

ДРУГИ научни активности

на доц. д-р Евгения Д. Попова

Поканени доклади

1. International Dagstuhl Seminar No. 08021, 06-11.01.2008, Dagstuhl, Germany.
E. D. Popova: On the Interoperability between Interval Software.
<http://www.dagstuhl.de/Materials/index.en.phtml?08021>
2. Dagstuhl seminar 11371, Sept. 11-16, 2011, Schloss Dagstuhl, Germany.
E. Popova, Characterizing AE Solution Sets to Parametric Linear Systems.
<http://www.dagstuhl.de/mat/index.en.phtml?11371>
3. 15th GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic and Verified Numerical Computations, September 23–29, 2012, Novosibirsk, Russia.
Пленарен доклад: Evgenija D. Popova, Properties and Estimations of Parametric AE Solution Sets. http://conf.nsc.ru/scan2012/scan2012_-30

Доклади в чуждестранни университети

1. University of Würzburg, Germany, Seminar MIDAS, 27.7.1998. E. Popova, Introduction to Directed Interval Arithmetic.
2. University of Würzburg, Germany, Informatics Colloquium at Lehrstuhl für Informatik II, 30.7.1998. E. Popova: Interaction between Computer Algebra and Numerical Analysis.
3. University Paris VI, France, May 1999. E. Popova: Improving the Quality of Computations, based on Interval Arithmetic.
4. Bosphorus University, Istanbul, Turkey, Mathematics Dept., seminar “Mathematical Matters”, November 10, 1999. Popova, E.: Interaction between Computer Algebra and Interval Arithmetic.
5. University of Würzburg, Germany, Informatics Colloquium at Lehrstuhl für Informatik II, 26.09.2000, E. Popova, The Impact of Computer Algebra on Interval Computations.
6. Bergische Universität Wuppertal, Germany, Seminar 07.530 Wissenschaftliches Rechnen/Softwaretechnologie (17.06.2003, 15.15 Uhr, Raum G 15.25)
Popova, E.: Communication Chain C-XSC -> Mathematica -> Web.
7. Bergische Universität Wuppertal, Germany, Seminar 07.530 Wissenschaftliches Rechnen/Softwaretechnologie (26.06.2003, 15.15 Uhr, Raum G 15.20)
Popova, E.: Solving Parametric Interval Linear Systems. Part I: General Settings. Examples. Fixed-Point Iteration. Software.
8. Bergische Universität Wuppertal, Germany, Seminar 07.530 Wissenschaftliches Rechnen/Softwaretechnologie (01.07.2003, 15.15 Uhr, Raum G 15.25)
Popova, E.: Solving Parametric Interval Linear Systems. Part II: Solution Based on Monotonicity and A Hybrid Approach.
9. Bauchaus University, Weimar, Germany, July 21, 2004. Popova, E.: Interval Arithmetic, a Tool for Verified Computing and Modeling with Uncertain Data.

10. Bergische Universität Wuppertal, Germany, Seminar 07.530 Wissenschaftliches Rechnen/Softwaretechnologie (13.05.2004, 11 Uhr, Raum G 15.20)
Popova, E.: Strong Regularity of Parametric Interval Matrices.
11. Bergische Universität Wuppertal, Germany, Seminar 07.530 Wissenschaftliches Rechnen/Softwaretechnologie (18.05.2004, 16 Uhr, Raum G 15.25)
Popova, E.: Generalised Interval Arithmetic.
12. Bergische Universität Wuppertal, Germany, CM.523, CM.946 Wissenschaftliches Rechnen/Softwaretechnologie (12.10.2006, 14 Uhr c.t., Raum G 15.25)
E.D. Popova: Visualization of Parametric Solution Sets.
13. Bergische Universität Wuppertal, Germany, CM.523, CM.946 Wissenschaftliches Rechnen/Softwaretechnologie (17.10.2006, 14 Uhr c.t., Raum G 15.34)
E.D. Popova: Computer-Aided Proofs in Solving Linear Parametric Problems.
14. Bergische Universität Wuppertal, Germany, Seminar 081MAT522000 "Wissenschaftliches Rechnen/Softwaretechnologie", 27.05.2008. E. D. Popova: Efficient Parametric Linear Solvers for Problems with Fixed Data Dependencies.
15. Bergische Universität Wuppertal, Germany, (Halbtagiger Workshop zu C-XSC), Seminar "Wissenschaftliches Rechnen/Softwaretechnologie", (29.10.2009, 14 Uhr c.t., Raum G.15.34)
E. Popova, Communication between C-XSC and Mathematica.
16. Bergische Universität Wuppertal, Germany, Seminar "Wissenschaftliches Rechnen/Softwaretechnologie", 01.06.2010, 17:00 Uhr (Raum G.15.34)
E. Popova, Improved Fourier-Motzkin Characterization of Parametric Solution Sets.

Доклади на международни научни форуми

1. 9th IFAC/IFORS Symposium on Identification and System Parameter Estimation, Budapest, Hungary, 1991.
2. Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, Vienna, 1993. (Travel Grant)
3. Advances in Numerical Methods and Applications, O(h)3, Sofia, 1993.
4. Numerical Analysis with Automatic Result Verification, Lafayette, USA, 1993.
5. Hellenic European Research on Mathematics & Informatics, HERMIS'94, Athence, Greece, 1994.
6. First Int. Conference "Real Numbers and Computers", Saint-Etienne, France, 1995. (Travel Grant)
7. Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, Wuppertal, Germany, 1995. (Travel Grant)
8. Interval'96: Int. Conference on Interval Methods and Computer Aided Proofs in Science and Engineering, Wuerzburg, Germany, 1996. (Travel Grant)
9. Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, Lion, France, 1997. (Travel Grant)

10. 15th IMACS World Congress on Scientific Computation, Modelling and Applied Mathematics, Berlin, Germany, 1997.
11. III-rd International Conference "Real Numbers and Computers", Paris, April 27–29, 1998. (Travel Grant)
12. NATO Advanced Study Institute "Error Control & Adaptivity in Scientific Computing", Antalya, Turkey, 1998. (Travel grant)
13. MISC'99: Workshop on Applications of Interval Analysis to Systems and Control, Girona, Spain, 1999. (Travel grant)
14. Intern. Workshop "Reliable Computing and Interval Arithmetic", 27-29.09.1999, Sozopol, Bulgaria. E. Popova, Combining Computer Algebra and Interval Arithmetic to Solving Linear Systems with Imprecise Dependent Input Data.
15. Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, Karlsruhe, Germany, 2000. (Travel grant)
16. II-nd Conference on Informatics & Information Technology; 20-23.12.2001, Bitolja, Macedonia.
17. MMSC within the 30st Spring Conference of the Union of Bulgarian Mathematicians, April 2001, Borovets.
18. Workshop "CSE: Education & Research", February 27, 2002, Sofia.
19. MMSC within the 31st Spring Conference of the Union of Bulgarian Mathematicians, April 3-6, 2002, Borovets.
20. SCAN/Interval 2002, Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, Sept. 23-28, 2002, Paris. E. Popova, Parametric Interval Linear Solver.
21. Spring 2003 SCOPES project Meeting March 8-12, 2003, Ohrid, Macedonia. Popova, E.: COSE Server: Present State and Perspectives.
22. LSSC, Sozopol, 2003. Popova, E.; Datcheva, M.; Iankov, R.; Schanz, T.: Sharp Bounds for Strains and Stresses in Uncertain Mechanical Models.
23. IKM'2003, 16th International Conference on the Applications of Computer Science and Mathematics in Architecture and Civil Engineering, June 10-12, 2003, Weimar, Germany. Popova, E.; Datcheva, M.; Iankov, R.; Schanz, T.: Mechanical Models with Interval Parameters.
24. Fall 2003 SCOPES project Meeting September 6-10, 2003, Blagoevgrad. Krämer, W.; Popova, E.: Software Tools for Verified Computing and Modelling with Uncertain Data.
25. 4th Internat. Conf. Information and Information Technology, Bitola, December 11-14, 2003. Popova, E.: Communication Chain C-XSC -> Mathematica -> Web.
26. 75th Annual Sci. Conference of GAMM, Dresden, March 21-27, 2004. Popova, E.: Improving the Parametric Fixed-Point Iteration.
27. 75th Annual Sci. Conference of GAMM, Dresden, March 21-27, 2004. Kraemer, W., Popova, E.: Zur Berechnung von verlässlichen Außen- und Inneneinschließungen bei parameterabhängigen linearen Gleichungssystemen.

28. SCAN 2004. Kraemer, W., Popova, E.: Inner and Outer Bounds for the Solution Set of Parametric Linear Systems,
29. 76th Annual Sci. Conference of GAMM, Luxemburg, March 28- April 1, 2005. Popova, E.: Web Accessible CA Tools for Solving Interval Linear Systems.
30. 5th International Conference on "Large-Scale Scientific Computations", June 6-10, 2005, Sozopol, Bulgaria. Evgenija D. Popova, Improved Solution Enclosures for Over- and Underdetermined Interval Linear Systems.<http://parallel.bas.bg/Conferences/SciCom05/program.pdf>
31. Second NSF Workshop on Reliable Engineering Computing, Savannah, Georgia USA, Feb. 22-24, 2006. E. D. Popova, R. Yankov, Z. Bonev: Bounding the Response of Mechanical Structures with Uncertainties in all the Parameters.
<http://www.gtsav.gatech.edu/workshop/rec06/participants.html>
32. 12th International Conf. on Applications of Computer Algebra, June 26-29, 2006, Varna, Bulgaria. E. D. Popova: Visualization of Parametric Solution Sets.
<http://www.math.bas.bg/~epopova/ACA2006/>
33. 16th International Conference NM&A, August 20-24, 2006, Borovets, Bulgaria. E. D. Popova: Solving Linear Systems whose Input Data are Rational Functions of Interval Parameters. http://www.fmi.uni-sofia.bg/nma06/sess5_uncertain.html
34. 12th GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, Duisburg, 26 - 29 September 2006. E. D. Popova: Computer-Assisted Proofs in Solving Parametric Linear Problems.
<http://scan2006.uni-due.de/schedule.php?day=fri>
35. 14th International Conference on Applications of Computer Algebra, July 27-30, 2008, RISC Institute, Castle of Hagenberg, Linz, Austria. E. D. Popova: Explicit Characterization of a Class of Parametric Solution Sets. <http://www.math.bas.bg/~epopova/ACA2008/>
36. 16th International Conference on Applications of Computer Algebra, June 24-27, 2010, Vlora, Albania. E. D. Popova, W. Krämer, M. Russev: Embedding C-XSC Automatic Differentiation in Mathematica.
<http://aca2010.info/index.php/aca2010/aca2010/schedConf/presentations>
37. 3rd Internat. Congress on Mathematical Software, ICMS 2010, Kobe, Japan, September 13–17, 2010. Popova, E., Krämer, W.: Communicating Functional Expressions from Mathematica to C-XSC.
38. SCAN 2010: 14th GAMM-IMACS Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, ENS Lyon, France, September 27-30, 2010. E. Popova: Characterization of Parametric Solution Sets. <http://scan2010.ens-lyon.fr/list-of-abstracts.html>
39. SCAN 2010: 14th GAMM-IMACS Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, ENS Lyon, France, September 27-30, 2010. Popova, E., Kraemer, W., Embedding of C-XSC nonlinear problem solvers in Mathematica.
40. SCAN 2010: 14th GAMM-IMACS Int. Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, ENS Lyon, France, September 27-30, 2010. M. Zimmer, W. Krämer, E. Popova, Sparse matrices in C-XSC and their application in solvers for parametric linear systems.

41. Small Workshop on Interval Methods, SWIM2012, 4-6 June 2012, Oldenburg, Germany. Evgenija D. Popova, Properties and Estimations of Parametric AE Solution Sets. <http://hs.informatik.uni-oldenburg.de/swim2012/#program>
42. Intern. Conference on Mathematical Methods and Models in Biosciences (BIOMATH 2012), Sofia, 17-22 June 2012. Evgenija D. Popova, Unbounded Parametric Tolerable Solution Sets. <http://www.biomath.bg>
43. 18th International Conference on Applications of Computer Algebra (ACA 2012) June 25–28, 2012, Sofia, Bulgaria. E. D. Popova, Explicit description of quasi-symmetric solution set: computer-assisted proof. <http://www.math.bas.bg/ACA2012/>

Доклади на национални форуми и семинари у нас

1. 33rd Spring Conference of the Union of Bulgarian Mathematicians, April 1-4, 2004, Borovets. Popova, E.: Strong Regularity of Parametric Interval Matrices.
2. 33rd Spring Conference of the Union of Bulgarian Mathematicians, April 1-4, 2004, Borovets. R. Iankov, E. Popova, M. Datcheva, T. Schanz: Numerical Modeling of Consolidation with Uncertainty in Soil Properties.
3. "Data Bases and Knowledge Data Bases", Seminar of Dept. Information Systems, FMI at SU, Gjuletschica, 28–30 May 2004. Popova, E.: Internet Accessible Mathematical Computations at cose.math.bas.bg
4. Научна сесия на Университета в Русе, 29-30.10.2004. Iankov, R.; Popova, E.; Datcheva, M.; Schanz, T.: Modelling a cavity expansion problem under uncertainties.
5. 34th Spring Conference of the Union of Bulgarian Mathematicians, April 6-9, 2005, Borovets. Popova, E.; Ivanova, M.: Scientific Visualization: интерактивни графични уеб услуги.
6. 10th National Congress of Theoretical and Applied Mechanics, Varna 13–16 Sept., 2005. Iankov, R.; Popova, E.; Datcheva, M.; Schanz, T.: Numerical Modeling of Linear Elastic Problems with Interval Parameters.
7. International Conference 60 years Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, July 6 - 8, 2007, Sofia, Bulgaria. E. D. Popova: Explicit Characterization of a Class of Parametric Solution Sets.
8. E. Popova, L. Kolev, W. Krämer, Two Approaches to Linear Systems Involving Complex Interval Parameters, Int. Workshop on Mathematical Modelling and Scientific Computing, Sept. 23-26, 2009, Velingrad, Bulgaria.
9. 6th Annual Meeting of the Bulgarian Section of SIAM, December 21-22, 2011, Sofia. Popova, E., Describing the United Solution Set to Linear Systems with Symmetric Interval Matrix.
10. Annual report session of section "Biomathematics" at IMI, 15.12.2000, E. Popova, Quality of the solution set of parameter-dependent interval linear systems.
11. Annual report session of section "Biomathematics" at IMI, 17.12.2001, E. Popova, Exact Bounds for the Solutions of Parametric Linear Systems with Uncertain data.

12. Annual report session of section "Biomathematics" at IMI, 17.12.2001, E. Popova, S. Markov, The Project "Establishing CSE in BG and MK".
13. Annual report session of section "Biomathematics" at IMI, 2002, E. Popova (IMI): Modeliranje s krajni elementi v uslovija na neopredelenost - novi izchislitelni sredstva i WEB-bazirani resursi
14. Seminar "Scientific Computations and Biomathematics" at IMI, BAS, 23.06.2004, M. Ivanova, E. Popova: Scientific Visualization – a site for visualization of functions and data.
15. Seminar "Scientific Computations and Biomathematics", 20.04.2005, Evgenija D. Popova, Improved Solution Enclosures for Over- and Underdetermined Interval Linear Systems.
16. Annual report session of section "Biomathematics" at IMI, 15.12.2005, IMI, block 8, room 164, E. Popova, Solving Linear Systems Whose Coefficients are Rational Functions of Interval Parameters.
17. Annual report session of section "Biomathematics" at IMI, 20.12.2006, IMI, block 8, room 503, R. Surilov, E. Popova: Visualization of parametric solution sets.
18. Annual report session of section "Biomathematics" at IMI, 12.12.2007, IMI, block 8, room 403, E. Popova, J. Garloff: Estimation of the parameter set for exponential sums.
19. Annual report session of section "Biomathematics" at IMI, 17.12.2008, IMI, block 8, room 403, E. Popova, Solving parametric linear systems by Bernstein enclosure of polynomial ranges.
20. Annual report session of section "Biomathematics" at IMI, 16.12.2009, IMI, block 8, room 503, E. Popova, M. Русев, Комуникация между Mathematica и C-XSC (DFG проект).
21. Annual report session of section "Biomathematics" at IMI, 15.12.2010, IMI, block 8, room 503, 16:30, E. Popova, AE Solution Sets to a Class of Parameter Dependent Linear Systems.
22. Annual report session of section "Biomathematics" at IMI, 14.12.2011, IMI, block 8, room 578, E. Popova, Explicit Description of Parametric AE Solution Sets.
23. Семинар по "Научни изчисления и биоматематика", ИМИ-БАН, 24 април, 2012, Е. Попова, Интервални методи и софтуер за линейни параметрични задачи с неточни данни.