Minutes of the ICS Business meeting: Monday, 14 Nov, Nashville TN

meeting called to order at 18:30 after some social time.

ICS Prize (agenda)
ICS Student Paper Prize (agenda)

Sec/Treas Steve Dirkse reported on the financials (looking good) and the membership (looking good). See agenda for his report. Steve shared his view that the current financial picture indicated no increase in the dues rate was warranted. The positive financials prompted a suggestion by JP Watson w/ support from Bruce Golden that the extra money be used for a good cause, like student scholarships for the ICS meeting.

David Woodruff reported on JoC. There are some major changes considered: be prepared for discussion of these in Austin, and see the agenda for his report.

Ned Dimitrov reported on progress organizing ICS 2017 in Austin. See agenda for his report.

Bill Hart reported on COIN-OR. He highlighted the recent news that Pyomo has been recognized by inclusion on the R&D 100 list. See this link for a video about Pyomo that features several ICS members on the Pyomo team.

The outgoing officers were recognized: Directors John Chinneck and Sam Burer. Nominations were taken from the floor for new Directors:

Hande Benson, Jim Ostrowski, Miles Lubin, Karen Ardaal

Nominations will remain open for 2-3 weeks after the meeting!!

Dick Barr requested nominations for the Greenberg Award. Nominations are due 15 Dec so the award can be presented in Austin. See the agenda for full details.

Matt Saltzman gave the President's Report: see the agenda for details. Matt's suggestion that SIGs should be formed "bottom-up" (i.e. like-minded groups of people with special interests could form and choose their own names) was met with approval by an informal show of hands.

The meeting was adjourned, *sans human pyramid,* at 19:11.

Steve Dirkse, ICS Secretary/Treasurer

INFORMS Computing Society Business Meeting 2016

Agenda

- ICS and Student Prizes Nick Sahinidis and Hande Benson)
- Financial Report (Steve Dirkse)
- Nashville Cluster (Cole Smith)
- Austin Meeting (Ned Dimitrov)
- Journal on Computing (Dave Woodruff)
- COIN-OR Report (Bill Hart)
- ICS Board Nominations
- Greenberg Prize Nominations (Dick Barr)
- Chair's (Brief) Remarks (Matt Saltzman)

ICS Prize

The ICS 2016 Prize is awarded to Iain Dunning, Joey Huchette, and Miles Lubin for their creation and development of the JuMP open-source modeling language for mathematical programming, as detailed in the following two papers:

- Miles Lubin and Iain Dunning, "Computing in operations research using Julia," INFORMS Journal on Computing 27.2 (2015): 238-248.
- Iain Dunning, Joey Huchette, and Miles Lubin, "JuMP: A modeling language for mathematical optimization," to appear in

ICS Student Paper Prize

The 2016 INFORMS Computing Society Student Paper Award Winner is Georgina Hall, Princeton University, for the paper,

- "DC Decomposition of Nonconvex Polynomials with Algebraic Techniques."

Advisor: Amir Ali Ahmadi

ICS Student Paper Prize

- Runner-up: Hadi Charkhgard, University of Newcastle
- Runner-up: Terrence Mak, Australian National University
- Special Recognition: Iain Dunning, Swati Gupta, John Silberholz, MIT

Reports

- Financial Report (Steve Dirkse)
- Nashville Cluster (Cole Smith)
- Austin Meeting (Ned Dimitrov)
- Journal on Computing (Dave Woodruff)
- COIN-OR Report (Bill Hart)
-

Board of Directors

- Two nominations needed (two, replacing John Chinneck and Sam Burer)
- Current officers and volunteers: Matt Saltzman, Cole Smith, Steve Dirkse, Simge Kucukyavuz, Laura Albert, Shabbir Ahmed, Erick Moreno-Centeno, Rob Dell, Yongpei Guan, Ojas Parekh

Harvey J. Greenberg Award for Service

Call for Nominations

- Given in recognition of their impact on the INFORMS Computing Society
- Is a "lifetime achievement" award, given every two years
- There must be achievement as well as service

Criteria:

- Member of ICS for five years.
- Major contributor to ICS and its objectives.
- Not a previous recipient of this award.

Call for Nominations

Members Encouraged to Nominate a Candidate

- The Service Award Committee invites ICS members to nominate a candidate.
- Each nomination must include:
  - A letter presenting the case for the nominee
  - Endorsements by three ICS members
- Only one endorsement per ICS member

How to Nominate

- Send nominations to barr@smu.edu
- Deadline: December 15

- Winner will be announced at the upcoming 15th ICS Conference in Austin on January 15, 2017
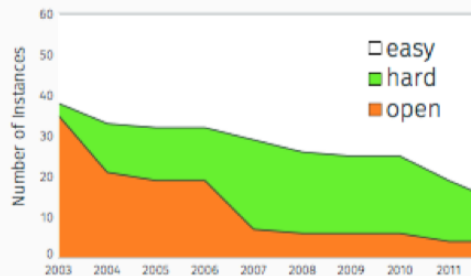
*Since 1992, MIPLIB has been
a key driver for computational progress
in mixed integer programming.*

---

*"Shape the Future of
Mixed Integer Programming!"*

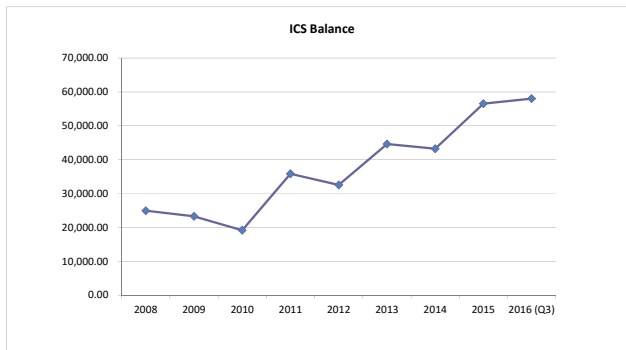Go to miplibsubmissions.zib.de to submit your instances to the

6th Mixed Integer Programming Library

Deadline: Februar 28, 2017

An initiative by *Arizona State University, COIN-OR, CPLEX, FICO, Gurobi,
MIPCL, MOSEK, NuOPT, SAS, and Zuse Institute Berlin.*

ICS Treasurer's Report
Steve Dirkse, GAMS Development Corp.

Balance is the highest ever!

Financials: 2015-16

	2009	2010	2011	2012	2013	2014	2015	2016 (Q3)
Revenue	2,977.15	2,466.73	3,580.00	4,328.00	6,103.00	5,330.00	5,100.00	3,895.00
Expense	7,154.01	3,650.10	4,540.82	2,936.10	3,669.17	6,724.00	4,400.00	2,407.24
Meeting Profit	2,523.61	(2,925.66)	17,618.33	(4,656.30)	9,632.26	0.00	12,603.03	0.00
P/L	(1,653.25)	(4,109.03)	16,657.51	(3,264.40)	12,066.09	(1,394.00)	13,303.03	1,487.76
Balance	23,283.87	19,174.84	35,832.35	32,567.95	44,634.04	43,240.04	56,543.07	58,030.83

- ▶ Other revenue mainly from dues
  - ▶ 2014: $5000
  - ▶ 2015: $4765
  - ▶ 2015q3: $4545

- ▶ Main annual expenses (2015, 2016q3):
  - ▶ business meeting: $2000, $2000
  - ▶ award expenses: $1900, $1900
  - ▶ Journal on Computing: $550, $550

Membership Trend

ICS Membership

Membership

	2011	2012-2016	Opt. Society (2013-16)
Regular	$8	$10	$10
Student/Retired	$1	$5	$10

The increase in membership was due primarily to student memberships:

- 2014: 193 student, 421 regular
- 2015: 612 student, 445 regular

INFORMS Journal on Computing Sponsors

GAMS Development Corporation
http://www.gams.com

Gurobi Optimization
http://www.gurobi.com

INFORMS Computing Society
http://computing.society.informs.org

IJOC Initiatives

- Data with the paper is working!!

- I think we should consider major changes to the journal. Please attend the ICS Meeting in Austin to talk about it. One opportunity:

  SUNDAY, JANUARY 15TH

  16:00-17:30 Session 6G: New Developments at the Informs Journal on Computing

Q1-3 Original Submissions : Accepts

	2009	2010	2011	2012	2013	2014	2015	2016
Q1-3 Submissions	140	134	150	127	180	196	173	210
Q1-3 Accepts	26	47	37	37	31	33	42	40

Full-Year Original Submissions : Accepts

	2009	2010	2011	2012	2013	2014	2015
Submissions	197	175	199	178	250	250	233
Accepts	37	57	45	44	46	42	54

Mean Time to First Decision

	IJOC
2010	136.8
2011	99.6
2012	101.4
2013	86.8
2014	104.2
2015	128.9
2016 Q1-3	132.8

Overall Accept Rate

	IJOC
2010	30.8%
2011	26.8%
2012	21.9%
2013	20.3%
2014	18.3%
2015	25.1%
2016 Q1-3	21.9%

Issue Backlog

	IJOC
2010	13.53
2011	14.64
2012	16.00
2013	8.13
2014	5.90
2015	6.82
2016 Q1-3	5.88

Pages Published in Issues

	IJOC
2010	672
2011	672
2012	704
2013	808
2014	924
2015	818
2016 Q1-3	786

Q1-3 Usage

	IJOC
2014 Q1-3	15622
2015 Q1-3	17194
2016 Q1-3	20119

Impact Factor vs Aggregate Impact Factor

	2009	2010	2011	2012	2013	2014	2015
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS - SCIE	1.649	1.624	1.742	1.812	1.926	1.886	2.056
OPERATIONS RESEARCH & MANAGEMENT SCIENCE - SCIE	1.519	1.482	1.417	1.481	1.532	1.721	1.863
IJOC Impact Factor	1.318	1.172	1.076	1.370	1.120	1.077	1.246

2017 INFORMS Computing Society Conference

HEALTHCARE ANALYTICS

January 15–17, 2017 • Austin, TX

You are invited to Austin to attend the 15th INFORMS Computing Society (ICS) to learn and share your expertise and experiences. The ICS addresses the interface of OR and computing. Since their earliest days, OR and computing have been tightly linked. The practice of OR depends heavily on the availability of software and systems capable of solving industrial-scale problems; computing is the heart of OR in application. ICS is INFORMS' leading edge for computation and technology. Major ICS interests are algorithms and software for modeling, optimization, and simulation. ICS is also interested in the leading edge of computing and how it affects OR. The theme of the 15th ICS Conference is Healthcare Analytics.

Full program now online   About 200 presentations

Days: next day ↦   all days ⇄

View: with abstracts   session overview

7:00					
7:30		07:00-08:00 Breakfast			
8:00		08:00-08:30 Opening Remarks			
8:30	08:30-09:00 A scalable bounding method for stochastic programming Burhaneddin Sandikci, Osman Ozaltin	08:30-09:00 Length of Stay Outlier Management via Mathematical Modelling and Cluster Analysis Rema Padman, Daniel Gartner	08:30-08:52 Characterizing cohesive sub groups in social networks Sergiy Butenko, Olinick Eli	08:30-09:00 Deterministic Approximation Algorithm For Population-Scale Personal Dietary Management Pedro Hespanhol, Anil Aswani	08:30-09:00 Dynamic Scheduling of Home Health Care Patients Andre Augusto Cire, Adam Diamant	08:30-09:00 Integer programming for the optimal design of virtual backbones Austin Buchanan
9:00	09:00-09:30 Scenario Set Partition Dual Bounds for Multistage Stochastic Programming: A Hierarchy of Bounds and a Partition Sampling Natashia Boland, Ilke Bakir, Brian Dandurand, Alan Erera	09:00-09:30 Physical Activity Pattern Clustering of Physically Inactive Women From The mPED Trial M. Zhou, Y. Fukuoka, E. Vittinghoff, W. Haskell, K. Goldberg, A. Aswani	08:52-09:14 Polynomial Time Instance of the Maximum Weighted Co-2-Plex Problem Cynthia Wood, Ilya Hicks / 09:14-09:37 Least Cost Influence Maximization on Trees and Cycles Zhang Rui, S Raghavan	09:00-09:30 Coordinated Patient Appointment Scheduling for a Multi-station Healthcare Network Dongyang Wang, Kumar Kumar, Douglas Morrice	09:00-09:30 A new exact optimization approach to the kidney exchange problem using a novel network L. Carolina Riascos-Alvarez, Roger Z. Ríos-Mercado, Jonathan F. Bard	09:00-09:30 Fine-grained distributed-memory branch-and-bound tree search Lluis Munguia, Geoffrey Oxberry, Deepak Rajan, Yuji Shinano
9:30	09:30-10:00 Adaptive Scenario Partitions for Stochastic Programs Yongjia Song, Wim van Ackooij, Welington de Oliveira	09:30-10:00 Classification in the Presence of Anchoring Bias: A Model and an Application to Breast Cancer Mehmet Ahsen, Mehmet Ayvaci, Srinivasan Raghunathan	09:37-10:00 Hierarchical Cluster Analysis Via Network Flow Duality Eli Olinick, David Matula	09:30-10:00 Online Decision-Making with High-Dimensional Covariates Hamsa Bastani, Mohsen Bayati	09:30-10:00 Optimization via Topological Order in Presence of Acyclic constraints Young Woong Park, Diego Klabjan	09:30-10:00 The Slim Branch and Price method with an application to the Hamiltonian p-median Problem Ahmed Marzouk, Erick Moreno-Centeno, Halit Uster
10:00					

Plenary Speakers

> **Martin Wainwright, University of California at Berkeley**
> Statistics Meets Optimization: Some New Phenomena at the Interface

> **Dimitri Bertsekas, Massachusetts Institute of Technology**
> Proximal and Temporal Difference Methods: A Bridge Between Numerical Convex Analysis and Approximate Dynamic Programming

Tutorial Speakers

> **Shane Henderson, Cornell University**
> Citibike: Continuous, Discrete, and Simulation Optimization

> **Cole Smith, Clemson University**
> Next-generation Network Interdiction Algorithms

> **Andrew Schaefer, Rice University**
> Markov Decision Processes in Healthcare

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REGISTRATION

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REGISTRATION