

ICS Business Meeting

Phoenix, 2018

Meeting agenda

- Announcements (Cole Smith)
- ICS Prize (Cole Smith)
- ICS Student Paper Prize (Anna Nagurney)
- Officer nominations (Mary Fenelon)
- Treasurer's report (Mary Fenelon)
- IJOC report (David Woodruff and Alice Smith)
- INFORMS Phoenix cluster report (Simgе Küçükyavuz)
- 2019 ICS Conference report (Jim Ostrowski)
- Possible new award discussion (Cole Smith)

Announcements

Celebrate the 2018 winners of the COIN-OR Cup competition!

When? 7:30 pm until late, starting right after this meeting

Rose and Crown pub on Heritage Sq., 628 E. Adams Street

Drinks and snacks provided

Diversity

- ▶ Data provided by INFORMS Committee on Diversity, Equity, and Inclusion
- ▶ ICS: 23% women and 77% men, out of those who declared a gender
- ▶ Out of those who responded:
 - ▶ 49% White, Caucasian
 - ▶ 43% Asian
 - ▶ 6% Hispanic
 - ▶ 2% African-American, Black
 - ▶ < 1% Other
- ▶ Please consider filling out your member profile at INFORMS: Helps to supply badly needed data!

ICS Prize

James V. Burke, Frank E. Curtis, Adrian S. Lewis, and Michael L. Overton

for their pioneering work on gradient sampling methods for nonsmooth optimization, as detailed in the papers:

“Approximating Subdifferentials by Random Sampling of Gradients.” *Mathematics of Operations Research*, 27:567-584, 2002.

“A Robust Gradient Sampling Algorithm for Nonsmooth, Nonconvex Optimization.” *SIAM J. Optimization*, 15(3):751-779, 2005.

“A Sequential Quadratic Programming Algorithm for Nonconvex, Nonsmooth Constrained Optimization.” *SIAM J. Optimization*, 22(2):474-500, 2012.

“A BFGS-SQP method for Nonsmooth, Nonconvex, Constrained Optimization and its Evaluation using Relative Minimization Profiles.” *Optimization Methods and Software*, 32(1):148-181, 2017.

“Gradient Sampling Methods for Nonsmooth Optimization.” *arXiv:1804.11003*, 2018.

Andreas Wächter (Chair), Fatma Kilinc-Karzan, Doug Shier

ICS Student Paper Award

Honorable mentions:

Colin P. Gillen

Fortification Against Cascade Propagation Under Uncertainty
University of Pittsburgh

Chris Lourenco

Asymptotically Optimal Exact Solution of Sparse Linear Systems via Left-Looking Roundoff-Error-Free LU Factorization
Texas A&M University

Winner:

Aleksandr M. Kazachkov

V-Polyhedral Disjunctive Cuts
Carnegie Mellon (now a postdoc at Polytechnique Montreal)

Thanks to Board Members

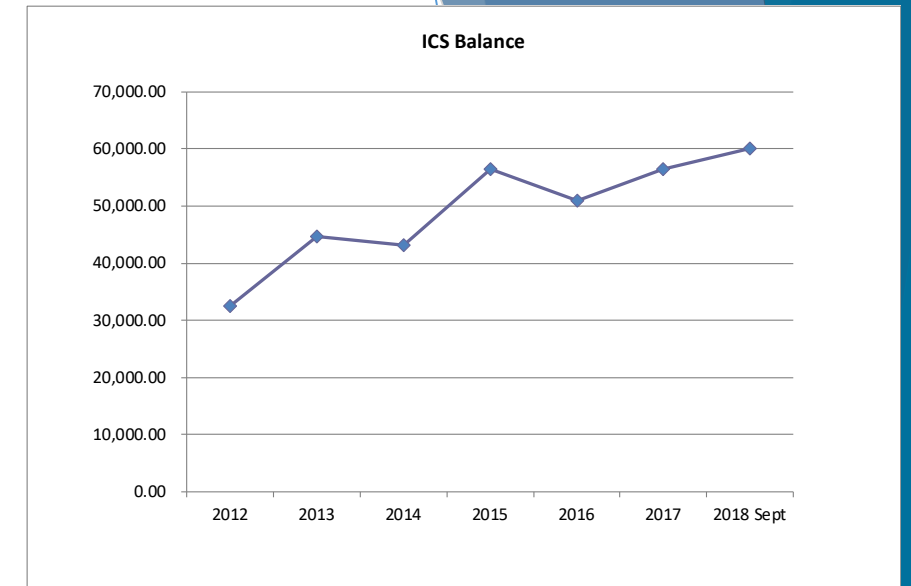
Thanks to Laura Albert and Simgé
Küçükyavuz for their service to ICS!

Nominations

ICS Board of Directors

Two positions for 3-year terms

Treasurer's Report



	2012	2013	2014	2015	2016	2017	2018 Sept
Revenue	4,328.00	6,103.00	5,330.00	5,100.00	4,944.00	4,991.00	5,046.00
Expense	2,936.10	3,669.17	6,724.00	4,400.00	10,469.87	3,443.00	810.00
Meeting Profit	(4,656.30)	9,632.26	0.00	12,603.03	0.00	3,927.00	(681.00)
P/L	(3,264.40)	12,066.09	(1,394.00)	13,303.03	(5,525.87)	5,475.00	3,555.00
Balance	32,567.95	44,634.04	43,240.04	56,543.07	51,017.20	56,492.20	60,047.20

Treasurer's Report

Historic annual revenue

- Dues: \$4000

Historic expenses

- Business meeting: \$2000
- Award expenses: \$1500
- Journal on Computing: \$600

INFORMS Journal on Computing Sponsors

GAMS Development Corporation

Gurobi Optimization

INFORMS Computing Society

Data and status

- Review times are too long but coming down.
 - Days to first decision (net of desk rejects): 2017 was 149, and 2018 is 104 from latest report (but Q3 report is 144)
- The impact factor (for what that is worth) is going up: In 2017 it is 1.392.
- Submission numbers are stable
- Acceptance rate is about 38%
- Longer report at the ICS Meeting in January

Happenings at INFORMS JOC

Area definition - one area was split into two and one area was discontinued. All areas have been tasked with reviewing their name and description for modifications for clarification and updating.

Leadership team - all area editors have been secured. Ongoing process to firm up the teams of associate editors for each area which should be complete soon.

Information sharing - increased reporting of statistics and other items of note regarding the journal. At least annually and preferably semi-annually.

Happenings at INFORMS JOC

Periodic meetings - video meetings with area editors quarterly (three a year plus the in person meeting at the INFORMS Annual Conference). Exchange issues, best practices, news, ideas, etc.

Review time - recently was among the longer of the INFORMS journals. Encouragement of managing the process with the reviewers and the expectation that all editors will give their IJOC work a priority so that papers are not languishing because of editorial inattention. Also, better distribution of papers among the areas will help address this issue.

Web site - this can be awkward to find and navigate. Work with INFORMS staff to improve.

Ideas at INFORMS JOC

Special issues - a judicious number of special issues can encourage interest and stimulate submission of high quality papers.

Questions - how to publicize that we wish to receive proposals for special issues? What topics would generate the most interest and value for readers of *IJOC*? Should we reach out to out to anyone or any group specifically to develop a special issue? Who should evaluate special issue proposals - area editors, all editors, special committee?

Branding our papers more explicitly - require all paper submissions (and published papers) include a paragraph which explains how and why their paper is a good fit for *IJOC*.

Amplification - *IJOC*'s distinction needs to be sharpened to bring an improved profile to our journal. It will also help facilitate paper submissions which truly meet the scope and mission of *IJOC*.

Questions - title of this paragraph? Relation to computation?

Ideas at INFORMS JOC

Recognition - best paper(s) awards? Superior reviewing awards. Most cited paper award(s)? The purpose to is recognize outstanding authors and reviewers and to publicize deserving papers and people.

Questions - how to identify and implement a well defined set of awards? Should we seek any funding for these awards? If so, how?

Page limits - should we consider this for submitted papers? How long is too long to be sent out for review?

2018 Computing Society Cluster

- Chaired by Simge Küçükyavuz
- 19 sessions, 77 talks (Track 71)
- Topics include computational aspects of:
 - Stochastic/Nonconvex/Discrete/Network/Geospatial Optimization (3 joint with Opt Society)
 - Decision diagrams
 - Statistical Learning
 - Modeling Languages
 - Transportation
- Student Paper Prize Award Session (TB71, 106C West)



Bar

Hotel

Conference
Center

Conference Information

- ▶ We have around 110 talks. I will still accept late abstract submissions.
- ▶ A special session and plenary in honor of Harvey Greenberg
- ▶ We have great plenary speakers:
 - ▶ Fred Murphy, Temple University (emeritus)
 - ▶ Sebastian Pokutta, Georgia Tech
 - ▶ Matthias Koeppe, UC Davis
 - ▶ Yonghong Chen, MISO
 - ▶ Gina Tourassi, Oak Ridge National Laboratory



New Award Idea

- ▶ Existing awards include
 - ▶ Two annual awards (Student Paper Award + ICS prize)
 - ▶ Harvey Greenberg Service Award, given in odd years
- ▶ Proposal from a donor: he matches donations up to \$15k, aim for \$30k total, endow a \$1k award for innovative application
 - ▶ Name it also after Harvey Greenberg