# CURRICULUM VITAE Endre Boros 

MSIS Department and RUTCOR
Rutgers University
100 Rockafeller Road, office 5180
Piscataway, NJ 08854-8003
Tel : (848) 445-3041
e-mail: Endre.Boros@rutgers.edu

## Education

MS. in Mathematics, Eötvös Loránd University, Budapest, Hungary, 1978;
Thesis title: On Sperner Spaces; advisor: Ferenc Kárteszi
Doctorate (Ph.D.) in Mathematics, Eötvös Loránd University, Budapest, Hungary, 1985;
Thesis title: Surrogate Constraints in 0-1 Programming; advisor: András Prékopa

## Employment

## Permanent positions

MSIS Department and RUTCOR, Rutgers University, New Brunswick, NJ, USA. Distinguished Professor and Director of RUTCOR 2007 - ; Full Professor 1996-2007;

Associate Professor 1989-1996; Post-Doctoral Fellow, 1986-1989.
Department of Operations Research, Computer and Automation Institute, Hungarian Academy of Sciences, Budapest, Hungary. Research Associate 1978-1989. (On leave, 1986-1989.)

## Part-time positions

Lecturer, Eötvös Loránd University, Budapest, Hungary. 1978-1986.
Lecturer, Technical University of Budapest, Hungary. 1976-1978.

## Visiting Professor positions

RIMS, Kyoto University, Kyoto, Japan University of Rome "La Sapienza", Rome, Italy University of Primorska, Koper, Slovenia
RIMS, Kyoto University, Kyoto, Japan
University of Rome "La Sapienza", Rome, Italy
RIMS, Kyoto University, Kyoto, Japan
Kyoto University, Kyoto, Japan
University of Rome "La Sapienza", Rome, Italy
Tokyo University, Tokyo, Japan
UPMC, Sorbonne, Paris, France
University of Rome "La Sapienza", Rome, Italy
Tokyo University, Tokyo, Japan
Tokyo University, Tokyo, Japan
Tokyo University, Tokyo, Japan
University of Rome "La Sapienza", Rome, Italy, Kyoto University, Kyoto, Japan, University of Rome "La Sapienza", Rome, Italy
Eötvös Loránd University, Budapest, Hungary
Kyoto University, Kyoto, Japan,
University of Cologne, Cologne, Germany,
University of Rome "La Sapienza", Rome, Italy
IMAG, CNRS, Grenoble, France,
Tel Aviv University, Tel Aviv, Israel,
Kyoto University, Kyoto, Japan,
Kyoto University, Kyoto, Japan,

January, 2020
June-July, 2018
May, 2018
January, 2017
June-July, 2016
September-December, 2015
January, 2014
June - August, 2013
December 2012
June - July 2012
June - July, 2011
December 2009
December 2008
December 2007
June - August 2007.
April - June 2003.
March 2003.
February 2003.
January - March 1999.
May 1998.
May - July 1997.
September - December 1995.
June 1995.
March 1995.
September 1994.

## Honors

- Awarded a Dagstuhl Seminar on "Enumeration in Data Management", May 19-24.2019, co-organized by Benny Kimelfeld (Technion - Haifa, IL), Reinhard Pichler (TU Wien, AT), and Nicole Schweikardt (HU Berlin, DE)
- Foreign Member of the Hungarian Academy of Sciences, elected in May 2016, inducted on June 7, 2017.
- Lorentz Center, Leiden, The Netherlands, Award to co-organize a one-week fully supported workshop, August 2428, 2015
- RIP award to spend 3 weeks at the Mathematical Research Center in Oberwolfach, Germany, July-August 2015.
- BIRS (Banff International Research Station, University of British Columbia, Vancouver) Award to organize a oneweek workshop September 18-25, 2011.
- Homeland Security Best Paper Award at the 2015 Institute of Industrial Engineering Conference and Expo (ISERC 2015)
- Top Cited Article in Discrete Optimization (2007-2011) - DO 5 (2), 2008, pp. 501-529
- RIP Award to spend two weeks at The Mathematical Research Institute of Oberwolfach, Germany, March 2011.
- RIP Award to spend two weeks at The Mathematical Research Institute of Oberwolfach, Germany, March 2010.
- Bright Idea Award in Operations Management sponsored by Stillman School of Business at Seton Hall and the NJPRO Foundation (the public policy research affiliate of NJ Business and Industry Association) in September 2009 selected for: E.Boros, L.Lei, Y.Zhao, H.Zhong: Scheduling vessels and container-yard operations with conflicting objectives.
- Paul Erdös Visiting Professsor, Eötvös Loránd University, Budapest, Hungary, 2003.
- Japan Society for the Promotion of Science Fellowship, Kyoto University, Japan, 1995.
- CNRS Visiting Fellow, Grenoble University, France, 1995.
- J. Farkas Prize of the János Bolyai Mathematical Society, Hungary, 1985.
- Outstanding Young Researcher Award, Computer and Automation Institute, Hungarian Academy of Sciences, 1981.


## Editorship

Editor-in-Chief of Discrete Applied Mathematics (2007- ) and Annals of Operations Research (2007- ).
Associate Editor of the Annals of Mathematics and Artificial Intelligence (1999- ), Computational Management Science (2003-), and Discrete Optimization (2003- ).
Member of the Editorial Boards of Constraints (1995-2005), Journal of Combinatorial Optimization (1995- ). Guest Editor of Computer Vision and Image Understanding Journal, special issue on Inference and Learning of Graphical Models: Theory and Applications in Computer Vision and Image Analysis (2014-15.)

## Refereeing

Algorithmica, European Journal of Operations Research, Journal of the ACM, Journal of Graph Theory, Linear Algebra and Its Applications, Management Science, Mathematics of Operations Research, Mathematical Programming, Operations Research Letters, SIAM Journal on Computing, and Theoretical Computer Science

## Reviewer and/or on site panel member

Austrian Science Fund (2009, 2014, and 2018), London School of Economics (2016-17,2019,2020,2021), the Israel Science Fund (2011), Luxembourg Research Fund (2014), NSF (2010), NSA (2011), MITACS-NCE (200813), NSERC, Canada, (2019, 2020), Canada Research Chair (2011), MacArthur Foundation (2009), German Research Foundation (DFG, 2008), etc.

## Professional Service

Judge for INFORMS Best DM Paper Competition, October 22-25, 2017, Houston.
Chair of the "INFORMS Young Researcher Award" Committee, 2012.
Member of the "INFORMS Young Researcher Award" Committee, 2011.

## Member/Chair of Conference Program Committees:

- ISAIM 2020, January 6-8, 2020. Fort Lauderdale, Florida, USA
- VOCAL 2018, Chair, December 10-12, 2018, Esztergom, Hungary
- WEPA 2018, November 5-8, 2018, Pisa, Italy
- ISAIM 2018, January 3-5, 2018. Fort Lauderdale, Florida, USA
- Boolean Seminar, March 12-16, 2017, Chateau Liblice, Czech Republic
- ICORES 2017, February 23-25, 2017, Porto, Portugal
- VOCAL 2016, Chair, December 12-15, 2016, Esztergom, Hungary
- WEPA 2016, November 21-22, 2016, Clermont-Ferrand, France
- AMNS 2016, May 26-29, 2016, Kathmandu, Nepal
- ICORES 2016, February 23-25, 2016, Rome Italy
- ISAIM 2016, January 4-9, 2016, Fort Lauderdale, Florida, USA
- ICORES 2015, January 10-12, 2015, Lisbon, Portugal
- APMOD 2014, April 9-11, 2014, Warwick, England
- ICORES 2014, March 6-8, 2014, Barcelona, Spain
- ISAIM, January 5-8, 2014, Fort Lauderdale, Florida, USA
- ICORES 2013, February 16-18, 2013, Barcelona, Spain
- ICORES 2012, Vilamoura, Portugal, February 4-6, 2012
- ISAIM, January 6-9, 2012, Fort Lauderdale, Florida, USA
- CMMSE 2011, Almeria, Spain, June 26-29, 2011
- INFORMS 2011 Northeastern Conference, Amherst, May 6-7, 2011


## Organization of conferences, tracks, and sessions:

ISAIM 2020, Ft. Lauderdale, FL, January 6-8, 2020. Co-Organizer of the track on Boolean and Pseudo-Boolean Functions; Member of Program Committee of Conference; http://isaim2020.cs.ou.edu/index.html

Organizer of Dagstuhl Seminar 19211, "Enumeration in Data Management", May 19 -24, 2019, Dagstuhl, Germany (jointly with Benny Kimelfeld, Reinhard Pichler, and Nicole Schweikardt); https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=19211

Program Chair of the 8th VOCAL Optimization Conference: Advanced Algorithms, Esztergom, Hungary, December 10-12, 2018; http://vocal.p-graph.org/index.php/conference-venue

WEPA 2018, Pisa, Italy, November 5-8. Program Committee Member. http://wepa2018.di.unipi.it/
ISAIM 2018, Ft. Lauderdale, FL, January 3-5, 2018. Co-Organizer of the track on Boolean and Pseudo-Boolean Functions; Member of Program Committee of Conference; http://isaim2018.cs.virginia.edu/

Program Chair of the 7th VOCAL Optimization Conference: Advanced Algorithms, Esztergom, Hungary, December 12-15, 2016; http://vocal.p-graph.org/

ISAIM 2016, Ft. Lauderdale, FL, January 4-6, 2016. Co-Organizer of the track on Boolean and Pseudo-Boolean Functions (2 sessions); Member of Program Committee of Conference; http://isaim2016.cs.virginia.edu/

Enumeration Algorithms Using Structure, Lorentz Center, Leiden, The Netherlands, August 24-28, 2015, CoOrganizer; https://www.lorentzcenter.n//lc/web/2015/701/poster.pdf

EURO XXVII, Glasgow, July 12-15, 2015. Organized a session on Boolean and Pseudo-Boolean functions; https://www.euro-online.org/conf/euro27/streams

Summer School on Polyhedral Combinatorics (PoCo 2015), Pittsburgh, July 8-12, 2015. Co-Organizer; http://poco2015.org/

DIMACS Workshop in Honor of Alan Hoffman, New Brunswick, NJ, September 19-20, 2014. Co-Organizer; http://dimacs.rutgers.edu/Workshops/Hoffman/

SIOPT 2014, San Diego, CA, May 19-22, 2014. Organizer of a Mini-Symposium on "New Approaches to Hard Discrete Optimization Problems." http://meetings.siam.org/sess/dsp programsess.cfm?SESSIONCODE=18579

GTD \#67, Rutgers University, April 26, 2014. Co-Organizer of Graph Theory Day \#67; http://dimacs.rutgers.edu/Workshops/GraphTheoryDay/program.html

ISAIM 2014, Ft. Lauderdale, FL, January 5-8, 2014. Co-Organizer of the track on Boolean and Pseudo-Boolean Functions (4 sessions); Member of Program Committee of Conference; https://www.cs.uic.edu/Isaim2014/
$\mathbf{2 n d}^{\text {nd }}$ Rutgers Applied Probability Conference, Piscataway, December 6-7, 2013, Organizing Committee Member.
EURO XXVI/INFORMS Joint International Meeting, Rome, Italy, July 1-4, 2013. Organizer of the stream on Boolean and Pseudo-Boolean Optimization (4 sessions.)

EURO XXV, Vilnius, Lithuania, July 8-11, 2012. Organizer of the stream on Boolean and Psuedo-Boolean Optimization.(4 sessions.)

ISAIM 2012, Ft. Lauderdale, FL, January 2012. Co-Organizer of the track on Boolean and Pseudo-Boolean Functions (4 sessions); Member of Program Committee Conference; https://www.cs.uic.edu/bin/view/Isaim2012/SpecialSessions - Boolean

Workshop on Stochastic Networks (DIMACS/RUTCOR), October 2011. Co-organizer with M. Tortorella, A. Prekopa, and F. Roberts.

CTW 2011, Frascati, Italy, June 14-16, 2011. Organizer (with Marty Golumbic) of the Memorial Sessions dedicated to the memory of Bruno Simeone.

AIRO Winter, La Sapienza - University of Rome, Italy, February 2011. Special session in memory of Bruno Simeone.

EURO XXIV, Lisbon, Portugal, July 2010. Organizer of the stream on Boolean Programming with eight sessions.

ISIAM 2010, Ft. Lauderdale, FL, January 2010. Organizer of the stream on Boolean and Pseudo-Boolean Functions within the $11^{\text {th }}$ International Symposium on Artificial Intelligence and Mathematics (4 sessions.)

EURO XXIII, Bonn, July 2009. Organizer of the Stream on Boolean Programming with six sessions.
DIMACS Workshop on Algorithmic Challenges in Optimization, Game Theory and Computer Science: in Memory of Leo Khachiyan, March 9-10, 2009. Organized workshop and secured funding.

DIMACS/RUTCOR Workshop on Boolean and Pseudo-Boolean Functions in Memory of Peter L. Hammer, January, 2009, organizer and fund raiser.

Colloquium Celebrating Peter L. Hammer, RUTCOR, January 2009.
INFORMS Annual Fall Meeting, Washington, D.C., October 2008. Organized session: Pseudo-Boolean Optimization in Memory of Peter L. Hammer.

INFORMS Annual Fall Meeting, Seattle, November 2007. Organized two sessions: In Memory of Peter L. Hammer and Discrete Optimization in Memory of Peter L. Hammer

EURO XXII, Prague, July 2007. Two Invited Sessions: Everything Looking Boolean I and II (dedicated to the memory of Peter L. Hammer).

Peter L. Hammer Memorial Colloquium, RUTCOR, April 20, 2007
Cluster Chair of the Al-track, INFORMS, Denver, 2004.
Co-Chair of the Conference on Discrete Optimization, Rutgers University, 1999.
Local Chair of the 1998-99 DIMACS Special Year on Large Scale Discrete Optimization.
Cluster Chair of the Al-track, INFORMS, Cincinnati, 1999.
Organizer of the tutorial series Selected Topics in Large Scale Discrete Optimization, Rutgers University, 1999.
Co-Chair of the Mini-Symposium on Boolean and Pseudo-Boolean Functions, Rutgers University, 1998.
Program Co-Chair of the Fifth International Symposium on Artificial Intelligence and Mathematics, Fort Lauderdale, Florida, 1998.

Co-organizer of the Boolean Mini-Workshop, Jerusalem, Israel, 1995.

## Invited Lectures

Plenary Lecture: International Workshop on Combinatorial Optimization and Algorithmic Game Theory, Kyoto, Japan, January 12-13, 2020: "Two-person zero-sum stochastic mean payoff games: a pseudo-polynomial algorithm in case of limited randomness via convex programming" http://imi.kyushu-u.ac.jp/~kamiyama/iwcoagt.html

Keynote Lecture: Taiwanese OR Society Conference, Taipei, November 8, 2019. "Polynomially computable sharp probability bounds" https://orstw2019.conf.tw/site/page.aspx?pid=34\&sid=1306\&lang=cht

INFORMS, Seattle, WA, October 20-23, 2019. Invited talk: "What to learn and what not to learn."
Invited Tutorial: Dagstuhl Seminar 19211, "Enumeration in Data Management", May 19-24, 2019, Dagstuhl, Germany: "Hypergraphs Transversals"; https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=19211

Plenary Lecture (4 hours): AIROYoung - Third Workshop and PhD School, March 26-29, 2019, Rome, Italy: "Partially defined Boolean functions and logical analysis of data: what is ethical machine learning?"; https://workshop.airoyoung.org/

Plenary Lecture: Set Functions in Games and Decision, Linz, Austria, February 5-8, 2019: "What to learn and what not to learn: a mathematical view on ethical learning"; https://www.flll.jku.at/linz2019/program.php

Department of Industrial and Mechanical Engineering, Northeastern University, February 1, 2019: Invited Seminar Talk: "Quadratization of Pseudo-Boolean Functions"

VOCAL 2018, Esztergom, Hungary, December 10-12, 2018: Invited lecture: "Markov decision processes with total effective payoff.

Plenary Lecture: WEPA 2018, University of Pisa, Italy, November 5-8, 2018: "Parallel Hypergraph Dualization".
William and Mary, Department of Mathematics, October 5, 2018. Invited Seminar Talk: "Hypergraph Combinations of Impartial Games."

DIAG, "La Sapienza" University of Rome, Italy, June 26, 2018. Invited Seminar Talk: "Justifiable and ethical learning - a mathematical view."

Invited Short Course: FAMNIT, University of Primorska, Koper, Slovenia, May - June, 2018 "Discerete Optimization"

FAMNIT, University of Primorska, Koper, Slovenia, May 7, 2018. Invited Seminar Talk: "NIM and its generalizations."

ISAIM 2018, Fort Lauderdale, Florida, January 3-6, 2018. Invited Talk: "Quadratizations of symmetric pseudo-Boolean functions: sub-linear bounds on the number of auxiliary variables."

Keynote Lecture: 12th INFORMS Workshop on Data Mining \& Decision Analytics Workshop, October 21, 2017, Houston: "Justifiable and Ethical Learning: A Mathematical View."
XXXII. Conference of the Hungarian Operations Research Society, June 14, 2017. Invited Talk: "Discrete Moment Problems - in Memory of András Prékopa."

Inauguration Lecture: Hungarian Academy of Sciences, June 7, 2017: "Quadratic Binary Optimization and Digital Image Processing."

Rényi Alfréd Institute for Mathematics, Hungarian Academy of Sciences, June 1, 2017. Invited Seminar: "JM hypergraphs."

Plenary Lecture: Boolean Seminar Liblice, Czech Republic, March 12-16, 2017: "Generating maximal irredundant and minimal redundant subfamilies of a hypergraph."

RIMS, Kyoto University, January 5, 2017. Invited Seminar Talk: "Generating maximal irredundant and minimal redundant subfamilies of a hypergraph."

Plenary Lecture: VOCAL 2016, Esztergom, Hungary, December 12-15, 2016: "In Memory of András Prékopa: Discrete Moment Problems."

Plenary Lecture: WEPA 2016, Clermont-Ferrand, France, November 21, 2016: "Generating maximal irredundant and minimal redundant subfamilies of a given hypergraph."

Seoul National University, Seoul, Republic of Korea, October 28, 2016. Invited Seminar Talk: "Quadratization of Nonlinear Binary Optimization Problems"

Keynote Lecture: OUSMI 2016, Rochester, MI, August 9, 2016: "Stone age games: how difficult it can get?"
Plenary Lecture: Kolloquium SATSim 2016, Cologne, Germany, March 18, 2016: "Horn functions and a new minmax theorem."

ISAIM 2016, Fort Lauderdale, Florida, January 3-6, 2016. Invited Talk: "A combinatorial min-max theorem related to Horn minimization."

ISAAC Pre-Workshop, Kyoto, Japan, December 6-7, 2015. Invited Talk: "A combinatorial min-max theorem for the minimization of Horn CNF-s."

Hokkaido University, Graduate School of Information Science and Technololgy, Sapporo, Japan, October 23, 2015. Invited Seminar Talk: "Generating Bodies, Simplices, and Vertices of Polyhedra" https://www-erato.ist.hokudai.ac.jp/html/php/seminar.php?language=en\&day=20151023

Nagoya University, Department of Computer Science and Mathematical Informatics, October 5, 2015. Invited Seminar Talk: "Quadratization of Pseudo-Boolean Functions."

Invited Tutorial: Lorentz Center, Leiden, Netherlands, August 24-28, 2015: "Generation Problems and Vertices of Polyhedra." https://www.lorentzcenter.nl/lc/web/2015/701/poster.pdf

Plenary Lecture: AGTAC 2015, Koper, Slovenia, June 16-19, 2015: "Generation of monotone graph structures." https://conferences.matheo.si/event/6/page/1

Eötvös Loránd University, Institute of Mathematics, Budapest, Hungary, May 19, 2015. Invited Seminar Talk: "Stochastic games with perfect information" (in Hungarian.)

Alfréd Rényi Institute of Mathematics, Budapest, Hungary, May 21, 2015. Invited Seminar: "NIM variations" (in Hugarian.)
"Fejes Toth" Lecture: University of Calgary, Canada, March 27, 2015: "Simplices, Bodies, and Vertices of Polyhedra." https://math.ucalgary.ca/ccdg/node/587

University of Calgary, Canada, March 27, 2015. Invited Seminar, Department of Mathematics: NIM, co-NIM and Ex-co-NIM.

STACS 2015, Munich, March 4-7, 2015. Invited Talk: "Markov Decision Processes and Stochastic Games with Total Effective Payoff"

Plenary Lecture: DA2PL, Paris, November 20-21, 2014: "Learning and indentifying monotone boolean functions" http://www.Igi.ecp.fr/~mousseau/DA2PL-2014/pmwiki.php/Main/InvitedTalks

INFORMS, San Francisco, CA, November 9-12, 2014. Invited talk: "Quadratizations of Pseudo-Boolean Functions."
SIAM Conference on Optimization, May 19-22, 2014. Invited Talk: "Effective Quadratization of Nonlinear Binary Optimization Problems."

Invited Tutorial: Horn Functions, Dagstuhl, Germany, May 11-16, 2014: Horn functions: a combinatorial view https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=14201

RIMS, Kyoto, Japan, January 14, 2014. Invited seminar talk: "Quadratization of nonlinear functions in binary variables"
$2^{\text {nd }}$ Rutgers Applied Probability Conference, December 7, 2013. Invited Talk: "Markov Decision Processes with Total Effective Rewards"

INFORMS NJ Chapter Meeting, October 24, 2013. Invited Talk: "Quadratization of Pseudo-Boolean Functions"
INFORMS, Minneapolis, MN, October 6-10, 2013. Invited talk: "Bounds on the Size of Quadratizations of PseudoBoolean Functions"

IASI, Rome, Italy, June 20, 2013. Invited seminar talk: "Quadratization of Pseudo-Boolean Functions"
DIMAP, Warwick, England, June 8, 2013. Invited seminar talk: "k-Total reward games"
Boolean Seminar Liblice, Czech Republic, April 13-14, 2013. Two invited talks on "Quadratization of pseudoBoolean functions"

Peter L. Hammer Memorial Lecture: Charles University, Czech Republic, April 12, 2013: "Pseudo-Boolean Optimization." http://ktiml.mff.cuni.cz/booleanseminar2013/index.php?page=program

University of Primorska, Slovenia, November 19, 2012. Seminar talk: "Quadratization of Pseudo-Boolean Functions."

GERAD, University of Montreal, November 8, 2012. Seminar talk: "Quadratization of Pseudo-Boolean Functions"
Lehigh University, PA, November 7, 2012. Seminar talk: "Quadratization of Pseudo-Boolean Functions."
Keynote Lecture: ECCV 2012 Workshop on Higher-Order Models and Global Constraints in Computer Vision, Florence Italy, October 13, 2012: "Quadratization of higher degree binary optimization problems". https://sites.google.com/a/ttic.edu/eccv-2012-workshop-hipot/

DIMACS, September 24, 2012. Seminar: "Interdiction problems and total-reward games"
MATCH-UP 2012 - the Second International Workshop on Matching Under Preferences, Budapest, July 2012: Invited talk: On Rank-profiles of Stable Matchings.

UPMC, Sorbonne, Paris, June 2012. Invited lecture: Quadratization of Pseudo-Boolean Functions.
Plenary Lecture: 3-ADM: International Workshop on Three Approaches to Data Mining: Test Theory, Rough Sets and Logical Analysis of Data: Logical Analysis of Data, KAUST, June 8-11, 2012.

CCICADA Research Retreat, March 2012, University of Illinois at Urbana. Invited talk: Optimal Layered Security For Site Protection (Tsvetan Asamov, Emre Yamangil, Endre Boros, Paul Kantor, Fred Roberts).

ISAIM 2012, Ft. Lauderdale, FL, January 2012. Two talks at the 12th International Symposium on Artificial Intelligence and Mathematics: On quadratizations of pseudo-Boolean functions and Hardness results for approximate pure Horn CNF formulae minimization.

Keynote Lecture: The First 3-C Risk Forum \& 2011 International Conference on Engineering and Risk Management (ERM), Fields Institute, Toronto, October 2011: How to mitigate the risk of blowing up and the cost of being too cautious.

London School of Economics, Department of Mathematics, October 2011. Invited talk: Stochastic games.
University College of London, Department of Mathematics, October 2011. Invited talk: Parallel-dualization.
ICALP 2011, Zurich, Switzerland, July 2011. Stochastic mean payoff games: Smoothed analysis and approximation schemes (co-authors: K. Elbassioni, Mahmoud Fouz, V. Gurvich, K. Makino, and Bodo Manthey).

CTW 2011, Frascati, Italy, June 2011. Incompatibility Graphs \& Data Mining.
La Sapienza, University of Rome, June 2011. Seminar: Every stochastic game with perfect information admits a canonical form.

IASI- CNR, Rome, June 2011. Seminar: Quadratization of higher degree pseudo-Boolean functions.
NSF-Sponsored CMMI Research and Innovation Conference, Atlanta, GA, January 2011 (going as PI).
INFORMS Annual Fall Meeting, Austin, TX, November 2010 (Two talks): Robust classification by orthogonalization and Planning for extreme heat events

EURO XXIV, Lisbon, Portugal, July 2010. Essential sets and Horn minimization
IPCO 2010, Lausanne, Switzerland, June 2010. A Pumping Algorithm for Ergodic Stochastic Mean Payoff Games with Perfect Information.

International Workshop on Computer Vision 2010, Salerno, Italy, May 2010. Committee on Discussion Panel: Linear Inverse Systems with Priors.

University of Paris, March 2010. Polynomially computable sharp probability bounds
Workshop in Graph Theory and Combinatorics in Memory of Uri Peled, University of Illinois at Chicago, February 2010. Incompatibility Graphs.
$11^{\text {th }}$ International Symposium on Artificial Intelligence and Mathematics, Ft. Lauderdale, January 2010. Cones of non-negative quadratic pseudo-Boolean functions.

University of Tokyo, Japan, December 2009. Invited seminar: On terminal games with 3 terminals.

International Colloquium on Stochastic Modeling and Optimization dedicated to the $80^{\text {th }}$ birthday of Professor Andras Prekopa, RUTCOR, November 30-December 1, 2009. Polynomially computable sharp probability bounds.

INFORMS Annual Fall Meeting, San Diego, October 2009. Invited talk at Data Mining Workshop: What Can and What Should Not Be Learned from Data.

INFORMS Annual Fall Meeting, San Diego, October 2009. Invited talk: Optimal Sensor Sequencing.

DIMACS/CCICADA Student-organized Seminar Series, October 2009. Sequential decision making for container inspection

EURO XXIII, Bonn, July 2009. (Three talks): Cones of nonnegative quadratic pseudo-Boolean functions and lift-andproject hierarchies. Boolean optimization methods for linear inverse systems with edge-preserving priors. A restricted Boolean consensus method for the transitive closure of a digraph.

ICALP Conference 2009, July 2009, Rhodes, Greece: Invited Talk: A Fast and Simple Parallel Algorithm for Monotone Dualization.

Eotvos Lorand University, Budapest, Hungary, July 2009. Seminar Presentation: Quadratic Programming and Image Enhancement.

Venice, Italy, May 2009. Conference on Graph Cuts.
IASI, Rome, May 2009. Seminar: Polynomially computable shart probability bounds.

ARI Grantees Conference, Washington, April 2009 (talk with Paul Kantor).

Carnegie Mellon University, Pittsburgh, March 2009. Seminar: Polynomially computable bounds for the probability of a union of events.

DIMACS/DyDan Seminar, March 2009. Sensor sequencing and LP.

University of Tokyo, Japan, December 2008. Applications of autarkies and persistencies in quadratic unconstrained binary optimization.

DIMACS/DyDAn Workshop on Mathematical Science Methods to Enhance Nuclear Detection, November 2008. Kantor/Boros group presentation: Optimal sensor sequencing for container inspection.

Bonn Workshop on Combinatorial Optimization, November 2008. Quadratic unconstrained binary optimization and its applications.

INFORMS Annual Fall Meeting, Washington, D.C., October 2008. Organized session: Pseudo-Boolean Optimization in Memory of Peter L. Hammer. Talk: Applications of autarkies and persistencies in quadratic unconstrained binary optimization.

Toronto, Ontario, Fields Seminar, October 7-8, 2008. Quadratic binary optimization and its applications.

Lausanne, Switzerland, De Werra-Liebling Workshop, June 2008. What remains open in vertex generation.
Venice, Italy, Image Workshop, May 27-29, 2008. Preprocessing and probing for image enhancement.

GERAD Workshop, Montreal, Canada, May 5-9, 2008. Lecture series on Partially defined Boolean functions and logical analysis of data (6 hours).

DNDO PI-Workshop, Washington, April 21-22, 2008. Sensor sequencing.
DOD SAT Workshop, Baltimore, MD, March 2008. Persistencies for MAXSAT problems.

University of California, IPAM (Institute for Pure and Applied Mathematics), Workshop on Graph Cuts and Related Discrete or Continuous Optimization Problems, Los Angeles, February 2008. A strongly polynomial preprocessing for quadratic binary optimization.

The Technion, TECHNION MATHEMATICS NET, Haifa, January 2008. The polytope of decision trees with an application for container inspection.

University of Haifa, Expert Workshop on Boolean Functions in Memory of Peter L. Hammer, January 2008. Two talks: Peter L. Hammer and Pseudo-Boolean Optimization and A New Parallel Dualization Algorithm.

University of Tokyo, Japan, December 2007. Invited talk.
INFORMS Annual Fall Meeting, Seattle, November 2007. Two Invited Sessions: In Memory of Peter L. Hammer and Discrete Optimization in Memory of Peter L. Hammer. Two talks: Everything Looks Like Boolean... and Preprocess or Not to Preprocess: That is the Question. (Talk by co-author: Container Vessel Scheduling: Some Solvable Cases.)

McMaster University, Hamilton, Ontario, November 2007. Seminar: Optimizing sensor sequencing.
Queens College, Brooklyn, NY, October 2007. Seminar: Criteria of solvability of bimatrix games based on excluding certain $2 \times 2$ subgames.

EURO XXII, Prague, July 2007. Two Invited Sessions: Everything Looking Boolean I and II (dedicated to the memory of Peter L. Hammer). Two talks: Success of pseudo-Boolean optimization and How to approximate an unknown Boolean function.

## External Grants:

- Slovenian Science Fund, bilateral research project on equitable, strongly equitable and CIS graphs, Co-PI with Martin Milanic, University of Primorska, (2018-19; €3030)
- Slovenian Science Fund, bilateral research project on equitable, strongly equitable and CIS graphs, Co-PI with Martin Milanic, University of Primorska, (2016-17; €3030)
- NSF, RI: Medium: Collaborative Research: Graph Cut Algorithms for Domain-specific Higher Order Priors (with Cornell University), PI (Rutgers portion of budget \$354,980; June 1, 2012 - May 31, 2016)
- NSF, Discrete Moment Problems and Applications, Co-PI with A. Prékopa (\$299,980; August 15, 2009 - July 31, 2014)
- Slovenian Science Fund, bilateral research project on graph classes, Co-PI with Martin Milanic, University of Primorska, (2014-15; €5000)
- NSF, Collaborative Research: Graph Cut Algorithms for Linear Inverse Systems (with Cornell University), PI (Rutgers portion of budget $\$ 348,732$; May 1, 2008 - April 30, 2012)
- ONR, Optimization Problems for Detection Systems, Investigator (\$224,863; November 20, 2006 - January 31, 2010; PI: Fred S. Roberts)
- NSF, ARI-SA: Deceptive Detection Strategies: Optimizing the Value of Sensor Information, Co-PI with P.B. Kantor ( $\$ 159,543$; September 1, 2008 - August 31, 2009)
- NSF, A Decision Logic Approach to the Port-of-Entry Inspection Problem, Investigator (1 summer month); (\$349,999; September 16, 2005 -- August 31, 2006; PI: Fred S. Roberts)
- ONR, Port-of-entry Inspection Models, Investigator (GA support for Liliya Fedzhora); (\$60,000; January 1, 2005 -December 31, 2006; PI: Fred S. Roberts)
- NSF, Identification of Threshold, Regular and Submodular Monotone Systems: Theory and Algorithms, co-PI with V. Gurvich and L. Khachiyan. (\$353,623; December 1, 2001 -- November 30, 2005)
- ONR, Satisfiability and Generalized Inference Problems, co-PI with P.L. Hammer. (~\$1,100,000; October 1, 1996 -September 30, 2003)
- DARPA, A Novel Approach to Information Finding in Networked Environments, co-PI with P.B. Kantor (SCILS) and B. Melamed (SOB). (\$1,056,168; July 1, 1997 -- December 31, 2000)
- NSF, Pseudo-Boolean Function: Representations and Optimization, co-PI with P.L. Hammer. (\$393,031; July 1, 1998 -June 30, 2001)
- NSF, Support for the conference DO'99, co-PI with P.L. Hammer. (\$15,000; May 1, 1999 -- April 30, 2000)
- NSF, US - Belgium Scientific Cooperation Research Grant, co-PI with P.L. Hammer. (\$15,000; February 1, 1995 -January 31, 1998)
- ONR, Logical Analysis of Data, co-PI with P.L. Hammer. (\$415,381.00, Sep 92 -- Dec 96)
- ONR, AASERT, Augmentation Award for Science and Engineering Research Training Award, co-PI with P.L. Hammer.
(\$218,000.00, Jun 93 -- May 96)
- AFOSR, Optimization and Artificial Intelligence, co-PI with P.L. Hammer and F. Roberts. (\$40,000.00, Mar 95 -- Feb 96)
- NATO, Binary Optimization, Cooperative Research Grant, co-PI with Y. Crama and P.L. Hammer. (July 93 -- June 96)
- NSF, SCREMS Equipment Grant, co-PI with P.L. Hammer, A. Kogan, D. Shanno and A. Prékopa, (\$28,000; July 94 -June 95)
- HEFT Equipment Grant, NJ State, co-PI with P.L. Hammer, (\$50,000; June 94 -- June 95)
- ELF Facility Improvements Grant, NJ State, co-PI with P.L. Hammer, (\$40,000; June 94 -- June 96)


## Service (recent) to Rutgers:

Member of Executive Board, DIMACS (1996-)
Vice-Chair of MSIS, 2014-15; 2016-2023.
Director of RUTCOR (January 1, 2007- )
Served on MSIS FCP Committee, S2020.
Served on RBS A\&P Committee, 2017-19, 2020-21.
Served on numerous adhoc A\&P committees in 2014, 2015, 2016, and 2019.
Served on the NB Undergraduate Program Committee, 2019-2022.
Served on the RBS-MGB promotion committee, 2019.
Served on the RBS Library Advisory Board, 2018-
Served on the RBS taskforce on Flexible Teaching Assignments, Summer-Fall, 2014.
Served on the RBS subcommittee on Social Impact, 2015.
Served on IMRT awards panel, 2015, 2016, and 2017.
Served on the RBS Compensation Review Committee, S2016.
Served on and chaired the RBS Research Resources Committee, S2016.
Served on CRC committee, 2016, 2017.
Served on RRC committee, 2017.

## Teaching

## Courses Taught

01:711:453 Theory of Linear Optimization (many times before 2010)
01:711:465 Integer Programming (many times before 2010)
16:711:513 Discrete Optimization (F2010,F2011,F2012)
16:711:517 Computational Methods of Operations Research (S2010,S2011,S2012,S2013)
16:711:553 Theory of Boolean Functions (many times before 2010)
16:711:611 Pseudo-Boolean Functions (many times before 2010)
26:711:651 Linear Programming (S2015)
26:711:653 Discrete Optimization (S2014,S2016,S2017,S2018,S2019,S2020)
33:136:486 Optimization Modeling (F2013,F2014,F2016,F2017,F2018,F2019,F2020)

## Advisor of Post-Doctoral Fellows

Khaled Elbassioni (2003-2005; suppported by NSF grant on Identification of Threshold, Regular and Submodular Monotone Systems: Theory and Algorithms; jointly advised with L. Khachiyan and Vladimir Gurvich)
Eddy Mayoraz (1993-1994; supported by ONR project on Logical Analysis of Data; jointly advised with Peter L. Hammer)

## Advisor of Ph.D students

Peter Mursic (PhD. January 2019) Hypergraph NIM.
Kwon Gi Mun (Ph.D. 2016): Designing energy and water supply chains for prosperity.
Emre Yamangil (Ph.D. 2015): Valid Inequalities for mixed integer linear programming problems.
Aritanan Gruber (Ph.D. 2014: Algorithmic and Complexity Results for Boolean and Pseudo-Boolean Functions
Selim Bora (Ph.D. 2012: Inventory and scheduling problems in supply chain management)
David Neu (Ph.D. 2012: Feature Selection with Applications to Text Classification)
Anupama Reddy (Ph.D. 2009: Combinatorial Pattern-based Survival Analysis with Applications in Biology and Medicine)
Liliya Fedzhora (Ph.D., 2008: A linear programming model for sequential testing)

Gabriel Tavares (Ph.D., 2008: New algorithms for quadratic unconstrained binary optimization (QUBO) with applications in engineering and social sciences)
Konrad Borys (Ph.D., 2006: On Generation of cut conjunctions, minimal $k$-connected spanning subgraphs, minimal connected and spanning subsets and vertices)
Ying Liu (Ph.D., 2003: Combinatorial box partitioning, box packing and their applications)
Pierangela Veneziani (Ph.D., 2002: Combinatorics of Boole's Problem)
Lijie Shi (Ph.D., 2001: Bounds on the Size of Turán Type Families and Data Mining)
Tonguç Ünlüyürt (Ph.D., 1999: Boolean Functions and Diagnosis Problems)
Therese C. Biedl (Ph.D., 1997: Orthogonal Graph Visualization: The Three-Phase Method
With Applications)
Tamás Badics (Ph.D., 1996: Approximation of some Nonlinear Binary Optimization Problems)
Arun Balakrishnan (Ph.D., 1996: Graph Techniques for Sequential Logic Testing)
Ondrej Cepek (Ph.D., 1995: Structural Properties and Minimization of Horn Boolean Functions)

## Advisor of Capstone Pojects for MITA students

Rijul Damodar Bhagat (2018)
Bhavin Parmal (2018)
Adit Purohit (2018)
Priyanka Kurkure (2019)
Saurabh Sankhe (2019)
Gaurav Sahil Rodrigues (2019)
Sagar Srinivas Vasaikar (2019)
Akhsada Iyer (2019)
Hao Li (2020)
Roysten Rajesh Menezes (2020)
Deepak Kumar Shukla (2020)

## Advisor of Capstone Pojects for BAIT/SAS Honors students (2 semester course)

Joel Anthony Pena (2019-2020)
Paulina Portnoy (2019-2020)
Jere Xu (2019-2020)
Sri Narayan (2020-2021)
Muskan Ghei (2020-2021)

## Advisor of Visiting (on their own support) graduate students

Nina Chiarelli (Fall, 2013; from University of Primorska, Slovenia)
Thomas Bellitto (Spring, 2015; from University of Bordeaux, France)

## Advisor of Masters students

Ali Unlu (MS., 2005)
Murat Akarca (MS., 2004)
Anna Oliecka (MS., 1999)
Goksel Goncu (MS., 1997)

## Advisor of REU and other students

Brandon Blakeley (Texas), Amanda Olsen (Georgia) and Robert Rand (Toronto), REU students, DIMACS, Summer 2009
Alex Waldron, REU student, DIMACS, Summer 2006
Kathryn Davidson, REU student, DIMACS, Summer 2005.
Elizabeth Hayden, REU student, DIMACS, Summer 2005.
Daniel P. Macdonald, REU student, DIMACS, Summer 2005.
Craig Bowles, REU student, DIMACS, Summer 2005.
Logan Everett, REU student, DIMACS, Summer 2004.
Daniel Krasner, REU student, DIMACS, Summers of 2002 and 2003.

Ricardo Collado, REU student, DIMACS, Summer 2001.
Jarl Friis, Danish student visitor at RUTCOR and DIMACS, 1999-2000.
Ranjit Gopala, undergraduate, practical training at Prudential Securities, portfolio selection with AMPL, 2 credits, Summer-Fall 1998.
Winnie Yau, REU student, DIMACS, Summer 1998.
Mark Krosky, REU student, DIMACS, Summer 1994.
Joel Sokol, REU student, DIMACS, Summer 1993.

## Member/Chair of Doctoral Thesis Committees outside of Rutgers

Michal Mankowski, KAUST, October 2020. Elisabeth Rodriguez Heck, HEC Liege, Management School, August 2018. Mohammad Mohiuddin Azad, KAUST, April, 2018. Tatiana Romina Hartinger, UP FAMNIT, July 2017. Talha Amin, KAUST, May 2017. Shahid Hussain, KAUST, July, 2016. Alex Fix, Cornell University, December, 2013;
Deborah Kletenik, Polytechnic Institute of NYU, December, 2013; Imran Rauf, University of Saarlandes,
Saarbrucken, Germany, October, 2011; Vincenzo Spinelli, Andrea Raiconi, and Francesco Rinaldi, May 2009;
Miguel F. Anjos, University of Waterloo, 2001.

## PUBLICATIONS LIST Endre Boros

## Books, Chapters and Edited Volumes:

1. Diogo V. Andrade, Endre Boros and Vladimir Gurvich: "On graphs whose maximal cliques and stable sets intersect", in Optimization Problems in Graph Theory (B. Goldengorin, ed.,), pp. 3-66, Springer Verlag, 2018.
2. Chaohui Wang, Nikos Komodakis, Hiroshi Ishikawa, Olga Veksler, Endre Boros, Editors: Inference and Learning of Graphical Models: Theory and Applications in Computer Vision and Image Analysis. Volume 143 of Computer Vision and Image Understanding, 2016.
3. Boros, E., Horn Functions, In: Boolean Functions: Theory, Algorithms, and Applications (Y. Crama and P.L. Hammer, eds.) Cambridge University Press, 2011.
4. E. Boros, Y. Crama, D. de Werra, P. Hansen, F. Maffray, Editors. The Mathematics of Peter L. Hammer (19362006): Graphs, Optimization, and Boolean Models, volume 188 of Annals of Operations Research, Springer, New York, NY, 2011, 427 pages.
5. D. de Werra, E. Boros, A. Hertz, M. Widmer, J. Carlier, editors. In Fifth International Conference on Graphs and Optimization 2006, volume 156 (13) of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, July 2008. Elsevier Science, pp. 2437-2580.
6. E. Boros and V. Gurvich, editors. In Memory of Leonid Khachiyan (1952-2005), volume 156 (11) of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, June 2008. Elsevier Science, pp. 1957-2240.
7. M. Anthony, E. Boros, P.L. Hammer, and A. Kogan, editors. Discrete Mathematics and Data Mining II, volume 156 (6) of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, March 2008. Elsevier Science.
8. M. Anthony, E. Boros, P.L. Hammer, and A. Kogan, editors. Discrete Mathematics and Data Mining II, volume 154 (7) of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford,Shannon, Singapore, Tokyo, May 2006. Elsevier Science.
9. Boros, E., Hammer, P. \& Ibaraki, T. Logical Analysis of Data. In: Encyclopedia of Data Warehousing and Mining, (J. Wang, ed.) Idea Group Reference, (2005), pp. 689-692.
10. M. Anthony, E. Boros, P.L. Hammer, and A. Kogan, editors. Discrete Mathematics and Data Mining, volume 144 (1-2) of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, September 2004. Elsevier Science.
11. E. Boros and P.L. Hammer, editors. Workshop on Discrete Optimization DO'99 - Contributions to Discrete Optimization, volume 124 of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, December 2002. Elsevier Science.
12. E. Boros and P.L. Hammer, editors.Workshop on Discrete Optimization DO'99: Surveys on the State of the Art, volume 123 of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, November 2002. Elsevier Science.
13. E. Boros, John Franco, Eugine Freuder, Martin C. Golumbic, R. Greiner, and E. Mayoraz, editors. Artificial Intelligence and Mathematics IX., volume 26 of Annals of Mathematics and Artificial Intelligence. Baltzer Science Publishers, December 1999.
14. J.V. Franco, G. Gallo, H.K. Büning, E. Speckenmeyer, E. Boros, and P.L. Hammer, editors. The Satisfiability Problem/Boolean Functions, volume 96-97 of Discrete Applied Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, November 1999. Elsevier Science.
15. E. Boros and P.L. Hammer, editors. Boolean Functions, volume 10 of Topics in Discrete Mathematics, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, December 1999. Elsevier Science.
16. E. Boros, J. Franco, E. Freuder, M.C. Golumbic, R. Greiner, and E. Mayoraz, editors. Artificial Intelligence and Mathematics VIII., volume 24 of Annals of Mathematics and Artificial Intelligence. Baltzer Science Publishers, December 1998.
17. E. Boros and R. Greiner, editors. Artificial Intelligence and Mathematics, December 1997. Electronic Proceedings of the Fifth International Symposiums on Artificial Intelligence and Mathematics, Fort Lauderdale, Florida, January 4-6, 1998.
18. E. Boros and M.C. Golumbic, editors. Artificial Intelligence and Mathematics V., volume 17 of Annals of Mathematics and Artificial Intelligence. Baltzer Science Publishers, December 1996.
19. E. Boros, editor. ARIDAM VI and VII, volume 60 of Discrete Applied Mathematics. Elsevier Science, June 1995.

## Publications in Refereed Journals and Conference Proceedings:

1. E. Boros and Z. Füredi. Su un teorema di Karteszi nella geometria combinatoria. Archimede, XXIX(2):71-76, 1977. (in Italian).
2. E. Boros. On the number of subdivisions of the unit square. In A. Hajnal, L. Lovász, and V.T. Sós, editors, Finite and Infinite Sets, number 37 in Colloquia Mathematica Societatis János Bolyai, pages 893--898, Amsterdam New York, 1981. North Holland. Sixth Hungarian Combinatorial Colloquium, Eger, Hungary, July 6-11, 1981.
3. E. Boros, F. Inotay, and L.B. Kovács. A two stage approach for large scale sewer systems design with application to the Lake Balaton resort area. In L. Somlyodi, S. Heródek, and J. Fisher, editors, Eutrophication of Shallow Lakes: Modelling and Management; The Lake Balaton Case Study, number CP-83-S3 in IIASA Collaborative Proceedings Series, pages 315--333, Laxenburg, Austria, 1983. International Institute for Applied Systems Analysis. Veszprém, Hungary, August 29 - September 3, 1982.
4. M. Bíró and E. Boros. Network flows and non-guillotine cutting patterns. European Journal of Operations Research, 16:215--221, 1984.
5. E. Boros and Z. Füredi. The number of triangles covering the center of an n-set. Geometriae Dedicata, 17:69--77, 1984.
6. E. Boros, F. Inotay, and L.B. Kovács. A two stage mathematical model and an interactive program system for sewer system design. Alkalmazott Matematikai Lapok, 10:87-102, 1984. (in Hungarian).
7. E. Boros. Analysis and short-term forecasting of daily electric load. Zeitschrift fur Angewandte Mathematik und Mechanik, 66:T340--T342, 1986.
8. E. Boros. On the complexity of the surrogate dual of 0-1 programming. Zeitschrift fur Operations Research, Serie (A), 30:145--154, 1986.
9. E. Boros, F. Inotay, and L.B. Kovács. A two stage approach for large scale sewer system design with application to the Lake Balaton area. European Journal of Operations Research, 23:169--178, 1986.
10. E. Boros and T. Szönyi. On the sharpness of a theorem of B. Segre. Combinatorica, 6:261-268, 1986.
11. E. Boros. On a linear Diophantine problem for geometrical type sequences. Discrete Mathematics, 66:27--33, 1987.
12. E. Boros, T. Szönyi, and F. Wettl. Sperner extensions of affine spaces. Geometriae Dedicata, 22:163--172, 1987.
13. E. Boros. $\mathrm{PG}\left(2, \mathrm{p}^{\wedge} \mathrm{s}\right), \mathrm{p}>2$ has property $\mathrm{B}(\mathrm{p}+2)$. Ars Combinatoria, 25:111--113, 1988.
14. E. Boros and Z. Füredi. Rectangular dissections of a square. European Journal of Combinatorics, 9:271--280, 1988.
15. E. Boros, Z. Füredi, and J. Kahn. Maximal intersecting families and affine regular polygons in PG(2,q). Journal of Combinatorial Theory (A), 52:1--9, 1989.
16. E. Boros, Z. Füredi, and L.M. Kelly. On representing Sylvester-Gallai designs. Discrete and Computational Geometry, 4:345-348, 1989.
17. E. Boros and P.L. Hammer. On clustering problems with connected optima in euclidean spaces. Discrete Mathematics, 75:81--88, 1989.
18. E. Boros and A. Prékopa. Closed form two-sided bounds for probabilities that at least $r$ or exactly $r$ out of $n$ events occur. Mathematics of Operations Research, 14:317--342, 1989.
19. E. Boros and A. Prékopa. Probabilistic bounds and algorithms for the maximum satisfiability problem. Annals of Operations Research, 21:109--126, 1989.
20. E. Boros and A. Prékopa. Availability analysis and the method of binomial moments to evaluate reliability of power systems. In Resource Planning Under Uncertainty for Electric Power Systems, pages 197--215. Stanford University, 1989.
21. E. Boros and A.Prékopa. Aczel's Inequality: A solutions to a problem posed by A. Lupas (E3222, 1987, 681). American Mathematical Monthly, 97(2), pp. 1562 (1990).
22. E. Boros, Y. Crama, and P.L. Hammer. Upper bounds for quadratic 0-1 maximization. Operations Research Letters, 9:73-79, 1990.
23. E. Boros, Y. Crama, and P.L. Hammer. Polynomial-time inference of all valid implications for Horn and related formulae. Annals of Mathematics and Artificial Intelligence, 1:21--32, 1990.
24. E. Boros. On shift stable hypergraphs. Discrete Mathematics, 87:81--84, 1991.
25. E. Boros, D. Jungnickel, and S.A. Vanstone. The existence of non-trivial hyperfactorizations of K_2n. Combinatorica, 11:9-15, 1991.
26. E. Boros and P.L. Hammer. The max-cut problem and quadratic 0-1 optimization, polyhedral aspects, relaxations and bounds. Annals of Operations Research, 33:151-180, 1991.
27. A. Prékopa and E. Boros. On the existence of a feasible flow in a stochastic transportation network. Operations Research, 39(1):119--130, 1991.
28. E. Boros, P.L. Hammer, T. Ibaraki, and K. Kawakami. Identifying 2-monotonic positive Boolean functions in polynomial time. In W.L. Hsu and R.C.T. Lee, editors, ISA'91 Algorithms, number 557 in Lecture Notes in Computer Science, pages 104--115, Berlin - New York, 1991. Springer-Verlag. 2nd International Symposium on Algorithms, Taipei, Taiwan, 1991.
29. E. Boros, Keh-Wei Lih, and A. Prékopa. The use of binomial moments for bounding network reliability. In F.Hwang, C. Monma, and F.S. Roberts, editors, Reliability of Computer and Communication Networks, number 5 in DIMACS Series in Discrete Mathematics and Theoretical Computer Science, pages 197--212, Providence, Rhode Island, 1991. American Mathematical Society, Association for Computing Machinery.
30. E. Boros, Y. Crama, and P.L. Hammer. Chvatal cuts and odd cycle inequalities in quadratic optimization. SIAM Journal on Discrete Mathematics, 5:163--177, 1992.
31. E. Boros, P.L. Hammer, and R. Shamir. A polynomial algorithm for balancing acyclic data flow graphs. IEEE Transactions on Computers, 41:1380--1385, 1992.
32. E. Boros, Y. Crama, P.L. Hammer, and M. Saks. A complexity index for satisfiability problems. In E. Balas, G. Cornuejols, and R. Kannan, editors, Integer Programming and Combinatorial Optimization, pages 220--226, Pittsburgh, Pennsylvania, 1992. Carnegie Mellon University. 2nd IPCO.
33. E. Boros and P.L. Hammer. Cut-polytopes, Boolean Quadric polytopes and nonnegative quadratic pseudoBoolean functions. Mathematics of Operations Research, 18:245-253, 1993.
34. T. Badics and E. Boros. Implementing a maximum flow algorithm: Experiments with dynamic trees. In D.S. Johnson and C.C. McGeoch, editors, Network Flows and Matching, number 12 in DIMACS Series in Discrete Mathematics and Theoretical Computer Science, pages 43--64, Providence, Rhode Island, 1993. American Mathematical Society, Association for Computing Machinery.
35. E. Boros, Y. Crama, P.L. Hammer, and M. Saks. A complexity index for satisfiability problems. SIAM Journal on Computing, 23:45-49, 1994.
36. E. Boros, P.L. Hammer, M. Hartman, and R. Shamir. Balancing problems in acyclic networks. Discrete Applied Mathematics, 49:77--93, 1994.
37. E. Boros, P.L. Hammer, and J.N. Hooker. Predicting cause-effect relationships from incomplete discrete observations. SIAM Journal on Discrete Mathematics, 7:481-491, 1994.
38. E. Boros, P.L. Hammer, and X. Sun. Recognition of q-Horn formulae in linear time. Discrete Applied Mathematics, 55:1--13, 1994.
39. E. Boros, V. Gurvich, P.L. Hammer, T. Ibaraki, and A. Kogan. Decomposability of partially defined Boolean functions. Discrete Applied Mathematics, 62:51--75, 1995.
40. E. Boros, P.L. Hammer, and J.N. Hooker. Boolean regression. Annals of Operations Research, 58:201--226, 1995.
41. E. Boros, A. Recski, and F. Wettl. Unconstrained multilayer switchbox routing. Annals of Operations Research, 58:481--491, 1995.
42. E. Boros and V. Gurvich. Perfect graphs are kernel solvable. Discrete Mathematics, 159:35--55, 1996.
43. E. Boros and F.K. Hwang. Optimality of nested partitions and its application to cluster analysis. SIAM Journal on Optimization, 6:1153--1162, 1996.
44. E. Boros and R. Meshulam. On the number of flats spanned by a set of points in PG(d,q). Discrete Mathematics, 150:407--409, 1996.
45. E. Boros, V. Gurvich, P.L. Hammer, T. Ibaraki, and A. Kogan. Decompositions of partially defined Boolean functions. In H. Imai, W.F. Wong, and K.F. Loe, editors, Advances in Computing Techniques. World Scientific, Singapore, 1996.
46. E. Boros, T. Ibaraki, and K. Makino. Boolean analysis of incomplete examples. In Rolf Karlsson and Andrzej Lingas, editors, Algorithm Theory -- SWAT'96, number 1097 in Lecture Notes in Computer Science, pages 440--451, Berlin - New York, 1996. Springer Verlag. 5th Scandinavian Workshop on Algorithm Theory, Reykjavik, Iceland, 1996.
47. E. Boros and O. Cepek. Perfect 0,+1,-1 matrices. Discrete Mathematics, 165/166(1-3):81-100, March 1997.
48. A.O.L. Atkin, E. Boros, K. Cechlarova, and U.N. Peled. Powers of circulants in bottleneck algebra. Linear Algebra and Its Applications, 258(1-3):137--148, June 1997.
49. E. Boros, P.L. Hammer, T. Ibaraki, and K. Kawakami. Polynomial time recognition of 2-monotonic positive Boolean functions given by an oracle. SIAM Journal on Computing, 26:93--109, 1997.
50. E. Boros, P.L. Hammer, T. Ibaraki, and A. Kogan. Logical analysis of numerical data. Mathematical Programming, Series B, 79:163--190, August 1997.
51. E. Boros, V. Gurvich, and A. Vasin. Stable families of coalitions and normal hypergraphs Mathematical Social Sciences, 34(2):107--123, October 1997.
52. E. Boros, T. Ibaraki, and K. Makino. Monotone extensions of Boolean data sets. In Ming Li and Akira Maruoka, editors, Proceedings of the 8th International Workshop on Algorithmic Learning Theory (ALT-97), volume 1316 of Lecture Notes in Artificial Intelligence, pages 161--175, Berlin, New York, Tokyo, October 1997. Springer Verlag.
53. E. Boros and V. Gurvich. A corrected version of the Duchet Kernel Conjecture. Discrete Mathematics, 179(1-3):231--233, January 1998. (Selected as Editor's Choice, Discrete Mathematics, 1998.).
54. E. Boros, T. Ibaraki, and K. Makino.Error-free and best-fit extensions of partially defined Boolean functions. Information and Computation, 140(2):254--283, February 1998.
55. T. Badics and E. Boros. Minimization of half-products. Mathematics of Operations Research, 23(3):649--660, August 1998.
56. E. Boros, O. Cepek, and A. Kogan. Horn minimization by iterative decomposition. Annals of Mathematics and Artificial Intelligence, 23(3-4):321--343, September 1998.
57. E. Boros, V. Gurvich, and P.L. Hammer. Dual subimplicants of positive Boolean functions. Optimization Methods and Software, 10:147--156, December 1998.
58. G. Bacsó, E. Boros, V. Gurvich, F. Maffray, and M. Preissmann. On minimal imperfect graphs with circular symmetry. Journal of Graph Theory, 29(4):209--226, December 1998.
59. E. Boros, P.L. Hammer, M. Minoux, and D. Rader. Optimal cell flipping to minimize channel density in VLSI design and pseudo-Boolean optimization. Discrete Applied Mathematics, 90(1-3):69--88, January 1999.
60. E. Boros, T. Ibaraki, and K. Makino. Logical analysis of binary data with missing bits. Artificial Intelligence, 107(2):219--263, February 1999.
61. E. Boros. Maximum renamable Horn sub-CNFs. Discrete Applied Mathematics, 96-97(1-3):29--40, October 1999.
62. E. Boros, A. Recski, T. Szkaliczki, and F. Wettl. Polynomial time Manhattan routing without doglegs - a generalization of Gallai's algorithm. Computing and Informatics, 18(4):403--413, November 1999.
63. E. Boros and T. Ünlüyürt. Diagnosing double regular systems. Annals of Mathematics and Artificial Intelligence, 26(1-4):171--191, December 1999.
64. E. Boros and T. Ünlüyürt. Sequential testing of series-parallel systems of small depth. In Manuel Laguna and eds. Jose Luis Gonzales Velarde, editors, OR Computing Tools for the New Millennium., pages 39--74, January 2000. Conference of the INFORMS Computing Society, Cancun, Mexico, January 5-7, 2000.
65. E. Boros and V. Gurvich. Stable effectivity functions and perfect graphs. Mathematical Social Sciences, 39:175-194, February 2000.
66. E. Boros, Y. Crama, O. Ekin, P.L. Hammer, T. Ibaraki, and A. Kogan. Boolean normal forms, shellability and reliability computations. SIAM Journal on Discrete Mathematics, 13(2):212--226, May 2000.
67. E. Boros, P.L. Hammer, T. Ibaraki, A. Kogan, E. Mayoraz, and I. Muchnik. An implementation of logical analysis of data. IEEE Transactions on Knowledge and Data Engineering, 12(2):292--306, May 2000.
68. E. Boros, V. Gurvich, L. Khachiyan, and K. Makino. Generating partial and multiple transversals of a hypergraph. In J.D.P. Rolim U. Montanari and E. Welzl, editors, Automata, Languanges and Programming, 27th International Colloquium, ICALP 2000, volume 1853 of Lecture Notes in Computer Science, pages 588--599, Berlin, Heidelberg, New York, July 2000. Springer Verlag.
69. P.B. Kantor, E. Boros, B. Melamed, V. Menkov, B. Shapira, and D.J. Neu. Capturing human intelligence in the net. Communications of the ACM, 43(8):112--115, August 2000.
70. E. Boros, T. Ibaraki, and K. Makino. Fully consistent extensions of partially defined Boolean functions with missing bits. In J. van Leeuwen, editor, IFIP TCS 2000, volume 1872 of Lecture Notes in Computer Science, pages 257--272. Springer Verlag, August 2000.
71. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. An incremental RNC algorithm for generating all maximal independent sets in hypergraphs of bounded dimension. Parallel Processing Letters, 10(4):253--266, December 2000.
72. E. Boros, T. Horiyama, T. Ibaraki, K. Makino, and M. Yagiura. Finding essential attributes in binary data. In Helen Meng Kwong Sak Leung, Lai-Wan Chan, editor, 2nd International Conference on Intelligent Data Engineering and Automated Learning (IDEAL 2000), volume 1983 of Lecture Notes in Computer Science, pages 133--138, Berlin, Heidelberg, New York, December 2000. Springer Verlag.
73. E. Boros, V. Gurvich, L. Khachiyan, and K. Makino. Dual-bounded generating problems: Partial and multiple transversals of a hypergraph. SIAM Journal on Computing, 30(6):2036--2050, May 2001.
74. E. Boros, Y. Caro, Z. Füredi, and R. Yuster. Covering non-uniform hypergraphs. Journal of Combinatorial Theory (B), 82(2):270--284, July 2001.
75. E. Boros, K. Elbassioni, V. Gurvich, L. Khachiyan, and K. Makino. Generating all minimal integer solutions to a monotone system of linear inequalities. In P.G. Spirakis F. Orejas and Jan van Leeuwen, editors, Automata, Languages and Programming, 28th International Colloquium, ICALP 2001, volume 2076 of Lecture Notes in Computer Science, pages 92--103, Berlin, Heidelberg, New York, July 2001. Springer Verlag.
76. E. Boros, P.L. Hammer, F. Ricca, and B. Simeone. Combinatorial problems related to origin-destination matrices. Discrete Applied Mathematics, 115(1-3):15--36, December 2001.
77. Randerath, B.; Speckenmeyer, E.; Boros, E.; Cepek, O.; Hammer, P.; Kogan, A.; Makino, A.; Simeone, B.: A Satisfiability Formulation of Problems on Level Graphs. In: Proceedings of the LICS 2001 Workshop on Theory and Applications of Satisfiability Testing (SAT 2001), Boston/Massachusetts, June 14-15 2001, Kautz, H.; Selman, B. (Ed.), Electronic Notes in Discrete Mathematics, Volume 9, pp. 1-9.
78. E. Boros, V. Gurvich, L. Khachiyan, and K. Makino. On the complexity of generating maximal frequent and minimal infrequent sets. In H. Alt and A. Ferreira, editors, 19th International Symposium on Theoretical Aspects of Computer Science, STACS 2002, volume 2285 of Lecture Notes in Computer Science, pages 133-141, Berlin, Heidelberg, New York, March 2002. Springer Verlag.
79. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Matroid intersections, polymatroid inequalities, and related problems. In K. Diks and W. Rytter, editors, The 27th International Symposium on Mathematical Foundations of Computer Science, MFCS 2002, volume 2420 of Lecture Notes in Computer Science, pages 143--154, Berlin, Heidelberg, New York, August 2002. Springer Verlag. August 26-30, 2002, Warszawa - Otwock, Poland.
80. E. Boros, K. Elbassioni, V. Gurvich, L. Khachiyan, and K. Makino. Dual-bounded generating problems: All minimal integer solutions for a monotone system of linear inequalities. SIAM Journal on Computing, 31(5):1624--1643, September 2002.
81. E. Boros and P. L. Hammer. Pseudo-Boolean optimization. Discrete Applied Mathematics, 123:155-225, November 2002.
82. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Generating dual-bounded hypergraphs. Optimization Methods and Software, 17(5):749--781, November 2002.
83. E. Boros, P.L. Hammer, F. Ricca, and B. Simeone. Spazi ternari di hamming e generazione algebrica efficiente dei dati. In M. Cerasoli, editor, Gian-Carlo Rota Memorial Conference, Barisciano, Italy, 2002, pages 107--122. Dipartimento di Istituzioni e Sistemi per l'Economia, Università de L'Aquila, November 2002.
84. E. Boros, M. C. Golumbic, and V. E. Levit. On the number of vertices belonging to all maximum stable sets of a graph. Discrete Applied Mathematics, 124:17--25, December 2002.
85. E. Boros, V. Gurvich, and S. Hougardy. Recursive generation of partitionable graphs. Journal of Graph Theory, 41(4):259--285, December 2002.
86. E. Boros, T. Ibaraki, and K. Makino.Variations on extending partially defined boolean functions with missing bits. Information and Computation, 180(1):53--70, January 2003.
87. E. Boros, K. Elbassioni, V. Gurvich, L. Khachiyan, and K. Makino. An intersection inequality for discrete distributions and related generation problems. In J.C.M. Baeten, J.K. Lenstra, J. Parrow, and G.J. Woeginger, editors, Automata, Languages and Programming, 30th International Colloquium, ICALP 2003, volume 2719 of Lecture Notes in Computer Science, pages 543--555, Berlin, Heidelberg, New York, July 2003. Springer Verlag. Eindhoven, The Netherlands, June 30 - July 4, 2003.
88. E. Boros, V. Gurvich, L. Khachiyan, and K. Makino. On maximal frequent and minimal infrequent sets in binary matrices. Annals of Mathematics and Artificial Intelligence 39(3):211--221, August 2003.
89. E. Boros, T. Horiyama, T. Ibaraki, K. Makino, and M. Yagiura. Finding essential attributes from binary data. Annals of Mathematics and Artificial Intelligence 39(3):223--257, August 2003.
90. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. An inequality for polymatroid functions and its applications. Discrete Applied Mathematics 131(2):255--281, September 2003.
91. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Extending the Balas-Yu inequality on the number of maximal independent sets of graphs to hypergraphs and lattice products with applications. Mathematical Programming, Series B, 98(1-3):355--368, September 2003.
92. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. An efficient implementation of a quasi-polynomial algorithm for generating hypergraph transversals. In G. D. Battista and U. Zwick, editors, Algorithms - ESA 2003, 11th Annual European Symposium, volume 2832 of Lecture Notes in Computer Science, pages 556--567, Berlin, Heidelberg, New York, September 2003. Springer Verlag. Budapest, Hungary, September 2003.
93. E. Boros and V. Gurvich. On Nash-solvability in pure stationary strategies of finite games with perfect information which may have cycles. Mathematical Social Sciences, 46(2):207--241, October 2003.
94. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Algorithms for enumerating cycles in matroids. In N. Katoh T. Ibaraki and H. Ono, editors, Algorithms and Computation, 14th International Symposium, ISAAC 2003, volume 2906 of Lecture Notes in Computer Science, pages 485--494, Berlin, Heidelberg, New York, July 2003. Springer Verlag. Kyoto, Japan, December 2003.
95. E. Boros, V. Gurvich, and R. Meshulam. Difference graphs. Discrete Mathematics, 276(1-3):59--64, February 2004.
96. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Generating maximal independent sets for hypergraphs with bounded edge-intersections. In Martin Farach-Colton, editor, LATIN 2004: Theoretical Informatics: 6th Latin American Symposium, volume 2976 of Lecture Notes in Computer Science, pages 488--498, Berlin, Heidelberg, New York, April 2004. Springer. Buenos Aires, Argentina, April 2004.
97. E. Boros, K. Elbassioni, V. Gurvich, L. Khachiyan, and K. Makino. An efficient implementation of a joint generation algorithm. In Celso C. Ribeiro and Simone L. Martins, editors, Experimental and Efficient Algorithms, Third International Workshop, WEA 2004, volume 3059 of Lecture Notes in Computer Science, pages 114-128, Berlin, Heidelberg, New York, May 2004. Springer. Angra dos Reis, Brazil, May 2004.
98. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Enumerating minimal dicuts and strongly connected subgraphs and related geometric problems. In D. Bienstock and G. Nemhauser, editors, Integer Programming
and Combinatorial Optimization, 10th International IPCO Conference, New York, NY, USA, volume 3064 of Lecture Notes in Computer Science, pages 152--162, Berlin, Heidelberg, New York, June 2004. Springer.
99. E. Boros, V. Gurvich, L. Khachiyan, and K. Makino. Dual-bounded generating problems: Weighted transversals of a hypergraph. Discrete Applied Mathematics, 142(1-3):1-15, August 2004.
100. E. Boros, K. Elbassioni, V. Gurvich, L. Khachiyan, and K. Makino. Generating paths and cuts in multi-pole (di)graphs. In Jirí Fiala, Václav Koubek, and Jan Kratochvíl, editors, MFCS'04, volume 3153 of Lecture Notes in Computer Science, pages 298-309, Berlin, Heidelberg, New York, August 2004. Springer. Prague, Czech Republic, August 2004.
101. E. Boros and V. Menkov. Exact and approximate discrete optimization algorithms for finding useful disjunctions of categorical predicates in data analysis. Discrete Applied Mathematics, 144((1-2)):43--58, November 2004.
102. E. Boros, K. Elbassioni, and V. Gurvich. Algorithms for generating minimal blockers of perfect matchings in bipartite graphs and related problems. In Susanne Albers and Tomasz Radzik, editors, Algorithms -- ESA 2004, 12th Annual European Symposium, volume 3221 of Lecture Notes in Computer Science, pages 122-133, Berlin, Heidelberg, New York, September 2004. Springer. Bergen, Norway, September 2004.
103. E. Boros, I. Lari, and B. Simeone. Block linear majorants in quadratic 0-1 optimization. Discrete Applied Mathematics, 145(1):52--71, September 2004.
104. E. Boros, R.E. Jamison, R. Laskar, and H.M. Mulder. On 3-simplicial vertices in planar graphs. Discussiones Mathematicae Graph Theory, 24(3):413--421, October 2004.
105. E. Boros, V. Gurvich, S. Jaslar, and D. Krasner. Stable matchings in three-sided systems with cyclic preferences. Discrete Mathematics, 289(1-3):1--10, December 2004.
106. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. A new algorithm for the hypergraph transversal problem. In Lusheng Wang, editor, Computing and Combinatorics: 11th Annual International Conference, COCOON 2005, Kunming, China, August 2005, volume 3595 of Lecture Notes in Computer Science, pages 767 -- 776, New York, Berlin, Heidelberg, August 2005. Springer-Verlag.
107. E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Generating all minimal integral solutions to monotone and-or systems of linear, transversal and polymatroid inequalities. In Andrzej Szepietowski Joanna Jedrzejowicz, editor, Mathematical Foundations of Computer Science 2005: 30th International Symposium, MFCS 2005, Gdansk, Poland, August 29-September 2, 2005., volume 3618 of Lecture Notes in Computer Science, pages $556-$-567, New York, Berlin, Heidelberg, August 2005. Springer-Verlag.
108. E. Boros, T. Ibaraki, H. Ichikawa, K. Nonobe, T. Uno, and M. Yagiura. Heuristic approaches to the capacitated square covering problem. Pacific Journal of Optimization, 1(3):465--490, September 2005.
109. E. Boros, V. Gurvich, and Y. Liu. Comparison of convex hulls and box hulls. Ars Combinatoria, 77, October 2005.
110. E. Boros, T. Szönyi, and K. Tichler. On defining sets for projective planes. Discrete Mathematics, 303(1-3):1731, November 2005.
111. L. Khachiyan, E. Boros, K. Elbassioni, V. Gurvich, and K. Makino. On the complexity of some enumeration problems for matroids. SIAM Journal on Discrete Mathematics, 19(4):966-984, December 2005.
112. L. Khachiyan, E. Boros, K. Borys, K. Elbassioni, V. Gurvich, and K. Makino. Generating cut conjunctions and bridge avoiding extensions in graphs. In Xiaotie Deng and Ding-Zhu Du, editors, Algorithms and Computation, 16th International Symposium, ISAAC 2005, Sanya, Hainan, China, December 19-21, 2005, volume 3827 of Lecture Notes in Computer Science, pages 156--165, New York, Berlin, Heidelberg, December 2005. Springer.
113. L. Khachiyan, E. Boros, K. Borys, K. Elbassioni, V. Gurvich, and K. Makino. Enumerating spanning and connected subsets in graphs and matroids. In ESA'06: Proceedings of the $14^{\text {th }}$ Annual European Symposium on Algorithms (ESA 2006), Zurich, Switzerland, September 2006. Volume 4168 of Lecture Notes in Computer Science, pages 444-455, New York, Berlin, Heidelberg, December 2005. Springer.
114. L. Khachiyan, E. Boros, K. Borys, K. Elbassioni, and V. Gurvich. Generating all vertices of a polyhedron is hard. In SODA '06: Proceedings of the seventeenth annual ACM-SIAM Symposium on Discrete algorithm, New York, NY, USA, January 2006, pp. 758-765. ACM Press.
115. E. Boros and V. Gurvich. Perfect graphs, kernels, and cores of cooperative games. Discrete Mathematics 306 (19-20) pp. 2336-2354, 2006.
116. E. Boros, K. Elbassioni, V. Gurvich and L. Khachiyan. An efficient implementation of a quasi-polynomial algorithm for generating hypergraph transversals and its application in joint generation. Discrete Applied Mathematics. 154 (2006) pp.2350-2372.
117. E. Boros, K. Elbassioni and V. Gurvich. Transversal hypergraphs to perfect matchings in bipartite graphs: Characterization and generation algorithms. J. of Graph Theory (2006) pp. 209-232.
118. E. Boros, P.L. Hammer and G. Tavares. Local search heuristics for Quadratic Unconstrained Binary Optimization (QUBO). J. Heuristics 13 (2007) pp. 99-132.
119. L.Khachiyan, E. Boros, K. Elbassioni, V. Gurvich and K. Makino. Enumerating disjunctions and conjunctions of paths and cuts in reliability theory. Discrete Applied Mathematics 155 (2) (2007) pp. 137-149.
120. L. Khachiyan, E. Boros, V. Gurvich and K. Elbassioni. Computing many maximal independent sets for hypergraphs in parallel. Parallel Processing Letters 2 (2007) pp. 141-152.
121. L.Khachiyan, E.Boros, K. Elbassioni, and V.Gurvich. A global parallel algorithm for the hypergraph transversal problem. Information Processing Letters 101 (4) (2007), 148-155.
122. L. Khachiyan, E.Boros, K. Elbassioni, V.Gurvich, and K. Makino. Dual-bounded generating problems: efficient and inefficient points for discrete probability distributions and sparse boxes for multidimensional data.
Theoretical Computer Science 379 (Special issue, ed. G. Woeginger), pp 361-376, 2007.
123. L.Khachiyan, E.Boros, K. Elbassioni, and V.Gurvich. On the dualization of hypergraphs with bounded edgeintersections and other related classes of hypergraphs. Theoretical Computer Science 382, pp 139-150, 2007.
124. L. Khachiyan, E. Boros, K. Borys, K. Elbassioni, V. Gurvich, and K. Makino. Enumerating spanning and connected subsets in graphs and matroids. JORSJ (Journal of the Operations Research Society of Japan) 50 (4), 325-338, 2007.
125. E. Boros, K. Borys, K. Elbassioni, V. Gurvich, K. Makino and G. Rudolf. Generating minimal k-vertex connected spanning subgraphs. In: Proceedings of the 13th Annual International Computing and Combinatorics Conference (COCOON 2007) (G. Lin, Ed), Banff, Alberta, Canada, July 2007. Volume 4598 of the Lecture Notes in Computer Science, 222-231, Springer, 2007.
126. E. Boros, R. Brualdi, Y. Crama, and A.J. Hoffman: Gersgorin variations III: On a theme of Brualdi and Varga. Linear Algebra and Its Applications 428, 14-19, 2008.
127. L. Khachiyan, E. Boros, K. Borys, K. Elbassioni, and V. Gurvich. Generating all vertices of a polyhedron is hard. Discrete and Computational Geometry, 39, 2008, 174-190.
128. E. Boros, P. L. Hammer, R. Sun and G. Tavares. A max-flow approach to improved lower bounds for quadratic 0-1 minimization. Discrete Optimization 5 (2), 501-529, 2008.
129. L. Khachiyan, E. Boros, K. Borys, K. Elbassioni, V. Gurvich, G.Rudolf and J. Zhao: On short paths interdiction problems:Total and node-wise limited interdiction. Theory of Computing Systems 43 (2), 204-233, 2008.
130. E. Boros, V. Gurvich and I.Zverovich: Neighborhood hypergraphs of bipartite graphs. Journal of Graph Theory, 69-95, 2008.
131. E. Boros, K. Elbassioni, V. Gurvich, K. Makino, and V. Oudalov: A Complete Characterization of NashSolvability of Bimatrix Games in Terms of the Exclusion of Certain $2 \times 2$ Subgames, Proceedings of the Third International Computer Science Symposium in Russia, CSR 2008 (Moscow, Russia, June 7-12, 2008; eds., Edward A. Hirsch, Alexander A. Razborov, Alexei Semenov, Anatol Slissenko), Lecture Notes in Computer Science, Volume 5010, pages 99-109.
132. E. Boros, K. Elbassioni, V.Gurvich, and L. Khachiyan: On Enumerating Minimal Dicuts and Strongly Connected Subgraphs. Algorithmica 50, 159-172, 2008.
133. K. Haraguchi, M. Yagiura, E. Boros and T. Ibaraki: A Randomness Based Analysis on the Data Size Needed for Removing Deceptive Patterns. IEICE Transactions on Information and Systems, E91-D (2008) 781-788.
134. L. Khachiyan, E. Boros, K. Elbassioni and V. Gurvich: Generating all minimal integral solutions to AND-OR systems of monotone inequalities: Conjunctions are simpler than disjunctions. Discrete Applied Mathematics 156 (11), 2020-2034, 2008.
135. E. Boros, L. Khachiyan, K. Borys, K. Elbassioni, V. Gurvich and K. Makino: Enumerating cut conjunctions in graphs and related problems. Algorithmica 51 (3), 239-263, 2008.
136. E. Boros, L. Lei, Y. Zhao and H. Zhong: Scheduling vessels and container-yard operations with conflicting objectives. Annals of Operations Research 161, 149-170, 2008.
137. E. Boros, K. Elbassioni, V. Gurvich and K. Makino: Generating vertices of polyhedra and related monotone generation problems. Centre de Recherches Mathematiques CRM Proceedings and Lecture Notes 48, 2008.
138. E. Boros, K. Elbassioni and K. Makino: On Berge Multiplication for Monotone Boolean Dualization. In Automata, Languages and Programming, $35^{\text {th }}$ International Colloquium, ICALP 2008, Reykhavik, Iceland, July 2008, volume 5125 of Lecture Notes in Computer Science, 48-59, Springer Verlag.
139. K. Borys, E. Boros, V. Gurvich, and G. Rudolf: Generating 3-vertex connected spanning subgraphs. Discrete Mathematics 308 (24), 6285-6297, 2008.
140. E. Boros, E. Elsayed, P. Kantor, M. Xie and F.S. Roberts: Optimization problems for port-of-entry detection systems. In: Intelligence and Security Informatics: Techniques and Applications. H. Chen and C.C. Yang (eds.), 319-335, Springer, 2008.
141. E. Boros, V. Gurvich and I. Zverovich: On split and almost CIS-graphs. Australasian Journal of Cmbinatorics 43, 163-180, 2009.
142. E. Boros and V. Gurvich: Vertex- and edge-minimal and locally minimal graphs. Discrete Mathematics 309 (12), 3853-3865, 2009.
143. E. Boros, V. Gurvich, and K. Makino: Minimal and locally minimal games and game forms. Discrete Mathematics 309 (13), 4456-4468, 2009.
144. T. Unluyurt and E. Boros: A note on "optimal resource allocation for security in reliability systems". European Journal of Operational Research 199, 601-603, 2009.
145. E. Boros, L. Fedzhora, P.B. Kantor, K. Saeger, P. Stroud: Large scale LP model for finding optimal container inspection strategies. Naval Research Logistics, Vol. 56 (5), 404-420, 2009.
146. E. Boros, O. Cepek, A. Kogan, and P. Kucera: A subclass of Horn CNFs optimally compressible in polynomial time. Annals of Mathematics and Artificial Intelligence 57 (3-4), 249-291, 2009.
147. E. Boros and K. Makino: A fast and simple parallel algorithm for the monotone duality problem. In ICALP '09: Proceedings of the $36^{\text {th }}$ International Colloquium on Automata, languages and Programming, LNCS 5555, 183194 (2009).
148. D.V. Andrade, E. Boros, and V. Gurvich: Not complementary connected and not CIS d-graphs form weakly monotone families. Discrete Mathematics 310 (5), 1089-1096, 2010, http://dx.doi.org/10.1016/i.disc.2009.11.006
149. E. Boros, V. Gurvich, K. Makino and D. Papp: Acyclic, or totally tight, two-person game forms; characterization and main properties. Discrete Mathematics 310 (6-7), 1135-1151, 2010, http://dx.doi.org/10.1016/i.disc.2009.11.009
150. E. Boros, O. Cepek, A. Kogan, and P. Kucera: Exclusive and essential sets of implicates of Boolean functions. Discrete Applied Mathematics 158 (2), 81-96, 2010, http://dx.doi.org/10.1016/i.dam.2009.08.012
151. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: On effectivity functions of game forms . Games and Economic Behavior 68, 512-531, 2010, http://dx.doi.org/10.1016/i.geb.2009.09.002
152. 

P. Kantor and E. Boros: Deceptive Detection Methods for Effective Security with Inadequate Budgets: The Testing Power. Risk Analysis 30 (4), 663-673, 2010, http://dx.doi.org/10.1111/j.15396924.2010.01370.x
153. E. Boros, K. Elbassioni, K. Makino: Left-to-right multiplication for monotone Boolean dualization. SIAM Journal on Computing 39 (7), 3424-3439, 2010, http://dx.doi.org/10.1137/080734881
154. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: A pumping algorithm for ergodic stochastic mean payoff games with perfect information. In Integer Programming and Combinatorial Optimization, Proceedings of the $14^{\text {th }}$ International Conference, IPCO 2010 (F. Eisenbrand and F.B. Shepherd, Eds) Lausanne, Switzerland, June 2010, LNCS 6080, 341-354, 2010, http://dx.doi.org/ 10.1007/978-3-642-13036-6 26
155. E. Boros, V. Gurvich and I. Zverovich: Friendship two-graphs. Graphs and Combinatorics 26, 617-628, 2010, http://dx.doi.org/10.1007/s00373-010-0914-0
156.
E. Boros, N. Goldberg, P. Kantor, and J. Word: Optimal sequential inspection policies. Annals of Operations Research 187, 89-120, 2011, http://dx.doi.org/10.1007/s10479-010-0799-6
157. E. Boros, K. Elbassioni, M. Fouz, V. Gurvich, K. Makino, and B. Manthey: Stochastic mean payoff games: Smoothed analysis and approximation schemes. In ICALP 2011, Part I, LNCS 6755, p. 147-158, 2011 (L. Aceto, M. Henzinger and J. Sgall, eds.), 2011, http://dx.doi.org/10.1007/978-3-642-22006-7 13
158. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: Every stochastic game with perfect information admits a canonical form. GAMENETS 2011, Shanghai, China, April 2011.
159. Endre Boros, Vincenzo Spinelli, Federica Ricca: Incompatibility graphs and data mining. CTW 2011: 4-7, http://ctw2011.dia.uniroma3.it/ctw proceedings.pdf - page=16
160. E. Boros, K. Elbassioni, V. Gurvich, and H.R.Tiwary: The negative cycles polyhedron and hardness of checking some polyhedral properties. Annals of Operations Research 188, 63-76, 2011 (Special Volume in honor of P.L. Hammer), http://dx.doi.org/10.1007/s10479-010-0690-5
161. E. Boros, Y. Crama, P.L. Hammer, T. Ibaraki, A. Kogan, and K. Makino: Logical Analysis of Data: Classification with Justification. Annals of Operations Research 188, 2011,33-62, http://dx.doi.org/10.1007/s10479-011-0916-1
162. E. Boros, V. Gurvich, K. Makino, and W. Shao: Nash-solvability of symmetric cycle game forms. Discrete Applied Mathematics 159 (15), 1461-1487, 2011, http://dx.doi.org/10.1016/i.dam.2011.05.011
163. E. Boros, A. Fix, A.G. Gruber, R. Zabih: A graph cut algorithm for higher order Markov random fields. (Eds: S. Lin, B. Schiele, S. Soatto, P. Sturm) IEEE Conference Proceedings for ICCV 2011, Barcelona, Spain (2011), http://dx.doi.org/10.1109/ICCV.2011.6126347
164. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: On Nash equilibria and improvement cycles in pure positional strategies for Chess-like and Backgammon-like $n$-person games. Discrete Mathematics 312 (4), 2012, 772-788, http://dx.doi.org/10.1016/j.disc.2011.11.011
165. E. Boros, O. Čepek, and V. Gurvich: Total tightness implies Nash solvability for three-person game forms. Discrete Mathematics 312 (8), 1436-1443, 2012, http://dx.doi.org/10.1016/j.disc.2011.12.028
166. A. Gruber and E. Boros: Hardness results for approximate pure Horn CNF formulae minimization. Proceedings of ISAIM 2012, Ft. Lauderdale, FL (2012),
http://www.cs.uic.edu/pub/Isaim2012/WebPreferences/ISAIM2012 Boros etal.pdf
167. E. Boros and A. Gruber: On quadratization of pseudo-Boolean functions. Proceedings of ISAIM 2012, Ft. Lauderdale, FL (2012), http://www.cs.uic.edu/pub/Isaim2012/WebPreferences/ISAIM2012 Boolean Boros Gruber.pdf
168. E. Boros, L. Fedzhora, V. Gurvich, and S. Jaslar: On Rank-profiles of Stable Matchings, Proceedings of MATCH-UP 2012 - the Second International Workshop on Matching Under Preferences (P. Biro, T. Fleiner, D. Manlove and T. Solymosi, eds.), Budapest, pp. 27-38, 2012, http://econ.core.hu/file/download//proceedings.pdf
169. A. Fix, Y-H. (Joyce) Chen, E. Boros, and R. Zabih: Approximate MRF Inference Using Bounded Treewidth Subgraphs, ECCV 2012 (European Conference on Computer Vision), (Eds: A. Fitzgibbon et al), Part I, LNCS 7572, p. 385-398, 2012, http://dx.doi.org/10.1007/978-3-642-33718-5 28
170. E. Boros, V. Gurvich, and V. Oudalov: A Polynomial Algorithm for a Two Parameter Extension of Wythoff NIM Based on the Perron-Frobenius Theory. International Journal of Game Theory 42(4): 891-915, 2013, http://dx.doi.org/10.1007/s00182-012-0338-6
171. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: On Canonical Forms for Zero-Sum Stochastic Mean Payoff Games. Dynamic Games and Applications, Volume 3, Issue 2, pp 128-161, 2013, http://dx.doi.org/10.1007/s13235-013-0075-x.
172. E. Boros, K. Elbassioni, V. Gurvich, K. Makino: On discounted approximations of undiscounted stochastic games and Markov decision processes with limited randomness. Oper. Res. Lett. 41(4): 357-362 (2013), http://dx.doi.org/10.1016/j.orl.2013.04.006
173. E. Boros, V.Gurvich, S. Solovieva, and E. Yamangil: Chess-like Games May Have No Uniform Nash Equilibria Even in Mixed Strategies, Game Theory, Volume 2013 (2013), Article ID 534875, 10 pages, http://dx.doi.org/10.1155/2013/534875.
174. E. Boros, P. Heggernes, P.Van 'T Hof and M. Milanic: Vertex Connectivity in Graphs. Proceedings of 10th Annual Conference on Theory and Applications of Models of Computation, TAMC 2013: 331-342, http://dx.doi.org/10.1007/978-3-642-38236-9 30
175. E. Boros, K. Elbassioni, V. Gurvich and K. Makino: A Pseudo-Polynomial Algorithm for Mean Payoff Stochastic Games with Perfect Information and a Few Random Positions. ICALP (1) 2013: 220-231, http://dx.doi.org/10.1007/978-3-642-39206-1 19
176. E. Boros, O. Čepek, and P. Kučera: A decomposition method for CNF minimality proofs, Theoretical Computer Science, 510: 111-126, 2013, http://dx.doi.org/10.1016/j.tcs.2013.09.016
177. E. Boros and I. Lari: Cones of Nonnegative Quadratic Pseudo-Boolean Functions. Proceedings of ISAIM 2014, Ft. Lauderdale, FL, January 2014, http://www.cs.uic.edu/pub/Isaim2014/WebPreferences/ISAIM2014 Boolean Boros Lari.pdf
178. E. Boros, P. Heggernes, P.Van 'T Hof and M. Milanic: Vector Connectivity in Graphs. Networks, 63(4): 277-285 February 2014, http://dx.doi.org/10.1002/net. 21545
179. E. Boros, V. Gurvich, and M. Milanič: On CIS Circulants, Discrete Mathematics, 318: 78-95, March 2014, http://dx.doi.org/10.1016/j.disc.2013.11.015
180. S. Bora, E. Boros. L. Lei, W.A. Chaovalitwongse, G.J. Lim, H.R. Parsaei: A Case of the Container-Vessel Scheduling Problem, ICORES, March 2014, 63-71, http://dx.doi.org/10.5220/0004831400630071
181. E. Boros and A. Gruber: Hardness Results for Approximate Pure Horn CNF Formulae Minimization. Annals of Mathematics and Artificial Intelligence, 71(4): 327-363 August 2014, http://dx.doi.org/10.1007/s10472-014-94159
182. E. Boros, A. Scozzari, F. Tardella, and P. Veneziani: Polynomially Computable Bounds for the Probability of the Union of Events. Mathematics of Operations Research, 39(4): 1311-1329, November 2014, http://dx.doi.org/10.1287/moor.2014.0657
183. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: A Potential Reduction Algorithm for Two-person Zero-sum Limiting Average Payoff Stochastic Games, 8th Annual International Conference on Combinatorial Optimization and Applications, COCOA, November 2014: 694-709. http://dx.doi.org/10.1007/978-3-319-12691-3 52
184. Nelson, C. E. Boros, F. Roberts, J. Rubio-Herrero, P. Kantor, C. McGinity, B. Nakamura, B. Ricks, P. Ball, C. Conrad, K. Hanson, T. Rader: ACCAM Global Optimization Model for the USCG Aviation Air Stations. Proc. of 2014 ISERC Conference. Jun 2014. Montreal, Canada; http://www.highbeam.com/doc/1P3-3491045981.html
185. Boros, K. Elbassioni, V. Gurvich, and K. Makino: Markov Decision Processes and Stochastic Games with Total Effective Payoff; 32nd Symposium on Theoretical Aspects of Computer Science, STACS, pp. 103-115, March 2015; http://dx.doi.org/10.4230/LIPIcs.STACS.2015.103
186. McGinity, Curtis, Boros, Endre, Kantor, Paul, Roberts, Fred, Nakamura, Brian, Nelson, Christie, Ricks, Brian, Rader, Thomas J., Hanson, Kevin J., Ball, Patrick J., Conrad, Chad M. "The ACCAM Model: Simulating Aviation Mission Readiness for US Coast Guard Stations." Proc. of 2015 IEEE International Conference on Technologies for Homeland Security. April 2015. Waltham, MA.
187. B. Nakamura, E. Boros, P. Kantor, C. McGinity, C. Nelson, M. Oster, B. Ricks, F. Roberts, W. Yao, P. Ball, C. Conrad, T. Rader, K. Hanson. "Optimal US Coast Guard Boat Allocations with Sharing." Proceedings of 2015 IIE Industrial and Systems Engineering Research Conference (ISERC, June 2015. Nashville, TN); 2015 IIE Best Paper Award - ISERC Homeland Security Track"
188. Alexander Fix, Aritanan Gruber, Endre Boros, Ramin Zabih, "A Hypergraph-based Reduction for Higher-order Binary Markov Random Fields", IEEE Transactions on Pattern Analysis \& Machine Intelligence, 37(7): 13871395, July 2015, http://dx.doi.org/10.1109/TPAMI.2014.2382109
189. E. Boros and V. Gurvich: Sandwich problem for $\$ \mid P i \$-$ and $\$ 1$ Delta $\$$-free multigraphs and its applications to positional games; Discrete Mathematics, 338(12), 2421-2436, December 2015, http://dx.doi.org/10.1016/j.disc.2015.06.010
190. E. Boros, O. Cepek, and K. Makino, "A combinatorial min-max theorem and minimization of pure-Horn functions", Proceedings of ISAIM 2016, January 2016, http://isaim2016.cs.virginia.edu/papers/ISAIM2016 Boolean Boros etal.pdf
191. C. Wang, N. Komodakis, H. Ishikawa, O. Veksler, E.Boros: Inference and Learning of Graphical Models: Theory and Applications in Computer Vision and Image Analysis (Preface). Computer Vision and Image Understanding 143: 52-53, 2016. http://dx.doi.org/10.1016/i.cviu.2016.01.001
192. E. Boros, N. Chiarelli, and M. Milanic: Equistarable bipartite graphs; Discrete Mathematics, 339 (7), pp. 19601969, July 2016, http://dx.doi.org/10.1016/i.disc.2015.07.009
193. E. Boros, K. Elbassioni, V. Gurvich, K. Makino, and V. Oudalov: Sufficient conditions for the existence of Nash equilibria in bimatrix games in terms forbidden $\$ 21$ times $2 \$$ subgames. International Journal of Game Theory, 45, pp. 1111-1131, 2016. http://dx.doi.org/10.1007/s00182-015-0513-7
194. M. Anthony, E. Boros, Y. Crama, and A. Gruber: Quadratization of Symmetric Pseudo-Boolean Functions; Discrete Applied Mathematics, 203, pp. 1-12, April 2016. http://dx.doi.org/10.1016/i.dam.2016.01.001
195. M. Anthony, E. Boros, Y. Crama, and A. Gruber: Quadratic reformulations of nonlinear binary optimization problems; Mathematical Programming, 162, pp. 115-144, March 2017. http://dx.doi.org/10.1007/s10107-016-1032-4
196. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: A Nested Family of $\$ k \$$-total Effective Rewards in Positional Games. International Journal of Game Theory, 46, pp. 263-293, March 2017. http://dx.doi.org/10.1007/s00182-016-0532-z
197. E. Boros, V. Gurvich and M. Milanic: On Equistable, Split, CIS, and Related Classes of Graphs. Discrete Applied Mathematics 216, 47-66, January 2017. http://dx.doi.org/10.1016/j.dam.2015.07.023
198. E. Boros, K. M. Elbassioni, V. Gurvich, K. Makino: A Convex Programming-based Algorithm for Mean Payoff Stochastic Games with Perfect Information. CoRR abs/1610.06681 (2016), Optimization Letters, Volume 11, Issue 8, pp 1499--1512, December 2017. http://link.springer.com/article/10.1007/s11590-017-1140-y
199. E. Boros, O. Cepek and K. Makino: Strong Duality in Horn Minimization. $21^{\text {st }}$ International Symposium on Fundamentals of Computation Theory, September 11-13, 2017.
200. E. Boros and I. Maros: In Memoriam András Prékopa, Magyar Tudomány, 178 (4), pp. 497-500. April, 2017. (in Hungarian)
201. Endre Boros, Yves Crama and Elisabeth Rodríguez-Heck, "Quadratizations of symmetric pseudo-Boolean functions: sub-linear bounds on the number of auxiliary variables", Proceedings of ISAIM 2018, January 2018, http://isaim2018.cs.virginia.edu/papers/ISAIM2018 Boolean Boros etal.pdf
202. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: Markov Decision Processes and Stochastic Games with Total Effective Payoff, accepted in the Annals of Operations Research, January, 2018.
203. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: A Potential Reduction Algorithm for Two-Person Zero-Sum Mean Payoff Stochastic Games, Dynamic Games and Applications, 8, pp. 22-41, March 2018. http://link.springer.com/article/10.1007/s13235-016-0199-x
204. E. Boros, V. Gurvich, N.B. Ho, K. Makino, and P. Mursic: On the Sprague-Grundy function of Exact k-Nim. Discrete Applied Mathematics, 239(20), pp. 1-14, April 2018. https://doi.org/10.1016/j.dam.2017.08.007
205. E. Boros, V. Gurvich, M. Milanic, V. Oudalov, J. Vicic: A three-person chess-like game without Nash equilibria. Discrete Applied Mathematics, 243(10), pp. 21-28, July 2018. https://doi.org/10.1016/j.dam.2018.01.008
206. E. Boros, K. Elbassioni, M. Fouz, V. Gurvich, K. Makino, and B. Manthey: Approximation Schemes for Stochastic Mean Payoff Games with Perfect Information and Few Random Positions. Algorithmica 80(11): 31323157, November 2018. https://link.springer.com/article/10.1007/s00453-017-0372-7
207. E. Boros, V. Gurvich, N.B. Ho, K. Makino, and P. Mursic; Sprague-Grundy Function of Matroids and Related Hypergraphs. Theoretical Computer Science, 799, pp. 40-58, December 2019. https://doi.org/10.1016/j.tcs.2019.09.041
208. E. Boros, V. Gurvich, N.B. Ho, K. Makino, and P. Mursic; Sprague-Grundy function of Symmetric Hypergraphs, Journal of Combinatorial Theory (A), 165, pp. 176-186, July 2019. https://doi.org/10.1016/j.jcta.2019.02.006
209. E. Boros, K. Elbassioni, V. Gurvich, and K. Makino: A Pseudo-Polynomial Algorithm for Mean Payoff Stochastic Games with Few Random Positions, Information and Computation, 267, pp. 74-95, August 2019. https://doi.org/10.1016/j.ic.2019.03.005
210. E. Boros, O Cepek, and V. Gurvich: Separable Discrete Functions: Recognition and Sufficient Conditions. Discrete Mathematics, 342 (5), pp. 1275-1292, May 2019. https://doi.org/10.1016/i.disc.2018.12.026
211. E. Boros, V. Gurvich, and M. Milanic: Decomposing 1-Sperner Hypergraphs, Electronic Journal of Combinatorics, 16(3), \#P3.18, July 2019. https://www.combinatorics.org/ojs/index.php/eljc/article/view/v26i3p18
212. E. Boros, Y. Crama and E. Rodríguez-Heck: Compact quadratizations for pseudo-Boolean functions, Journal of Combinatorial Optimization, 39, pp. 687-707, January 2020. https://doi.org/10.1007/s10878-019-00511-0
213. E. Boros, V. Gurvich, B. Ho, and K. Makino: On the Sprague-Grundy Function of Extensions of Proper Nim, International Journal of Game Theory, January 21, 2020. https://doi.org/10.1007/s00182-020-00707-3
214. E. Boros, V. Gurvich and M. Milanic: Characterizing and decomposing classes of threshold, split and bipartite graphs via 1-Sperner hypergraphs, Journal of Graph Theory, 94(3), pp. 364-397, July 2020. https://doi.org/10.1002/igt. 22529
215. K. Bérczi, E. Boros, O. Cepek, P. Kučera, and K. Makino: Approximating minimum representations of key Horn functions, SIAM Journal on Computing, accepted, August 2020.
216. K. Bérczi, E. Boros, O. Čepek, K. Elbassioni, P. Kučera, K. Makino: Generating clause sequences of a CNF formula, Theoretical Computer Science, Volume 856, 8 February 2021, Pages 68-74. https://doi.org/10.1016/j.tcs.2020.12.021

