2018 SoCG PC report

Bettina Speckmann
Csaba D. Tóth

SoCG 2018 PC

Luis Barba	ETH Zurich, Switzerland
Pavle V.M. Blagojevic	Freie Universität Berlin, Germany
Karl Bringmann	Max-Planck-Institut für Informatik, Germany
Siu-Wing Cheng	Hong Kong Univ. of Science and Technology, China
Khaled Elbassioni	Masdar Institute, United Arab Emirates
Jeff Erickson	University of Illinois at Urbana-Champaign, USA
Fabrizio Frati	Roma Tre University, Italy
Jie Gao	Stony Brook University, USA
Andreas Holmsen	KAIST, Republic of South Korea
Minghui Jiang	Utah State University, USA
Michael Kerber	TU Graz, Austria
Elizabeth Munch	Michigan State University, USA
David M. Mount	University of Maryland, USA
Steve Oudot	INRIA Saclay, France
Dömötör Pálvölgyi	Eötvös Loránd University, Hungary
Benjamin Raichel	University of Texas at Dallas, USA
Orit E. Raz	Institute for Advanced Study, USA
Bettina Speckmann	TU Eindhoven, The Netherlands
Andrew Suk	University of Chicago, USA
Csaba D. Tóth	Cal State Northridge, USA
Shira Zerbib	University of Michigan, USA

The graph …
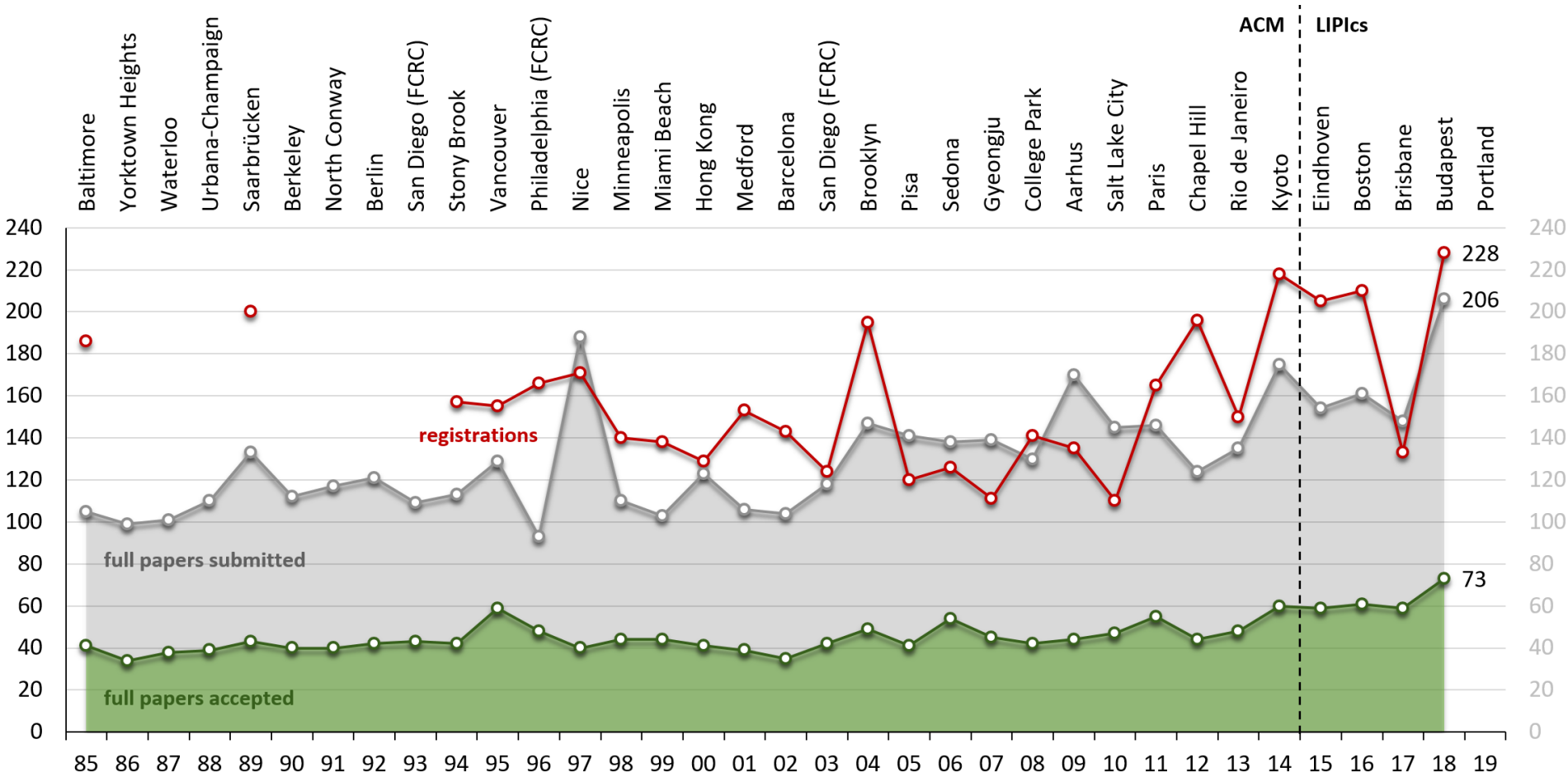
240   abstracts submitted
206   papers submitted
73   papers accepted

Paper types

Mathematical Foundations   Algorithmic Complexity
Experimental & Implementation   Application

Detailed evaluation criteria for each

Authors could choose paper type(s) at the time of submission
Reviewers were asked to evaluate
- whether the paper was labeled with the right paper type
- how the paper meets the evaluation criteria

Evaluation   Paper types are very useful
- ensure that each paper is evaluated on its own merits
- focus both reviews and PC discussion

Improvement   make purpose of paper type discussion even more
                clear to (sub)reviewers

Paper types

Mathematical Foundations

Algorithmic Complexity

Experimental & Implementation

Applications
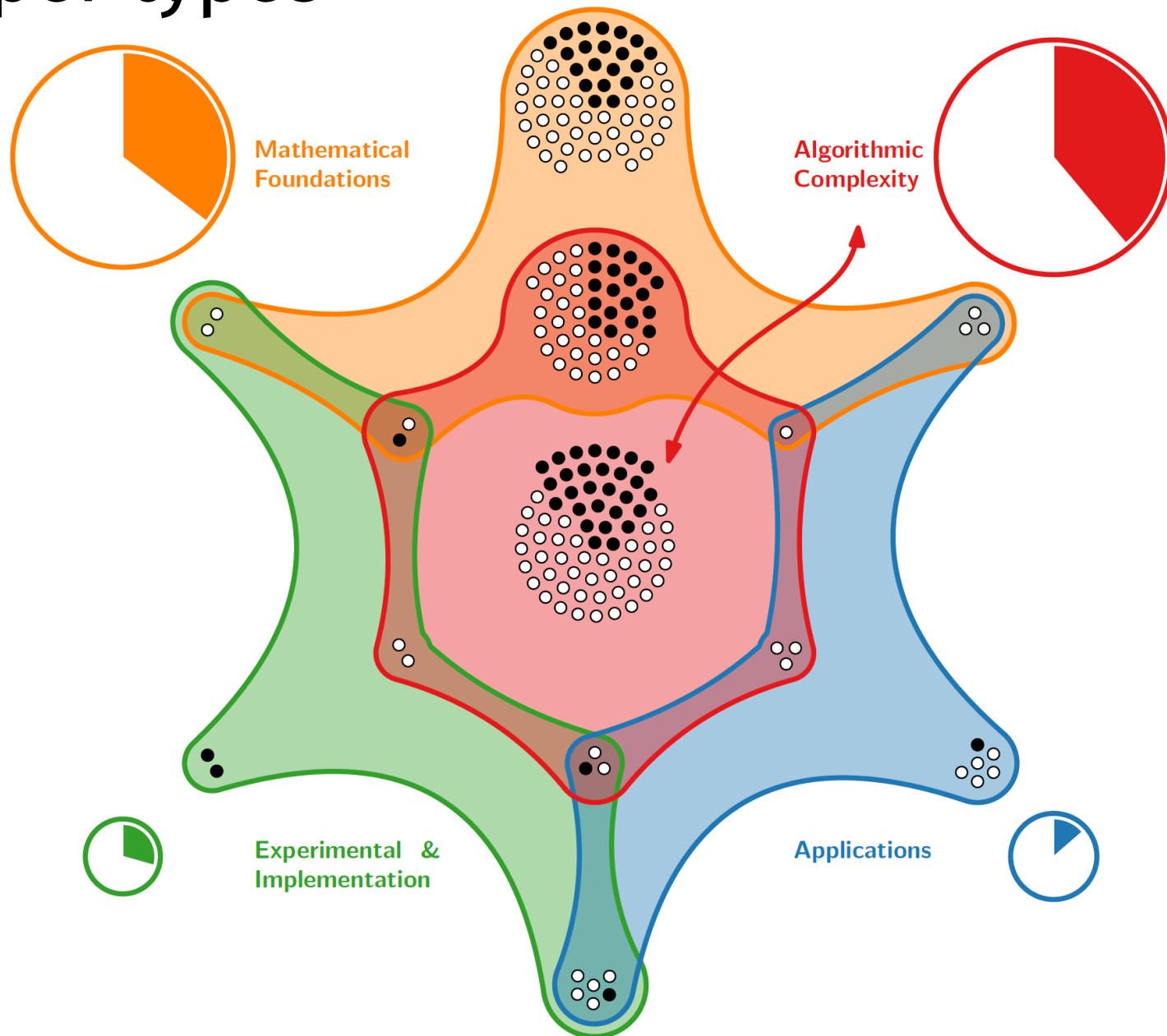
SoCG 2018 review procedures

Submission format

12 pages + references + appendices

"pure" LIPIcs format

complete proofs

if accepted, full version publicly available

Rationale

12 pages encourage concise exposition
remember: proceedings = extended abstracts

conference reviews give (some form of) correctness guarantee for those 12 pages
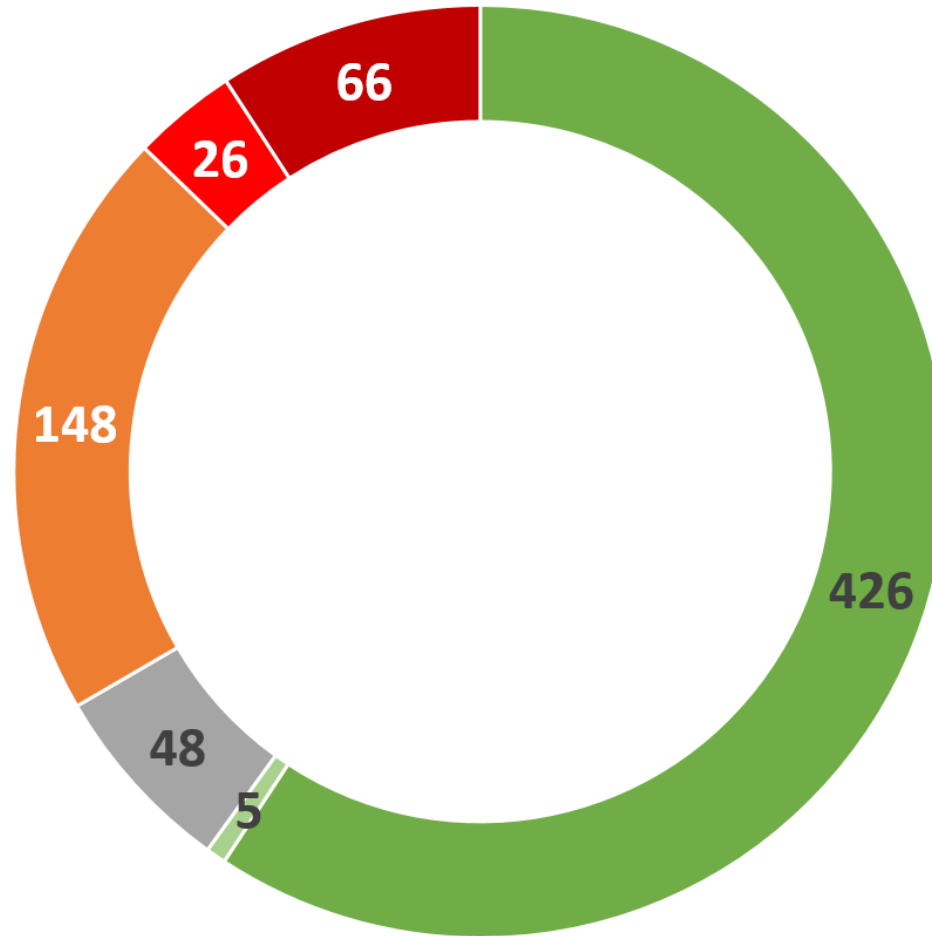
technical details in full public version

Evaluation

12 pages worked well for reviews, generally good exposition, helped the PC

66 accepted papers are available as full public versions (arxiv & Inria)

Improvements

also require any code to be publicly available

Subreviewers

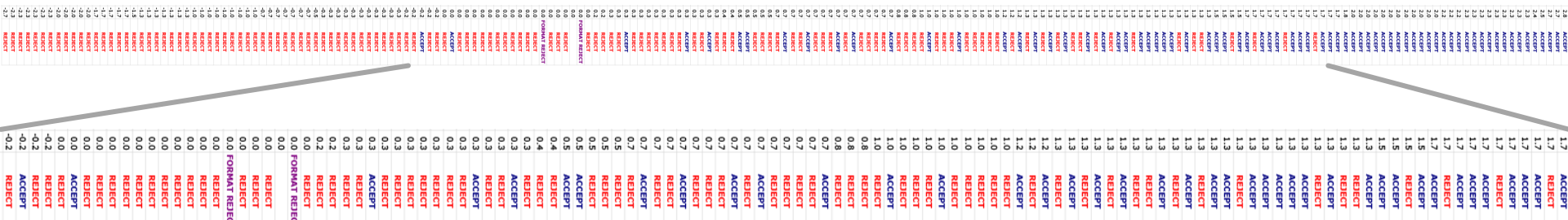|		
■ review complete	■ accepted	■ deleted
■ denied	■ submission accessed	■ submission not accessed

Reviews: Score calibration

Three or more reviews received on each submission

Scores vary greatly and generally cannot be taken as a basis for decisions, just as a guideline for discussion

There was no numerical cut-off for acceptance/rejection

PC co-chairs asked for additional opinions if necessary and summarized the factual basis for each decision to ensure uniform standards

Decisions on the last batch of 22 papers by debating the strengths and weaknesses in detail (co-chairs in Los Angeles, CA), approved by PC

Reviews: uniform high quality

Purpose of reviews

- concise summary of paper for PC members
  (who may have not read the paper)
  - what are the problems considered?
  - why is the paper relevant or irrelevant?
  - what are the main results?
- evaluation supported by facts and according to criteria
- constructive and professional feedback to the authors

There is no way to do all of this in one paragraph!

Short reviews are unconvincing (and hence useless)
even if they are spot on. They generate extra work for the PC.

What can we as a community do to foster higher review standards?

And then there is LIPIcs ...