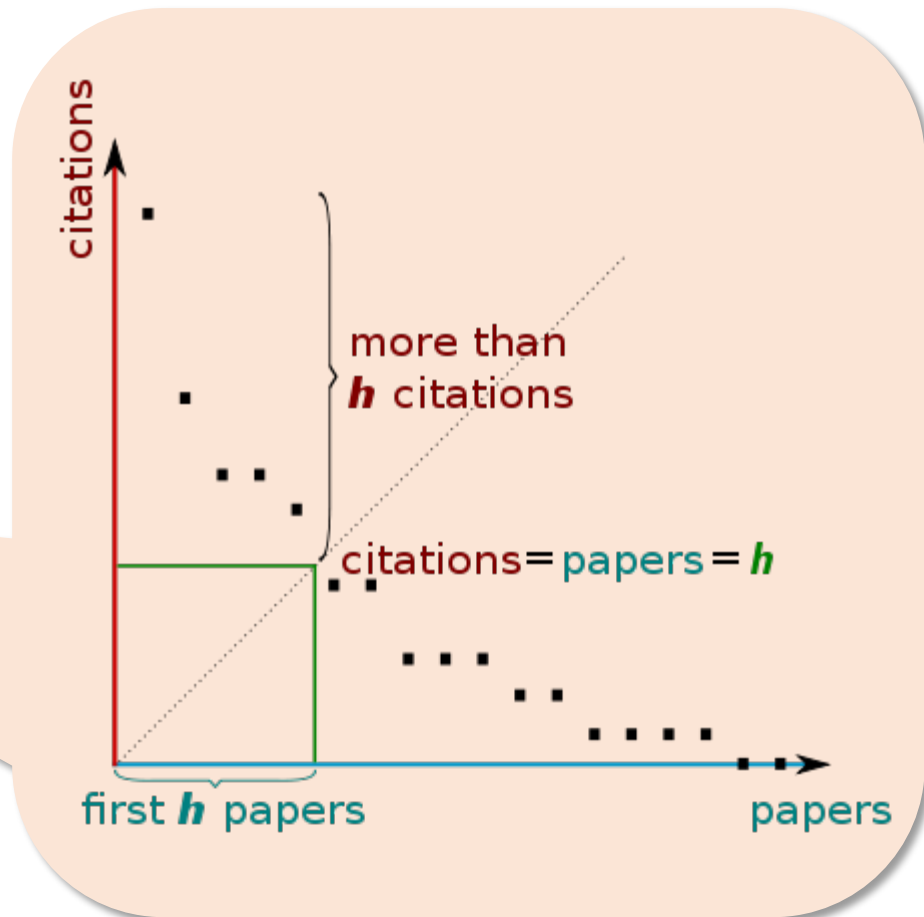
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Empirical Software Enginee...   SBSE

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Salva Trujillo
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Professor, IT University of Copen...

Claus Hunsen
Chair of Software Product Lines, ...

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Quantstamp

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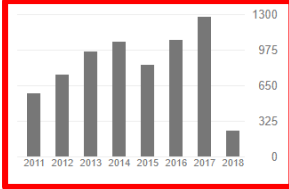| TITLE | CITED BY | YEAR |
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| TITLE | CITED BY | YEAR |
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- *affiliation:* University of Passau, Germany

[−] 2010 – today

**2018**

- [j42] André Lanna, Thiago Castro, Vander Alves, Genaína Nunes Rodrigues, Pierre-Yves Schobbens, Sven Apel: **Feature-family-based reliability analysis of software product lines.** Information & Software Technology 94: 59-81 (2018)
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- [c131] Vivek Nair, Tim Menzies, Norbert Siegmund, Sven Apel: **Using bad learners to find good configurations.** ESEC/SIGSOFT FSE 2017: 257-267
- [c130] Norbert Siegmund, Stefan Sobernig, Sven Apel: **Attributed variability models: outside the comfort zone.** ESEC/SIGSOFT FSE 2017: 268-278
- [c129] Sven Apel: **The new feature interaction challenge.** VaMoS 2017: 1

# Google Scholar

**Sven Apel** ✎  FOLLOWING

Professor of Computer Science, University of Passau
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Software Engineering  Programming Languages  Software Product Lines
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| TITLE | CITED BY | YEAR |
|---|---|---|
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| An overview of feature-oriented software development<br>S Apel, C Kästner<br>Journal of Object Technology (JOT) 8 (5), 49-84 | 384 | 2009 |
| Feature-oriented software product lines<br>S Apel, D Batory, C Kästner, G Saake<br>Springer-Verlag Berlin An | 352 | 2016 |
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| A case study implementing features using AspectJ<br>C Kästner, S Apel, D Batory<br>Software Product Line Conference, 2007. SPLC 2007. 11th International, 223-232 | 231 | 2007 |
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| A classification and survey of analysis strategies for software product lines<br>T Thüm, S Apel, C Kästner, I Schaefer, G Saake<br>ACM Computing Surveys (CSUR) 47 (1), 6 | 200 | 2014 |
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| Detection of feature interactions using feature-aware verification | 102 | 2011 |

### Co-authors  EDIT

Christian Kästner — Assistant Professor, Carnegie M...
Gunter Saake — Professor of Computer Science, ...
Norbert Siegmund — Professor of Computer Science, ...
Christian Lengauer — Professor für Informatik, Universi...
Thomas Leich — Professor für Informatik, Harz Un...
Marko Rosenmüller — TomTom
Don Batory — University of Texas at Austin
Janet Siegmund (Feigenspan) — Post Doc
Jörg Liebig — 4Soft GmbH
Alexander von Rhein — University of Passau
Thomas Thüm — Postdoc, TU Braunschweig, Ger...
Ina Schaefer — TU Braunschweig, Germany
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Jianmei Guo — Staff Engineer, Alibaba Group
Salva Trujillo — IKERLAN-IK4
Andrzej Wąsowski — Professor, IT University of Copen...
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We list only scientists having H-index>=40. If you or other scholars are not listed, we appreciate if you can **contact us**

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- 101-200

| World | National Ranking | | Scholar | Country | Citations | H-index |
|---|---|---|---|---|---|---|
| 14 | 1 | | Wil van der Aalst<br>RWTH Aachen University | Germany | 84,417 | 136 |
| 32 | 2 | | Bernhard Scholkopf<br>Max Planck Institute for Intelligent Systems | Germany | 118,408 | 119 |
| 89 | 3 | | Wolfram Burgard<br>University of Freiburg | Germany | 59,891 | 99 |
| 93 | 4 | | Hans-Peter Seidel<br>Max Planck Institute for Informatics | Germany | 38,433 | 99 |
| 95 | 5 | | Klaus-Robert Muller<br>Technical University of Berlin | Germany | 53,717 | 98 |
| 136 | 6 | | Bernt Schiele<br>Max Planck Institute for Informatics | Germany | 31,292 | 92 |
| 150 | 7 | | Hermann Ney<br>RWTH Aachen University | Germany | 47,161 | 90 |
| 157 | 8 | | Hans-Peter Kriegel<br>Ludwig Maximilian University of Munich | Germany | 54,358 | 89 |
| 171 | 9 | | Burkhard Rost<br>Technical University of Munich | Germany | 36,775 | 88 |

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# CSRankings: Computer Science Rankings

CSRankings is a metrics-based ranking of top computer science institutions around the world. **Click on a triangle** (▶) to expand areas or institutions. **Click on a name** to go to a faculty member's home page. **Click on a pie** (the ◕ after a name or institution) to see their publication profile as a pie chart. **Click on a Google Scholar icon** (🎓) to see publications, and **click on the raw number of publications** to go to a DBLP entry.

Rank institutions in [the world ▾] by publications from [2007 ▾] to [2018 ▾]

## All Areas [off | on]

### AI [off | on]

- ▶ Artificial intelligence ☐
- ▶ Computer vision ☐
- ▶ Machine learning & data mining ☐
- ▶ Natural language processing ☐
- ▶ The Web & information retrieval ☐

### Systems [off | on]

- ▶ Computer architecture ☐
- ▶ Computer networks ☐
- ▶ Computer security ☐
- ▶ Databases ☐
- ▶ Design automation ☐
- ▶ Embedded & real-time systems ☐
- ▶ High-performance computing ☐
- ▶ Mobile computing ☐
- ▶ Measurement & perf. analysis ☐
- ▶ Operating systems ☐
- ▶ Programming languages ☐
- ▶ Software engineering ☑

### Theory [off | on]

- ▶ Algorithms & complexity ☐
- ▶ Cryptography ☐
- ▶ Logic & verification ☐

| Rank | Institution |
|------|-------------|
| 1 | ▶ University of California - Davis ◕ |
| 2 | ▶ University of British Columbia ◕ |
| 3 | ▶ Carnegie Mellon University ◕ |
| 4 | ▶ University of California - Irvine ◕ |
| 5 | ▶ University of Nebraska ◕ |
| 6 | ▶ National University of Singapore ◕ |
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| 89 | 3 | Wolf... Univ... | | | |
| 93 | 4 | Han... Max... | | | |
| 95 | 5 | Klau... Tech... | | | |
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- ...rsity
- ...llege London
- 11 ► North Carolina State University
- 12 ► University of Washington
- 13 ► University of Southern California
- 14 ► Università della Svizzera italiana
- 15 ► University of Buenos Aires
- 16 ► TU Darmstadt
- 17 ► University of Texas at Dallas
- 18 ► University of Passau

# Pro tip: Do not ignore bibliometrics

Applying for a Greencard

Selecting program committee members

"Sorting" job and grant applications (e.g., ERC)

…

# Pro tip: Do not ignore bibliometrics

Applying for a Greencard

Selecting program committee members

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…

## Pro question:
How often is your DBLP or Google Scholar profile opened during your talk?

# Bibliometrics Psychology

# Yes, but Impact?

See talks by:

# Tradeoffs and Strategies

# #1: Salami vs. All-In-One



vs.

# #1: Salami vs. All-In-One



Antwort an @SvenApel

Think quality over quantity: ever thought about focusing on a single paper but making it Turing Award worthy?
#stopthenumbersgame

Original (Englisch) übersetzen

09:20 - 23. Juni 2016

# #1: Salami vs. AI

# #2: Brilliant Idea vs. Solid Evidence



vs.

TO MEASURE IS TO KNOW
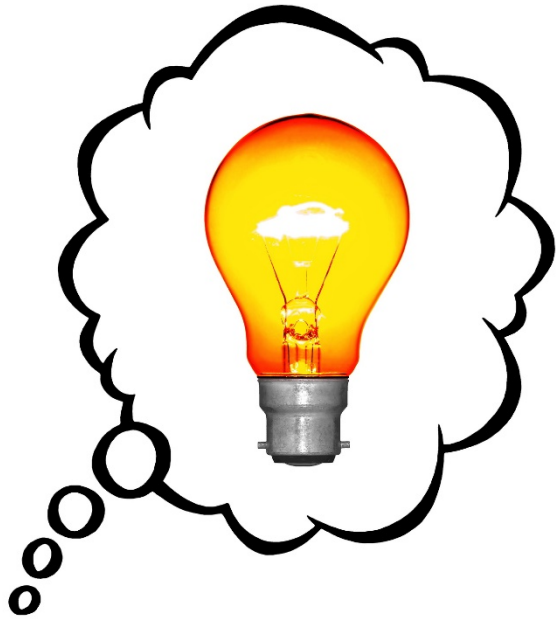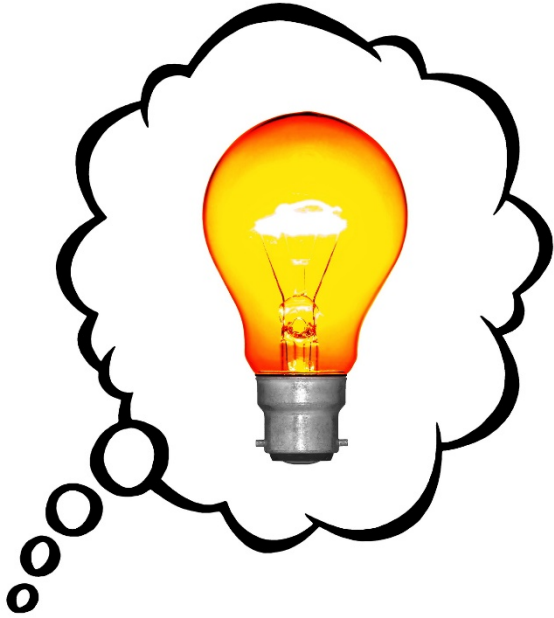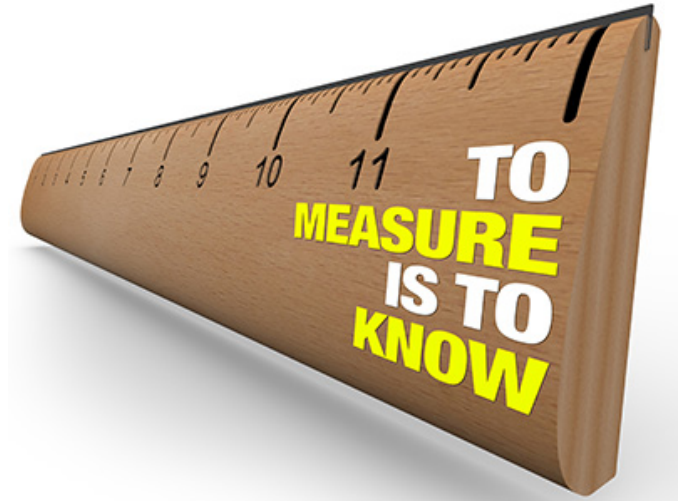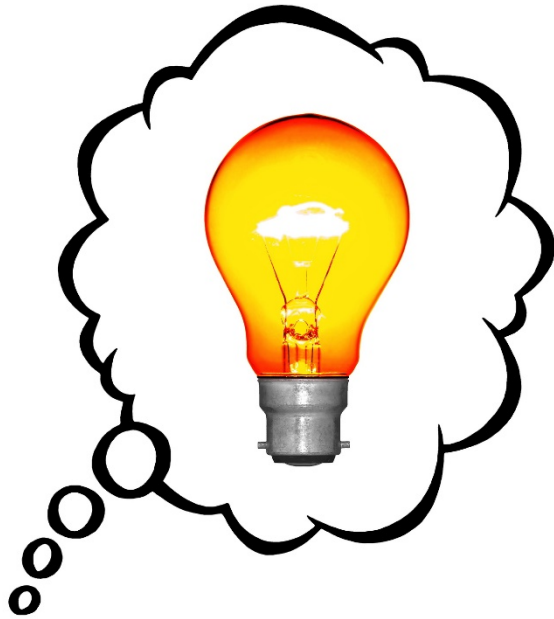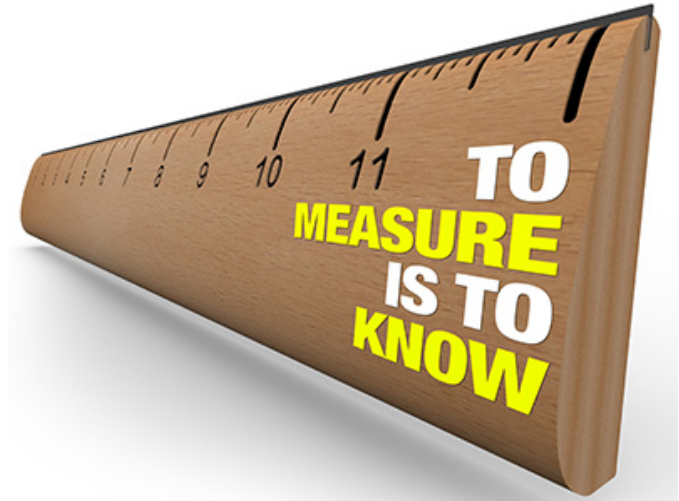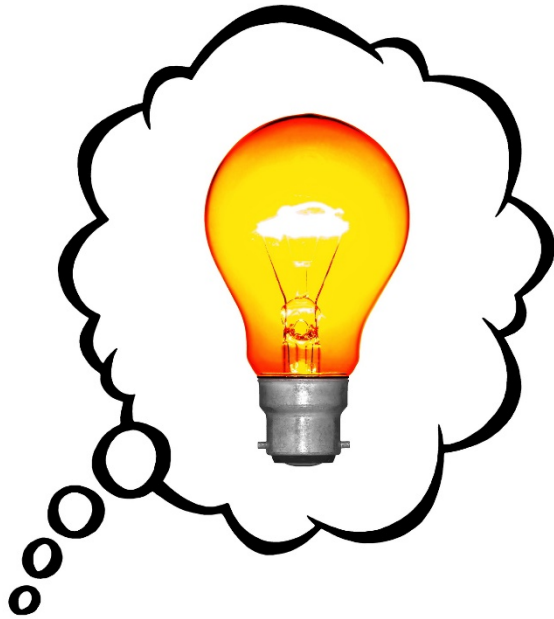
issues: arouse interest, deliver solid evidence, …

# #3: Being Inclusive vs. Exclusive

vs.

# #3: Being Inclusive vs. Exclusive

vs.

issues: competition, join forces, avoid free riding, bibliometrics...

# #3: Being Inclusive vs. Exclusive

"He/she has always many co-authors."
"He/she was never the sole author."
"He/she is a free rider."

...

issues: competition, join forces, avoid free riding, bibliometrics...

# #4: Being a Student vs. Advising Students



vs.

# #4: Being a Student vs. Advising Students



vs.

issues: practice, early feedback, taste of success, ...

# #5: Social Media vs. Traditional Publishing



vs.

# #5: Social Media vs. Traditional Publishing

# Pro tip: try to get into program committees, grant and award panels, editorial boards, …

# Choose your party wisely

# Choose your party wisely

The Free Rider

The Deadliner

The Skeptic (bad cop)

The Enthusiast (good cop)

The Power User

The Headless Chicken

…

# Choose your party wisely

The Free Rider

**The Deadliner**

The Skeptic (bad cop)

The Enthusiast (good cop)

The Power User

The Headless Chicken

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The Enthusiast (good cop)

The Power User

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…

**Pro tip:** keep submitting to the best venues

# Author Order (or Reise nach Jerusalem / Musical Chairs)

Alphabetical

By contribution

By seniority

By location

First come, first serve

…

# Author Order (or Reise nach Jerusalem / Musical Chairs)

Alphabetical

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Different roles → different preferences

# Author Order (or Reise nach Jerusalem / Musical Chairs)

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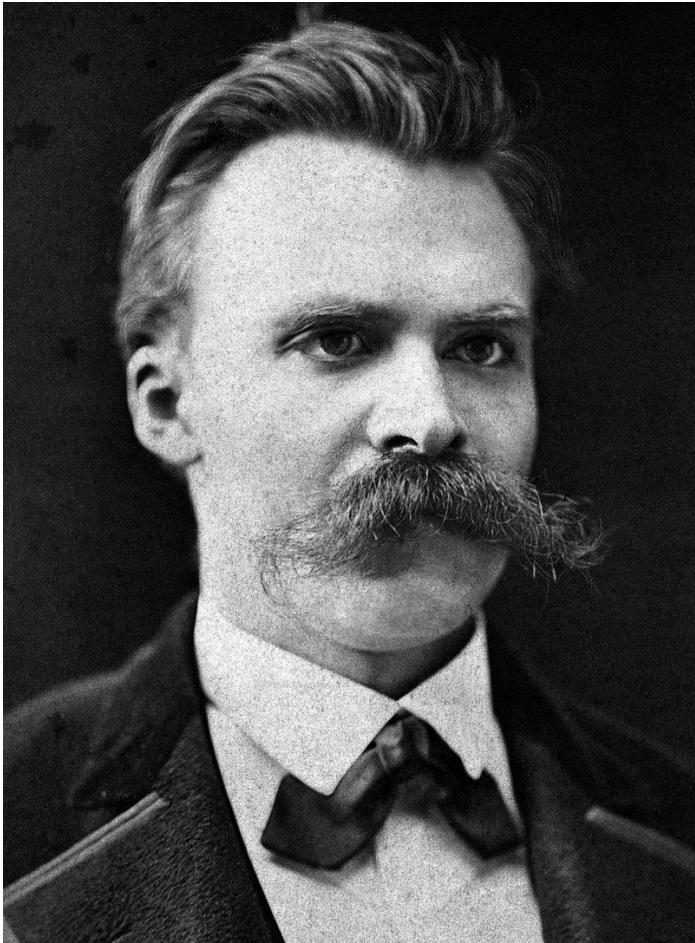
First come, first serve

…

Different roles → different preferences

Pro tip: decide as early as possible!

(Double-blind reviewing may even worsen the problem!)

# After all, do not forget...



"No winner believes in the accident!"