Всички цитати

- **Звено: (ИИКТ) Институт по информационни и комуникационни технологии**
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Брой цитирани публикации: 53	Брой цитиращи източници: 289

1994

1. Dimov, I.**, Karaivanova, A.**. Overconvergent Monte Carlo Methods for density-function modeling using B-splines. in: Advances in Num. Methods and Appl., Proceedings of the Third International Conference on Numerical Methods and Applications, eds. I. T. DImov, Bl. Sendov, P.S. Vassilevski, World Scientific , Singapore, 1994, ISBN:978-981-4550-28-4 (e-book), DOI:10.1142/2509, 85-93

Цитира се в:

1. Sofiya Ivanovska, Monte Carlo Method for Reconstruction of Densities, Pliska Studia Mathematica Bulgarica, Volume 16, 2004, 55-64., **@2004**

2. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

3. Isaak Sonin, Consensus algorithms and Decompostion-Separation Theorem, abstract, , **@2016**

1995

2. Kuchen, H., Stoltze, H., Dimov, I.**, Karaivanova, A.**. Distributed Memory Implementation of Elliptic Partial Differential Equations in a Data parallel Functional Language. Proceedings of the International Conference on Programming Models for Massively Parallel Computers, IEEE Computer Society Press, 1995, DOI:10.1109/PMMPC.1995.504352, 142-150

Цитира се в:

4. H.G. Botorog, High-Level Parallel Programming and the Efficient Implementation of Numerical Algorithms, PhD Thesis, Von der Mathematisch-Naturwissenschaftlichen Fakultät der Rheinisch-Westfälischen Technischen Hochschule Aachen, D82, 1998, Aachen., Theoretical Computer Science, Volume 196, Issue 1-2, 6 April 1998, Pages 71-10, DOI: 10.1016/S0304-3975(97)00196-5., **@1998**

1996

3. Dimov, I.**, Karaivanova, A.**. A Fast Monte Carlo Method for Matrix Computations. Iterative Methods in Linear Algebra II (S. Margenov and P. Vassilevski Eds.), 3, IMACS Series in Computational and Applied Mathematics, 1996, 204-215

Цитира се в:

5. Bekaert, P., Hierarhical and Stochastic Algorithms for Radiosity, PhD Thesis, KATHOLIEKE UNIVERSITEIT LEUVEN, FACULTY OF SCIENCE, FACULTY OF ENGINEERING, DEPARTMENT OF COMPUTER SCIENCE, Celestijnenlaan 200A – B-3001 Heverlee – Belgium, 1999, **@1999**

4. Dimov, I. T.**, Karaivanova, A.**, Kuchen, H., Stoltze, H.. Monte Carlo Algorithms for Elliptic Differential Equations. Data Parallel Functional Approach. Parallel Algorithms and Applications, 9, 1-2, Taylor & Francis Group, 1996, ISSN:1063-7192, DOI:10.1080/10637199608915563, 39-65

Цитира се в:

6. Hammond, K., Michaelson, G., Research directions in parallel functional programming. Springer Science & Business Media, 1999, ISBN 978-1-4471-0841-2., **@1999**

7. Beebe, N. H. (2014). A Complete Bibliography of Publications in Parallel Algorithms and Applications., **@2014**

1997

5. Dimov, I., **Karaivanova, A.**. Iterative Monte Carlo algorithms for linear algebra problems. Numerical Analysis and Its Applications (L. Vulkov, J. Wasniewski, P. Yalamov Eds.), 1196, LNCS Springer-Verlag, 1997, ISSN:978-3-540-62598-8, DOI:10.1007/3-540-62598-4_89, 150-160. SJR:0.295

Цитира се в:

8. Vajargah, B. F. Monte Carlo Algorithms for Solving Linear Systems. (2005), Journal of Applied Mathematics, Islamic Azad University, Lahijan, Volume 2 , Number 5; Page(s) 58 To 49. ISSN: 2251-7286, **@2005**

9. Vajargah, B. F., & Vajargah, K. F. (2006). Parallel Monte Carlo computations for solving SLAE with minimum communications. Applied mathematics and computation, 183(1), 1-9. DOI: 10.1016/j.amc.2006.02.058, **@2006**

10. Vajargah, B. F., & Vajargah, K. F. (2007). Monte Carlo Method for Finding the Solution of Dirichlet Partial Differential Equations. Applied Mathematical Sciences, 1(10), 453-462., **@2007**

11. Vajargah, B. F. (2007). COMPARING TWO STOCHASTIC METHODS FOR SOLVING LINEAR SYSTEMS. INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, 20(4), 439., **@2007**

12. Vajargah, B. F. (2007). COMPUTATIONAL PERFORMANCES OF NEW MONTE CARLO ALGORITHM IN COMPARISON TO SPAI PRECONDITIONER FOR SOLVING LINEAR SYSTEMS. INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, 20(4), 427., **@2007**

13. Vajargah, B. F., Gharehdaghi, M., & Rasht, I. R. A. N. (2009). NEW EFFICIENT GRADIENT MONTE CARLO ALGORITHM FOR SOLVING LINEAR SYSTEMS AND ITS IMPROVEMENT. International Journal of Applied Mathematics, 22(4), 561-571., **@2009**

14. Fathi Vajargah, B., & Mehrdoust, F. (2011). Partitioning Inverse Monte Carlo Iterative Algorithm for Finding the Three Smallest Eigenpairs of Generalized Eigenvalue Problem. Advances in Numerical Analysis, 2011., **@2011**

15. Mehrdoust, F. (2012). On Finding the Smallest Generalized Eigenpair Using Markov Chain Monte Carlo Algorithm. Applied Mathematics, 3(06), 594., **@2012**

16. Horvat, E. A., & Zweig, K. A. (2014). Multiplex Networks. Encyclopedia of Social Network Analysis and Mining, 1019-1023., **@2014**

17. Gupta, A., & Kumaraguru, P. (2014). Misinformation in Social Networks, Analyzing Twitter During Crisis Events. Encyclopedia of Social Network Analysis and Mining, 922-931., **@2014**

18. Khoury, R., Khoury, R., & Hamou-Lhadj, A. (2014). Microtext Processing. In Encyclopedia of Social Network Analysis and Mining (pp. 894-904). Springer New York., **@2014**

19. Torenvlied, R., & Akkerman, A. (2014). Managerial Networking. Encyclopedia of Social Network Analysis and Mining, 845-848., **@2014**

20. Obradović, D. (2014). Mining Trends in the Blogosphere. Encyclopedia of Social Network Analysis and Mining, 915-921., **@2014**

21. Brugere, I., Gunturi, V. M., & Shekhar, S. (2014). Modeling and Analysis of Spatiotemporal Social Networks. In Encyclopedia of Social Network Analysis and Mining (pp. 950-960). Springer New York., **@2014**

22. Li, Z., & Xiong, H. (2014). Mining Blackhole and Volcano Patterns for Fraud Detection. In Encyclopedia of Social Network Analysis and Mining (pp. 904-915). Springer New York., **@2014**

23. Magnani, M., & Rossi, L. (2014). Multiple Social Networks, Data Models and Measures for. In Encyclopedia of Social Network Analysis and Mining (pp. 1013-1019). Springer New York., **@2014**

24. Cheng, C. M., & Jin, X. Q. (2014). Matrix Decomposition. Encyclopedia of Social Network Analysis and Mining, 880-890., **@2014**

25. Ferrara, E. (2014). Measurement and Analysis of Online Social Networks Systems. In Encyclopedia of Social Network Analysis and Mining (pp. 891-893). Springer New York., **@2014**

26. Mehrdoust, F., Markov Chain Monte Carlo Model, Encyclopedia of Social Network Analysis and Mining, 2014, 857-870. Springer New York. DOI: 10.1007/978-1-4614-6170-8_150. ISBN: 978-1-4614-6169-2., **@2014**

27. Desertot, M., Lecomte, S., & Thilliez, M. (2014). Mobile-and Context-Aware Applications of Social Networks. Encyclopedia of Social Network Analysis and Mining, 931-940., **@2014**

28. Al-Shiridah, G., Safar, M., & Mahdi, K. (2014). Mobile Communication Networks. In Encyclopedia of Social Network Analysis and Mining (pp. 940-950). Springer New York., **@2014**

29. Singh, L., & Mann, J. (2014). Modeling Social Preferences Based on Social Interactions. In Encyclopedia of Social Network Analysis and Mining (pp. 963-969). Springer New York., **@2014**

30. Smith, M. A. (2014). Mapping Online Social Media Networks. Encyclopedia of Social Network Analysis and Mining, 848-857., **@2014**

31. Badawi, A. (2014). Matrix Algebra, Basics of. Encyclopedia of Social Network Analysis and Mining, 870-880., **@2014**

32. Juszczyszyn, K. (2014). Motif Analysis. In Encyclopedia of Social Network Analysis and Mining (pp. 983-989). Springer New York., **@2014**

33. Gonçalves, P. (2014). Modeling of Business Processes and Crisis Management. In Encyclopedia of Social Network Analysis and Mining (pp. 960-963). Springer New York., **@2014**

6. **Karaivanova, A.**. Adaptive Monte Carlo methods for numerical integration. Mathematica Balkanica, 11, 3-4, 1997, 391-406

Цитира се в:

34. E. Atanassov, I. T. Dimov, A new optimal MCM for calculating integrals of smooth functions, Monte Carlo Methods and Applications. Volume 5, Issue 2, Pages 149–168, ISSN (Online) 1569-3961, ISSN (Print) 0929-9629, DOI: 10.1515/mcma.1999.5.2.149, //1999, **@1999**

35. Georgieva, R., Ivanovska, S. Importance separation for solving integral equations (2004) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2907, pp. 144-152, **@2004**

36. I.T. Dimov, A.A. Penzov, and S.S. Stoilova, Parallel Monte Carlo Approach for Integration of the Rendering Equation, NMA2006 (T. Boyanov et al., Eds.), LNCS 4310, Springer, 2007, pp. 140–147., **@2007**

37. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

38. Dimov, I., Georgieva, R., Monte Carlo algorithms for evaluating Sobol'sensitivity indices, Math and Comp. in Simulation, Vol. 81, Issue 3, 2010, pp. 506-514, **@2010**

39. Райна Георгиева, докторска дисертация, „Изчислителна сложност на алгоритми Монте Карло за многомерни интеграли и интегрални уравнения", Автор: Райна Георгиева, Година: 2010, **@2010**

40. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017, **@2017**

1998

7. Dimov, I.**, Karaivanova, A.**, Yordanova, P.. Monte Carlo Algorithms for Calculating Eigenvalues. Monte Carlo and Quasi-Monte Carlo Methods 1996, Lecture Notes in Statistics, 127, Springer New York, 1998, ISBN:978-0-387-98335-6; O, DOI:10.1007/978-1-4612-1690-2_12, 205-220. SJR:0.111

Цитира се в:

41. Тодор Гюров, докторска дисертация, „Монте Карло алгоритми за някои задачи за пренос", Автор: Тодор Гюров, Година: 1999, **@1999**

42. Gallagher, R. (2001). Finding steady state of safety systems using the Monte Carlo method. In Computational Science—ICCS 2001 (pp. 1253-1261). Springer Berlin Heidelberg., **@2001**

43. Christian Weihrauch, Performance Analysis for Parallel Monte Carlo Algorithms for Linear Algebra Problems, Dissertation, School of Systems Engineering, University of Reading, UK, June 2008, **@2008**

44. Blanchet, J., Glynn, P., Zheng, S., Analysis of a Stochastic Approximation Algorithm for Computing Quasi-stationary Distributions. arXiv preprint arXiv:1401.0364 (2014)., **@2014**

45. Zheng, Shuheng. Stochastic Approximation Algorithms in the Estimation of Quasi-Stationary Distribution of Finite and General State Space Markov Chains. Diss. COLUMBIA UNIVERSITY, 2014., **@2014**

46. Blanchet, J., Glynn, P., Zheng, S., Analysis of a Stochastic Approximation Algorithm for Computing Quasi-stationary Distributions, Advances in Applied Probability, Volume 48, Issue 3, September 2016, Pages 792-811, DOI: https://doi.org/10.1017/apr.2016.28, ISSN:0001-8678, E-ISSN:1475-6064, SJR(2016) 1.159 (SCOPUS), **@2016**

47. Lek-Heng Lim and Jonathan Weare, Fast Randomized Iteration: Diffusion Monte Carlo through the Lens of Numerical Linear Algebra, SIAM Revew, 59(3), 547–587 ISSN (print): 0036-1445, ISSN (online): 1095-7200, DOI: https://doi.org/10.1137/15M1040827 SJR(2017): 2.273, , IF (2016) : 4.897, **@2017**

8. **Karaivanova, A.**, Dimov, I. T.. Error analysis of an adaptive Monte Carlo method for numerical integration. Mathematics and Computers in Simulation, 47, 2-5, Elsevier, 1998, ISSN:0378-4754, DOI:10.1016/S0378-4754(98)00103-7, 201-213. ISI IF:0.949

   Цитира се в:

   48. Xiuyun, M, Error sources analysis of the control system of a rocket and parameters' optimization, Proceedings of the Int. Symposium on Test and Measurement 2, 2001, pp 1297-1300., **@2001**

   49. Yaohang Li, PhD dissertation, A Grid Computing Representation for Monte Carlo Applications, 2003, **@2003**

   50. Georgieva, R., & Ivanovska, S. (2004). Importance separation for solving integral equations. In Large-Scale Scientific Computing (pp. 144-152). Springer Berlin Heidelberg., **@2004**

   51. Sirola, N., Piché, R., & Pesonen, H. (2005, March). Numerical integration methods in local positioning. In WPNC/UET'05 Joint 2nd Workshop on Positioning, Navigation and Communication 2005 & 1st Ultra-Wideband Expert Talk 2005, 17th March 2005, Hannover, Germany., **@2005**

   52. Li, X., Yang, J., & Zhu, Y. (2006). Digitally reconstructed radiograph generation by an adaptive Monte Carlo method. Physics in medicine and biology, 51(11), 2745., **@2006**

   53. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

   54. Alrefaei, M. H., & Abdul-Rahman, H. M. (2008). An adaptive Monte Carlo integration algorithm with general division approach. Mathematics and Computers in Simulation, 79(1), 49-59., **@2008**

   55. 马修水, 费业秦, 李光, 张梅, & 李贤义. (2008). 坐标测量机动态测量不确定度评定研究. 仪器仪表学报, 29(10), 2146-2149. Translation: Matthew water fee industry Qin, Li, Zhang Mei, & Lee Yin Yee. (2008). Dynamic Measurement Uncertainty of CMM assessment studies. Instrumentation Technology, 29 (10), 2146-2149., **@2008**

   56. 杨蕴石, 王颖, 吕科, & 赵亚伟. (2008). 贷款组合信用风险模拟的简化方法. 计算机仿真, 5, 070. Translation: Yang Yun Shi, Wang Ying, Lvke, & Zhao Yawei. (2008) Simplified method of loan portfolio credit risk modeling simulation, 5, 070., **@2008**

   57. M. Kalos, P. Whitlock, Monte Carlo Methods, Second Revised and Enlarged Edition, Wiley-VCH, 2008, **@2008**

   58. Alrefaei, M.H., Abdul-Rahman, An adaptive MC integration algorithm with general division approach, H.M., Mathematics and Computers in Simulation 79 (1), 2008, pp. 49-59 (IF: 0.946), **@2008**

   59. Vajargah, B. F., Mehrdoust, F., Pourdarvish, A., & Norouzi, F. (2010). Some Advantages on Monte Carlo Integration using Variance Reduction Procedures. International Journal of Advanced Research in Computer Science. vol. 1, No 4, Nov-Dec 2010 ISSN: 0976-5697, **@2010**

   60. Mehrdoust, F., Pourdarvish, A., Norouzi, F., Vajargah, B. F., & Saziroud, F. N. (2010). Some advantages on Monte Carlo integration using variance reduction procedures. International Journal of Advanced Research in Computer Science, 1(4)., **@2010**

   61. Hronkovič, J., Kubliha, M., Minárik, S., Bošák, O., Tóth, M., & Kalužný, J. (2010). Monte Carlo Simulation of the Electrical Conductivity of Rubber Compounds During Silanization. Research Papers Faculty of Materials Science and Technology Slovak University of Technology, 18(28), 9-15., **@2010**

   62. Райна Георгиева, докторска дисертация, „Изчислителна сложност на алгоритми Монте Карло за многомерни интеграли и интегрални уравнения", Автор: Райна Георгиева, Година: 2010, **@2010**

   63. Mehrdoust, F., Monte Carlo simulation for numerical integration based on antithetic variance reduction and Halton's sequences Journal of Mathematics and Computer Science Vol. 4 No.1 (2012) 48 - 52, **@2012**

   64. Perkó, Z., Sensitivity and Uncertainty Analysis of Coupled Reactor Physics Problems: Method Development for Multi-Physics in Reactors, PhD Thesis, TU Delft, Delft University of Technology, Delft, The Netherlands, 2015. ISBN: 978-94-6295-071-9. Doi:10.4233/uuid:2a55e581-acc0-4cbf-a8cf-9675986b9a0c., **@2015**

   65. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017, **@2017**

9. Dimov, I., Aleksandrov, V., **Karaivanova, A.**. Implementation of Monte Carlo algorithms for eigenvalue problem using MPI. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 1497, Springer, 1998, ISBN:978-3-540-65041-6, DOI:10.1007/BFb0056594, 346-353. SJR:0.34

   Цитира се в:

   66. Vajargah, B. F., & Mehrdoust, F. (2011). Quasi Monte Carlo algorithm for computing smallest and largest generalised eigenvalues. ANZIAM Journal, 52, 41-58., **@2011**

   67. Dikmese, S., Wong, J. L., Gokceoglu, A., Guzzon, E., Valkama, M., & Renfors, M. (2013, July). Reducing computational complexity of eigenvalue based spectrum sensing for cognitive radio. In Cognitive Radio Oriented Wireless Networks (CROWNCOM), 2013 8th International Conference on (pp. 61-67). IEEE., **@2013**

68. Kanu, I. D. (2013). Formulated Algorithm for Computing Dominant Eigenvalue and the Corresponding Eigenvector. Int. J. Contemp. Math. Sciences, 8(19), 899-910., **@2013**

69. Horvat, E. A., & Zweig, K. A. (2014). Multiplex Networks. Encyclopedia of Social Network Analysis and Mining, 1019-1023., **@2014**

70. Gupta, A., & Kumaraguru, P. (2014). Misinformation in Social Networks, Analyzing Twitter During Crisis Events. Encyclopedia of Social Network Analysis and Mining, 922-931., **@2014**

71. Khoury, R., Khoury, R., & Hamou-Lhadj, A. (2014). Microtext Processing. In Encyclopedia of Social Network Analysis and Mining (pp. 894-904). Springer New York., **@2014**

72. Torenvlied, R., & Akkerman, A. (2014). Managerial Networking. Encyclopedia of Social Network Analysis and Mining, 845-848., **@2014**

73. Obradović, D. (2014). Mining Trends in the Blogosphere. Encyclopedia of Social Network Analysis and Mining, 915-921., **@2014**

74. Brugere, I., Gunturi, V. M., & Shekhar, S. (2014). Modeling and Analysis of Spatiotemporal Social Networks. In Encyclopedia of Social Network Analysis and Mining (pp. 950-960). Springer New York., **@2014**

75. Li, Z., & Xiong, H. (2014). Mining Blackhole and Volcano Patterns for Fraud Detection. In Encyclopedia of Social Network Analysis and Mining (pp. 904-915). Springer New York., **@2014**

76. Magnani, M., & Rossi, L. (2014). Multiple Social Networks, Data Models and Measures for. In Encyclopedia of Social Network Analysis and Mining (pp. 1013-1019). Springer New York., **@2014**

77. Cheng, C. M., & Jin, X. Q. (2014). Matrix Decomposition. Encyclopedia of Social Network Analysis and Mining, 880-890., **@2014**

78. Ferrara, E. (2014). Measurement and Analysis of Online Social Networks Systems. In Encyclopedia of Social Network Analysis and Mining (pp. 891-893). Springer New York., **@2014**

79. Mehrdoust, F., Markov Chain Monte Carlo Model, Encyclopedia of Social Network Analysis and Mining, 2014, 857-870. Springer New York. DOI: 10.1007/978-1-4614-6170-8_150. ISBN: 978-1-4614-6169-2., **@2014**

80. Desertot, M., Lecomte, S., & Thilliez, M. (2014). Mobile-and Context-Aware Applications of Social Networks. Encyclopedia of Social Network Analysis and Mining, 931-940., **@2014**

81. Al-Shiridah, G., Safar, M., & Mahdi, K. (2014). Mobile Communication Networks. In Encyclopedia of Social Network Analysis and Mining (pp. 940-950). Springer New York., **@2014**

82. Singh, L., & Mann, J. (2014). Modeling Social Preferences Based on Social Interactions. In Encyclopedia of Social Network Analysis and Mining (pp. 963-969). Springer New York., **@2014**

83. Smith, M. A. (2014). Mapping Online Social Media Networks. Encyclopedia of Social Network Analysis and Mining, 848-857., **@2014**

84. Badawi, A. (2014). Matrix Algebra, Basics of. Encyclopedia of Social Network Analysis and Mining, 870-880., **@2014**

85. Juszczyszyn, K. (2014). Motif Analysis. In Encyclopedia of Social Network Analysis and Mining (pp. 983-989). Springer New York., **@2014**

86. Gonçalves, P. (2014). Modeling of Business Processes and Crisis Management. In Encyclopedia of Social Network Analysis and Mining (pp. 960-963). Springer New York., **@2014**

10. Dimov, I., **Karaivanova, A.**. Parallel computations of eigenvalues based on a Monte Carlo approach. Monte Carlo Methods and Applications, 4, 1, VSP, Berlin, Germany : De Gruyter, 1998, ISSN:0929-9629, DOI:10.1515/mcma.1998.4.1.33, 33-52. SJR:0.417

Цитира се в:

87. Gallagher, R. (2001). Finding steady state of safety systems using the Monte Carlo method. In Computational Science—ICCS 2001 (pp. 1253-1261). Springer Berlin Heidelberg., **@2001**

88. Srinivasan, A., & Mascagni, M. (2002). Monte Carlo techniques for estimating the Fiedler vector in graph applications. In Computational Science—ICCS 2002 (pp. 635-645). Springer Berlin Heidelberg., **@2002**

89. Chih Jeng Kenneth Tan, Solving Systems of Linear Equations with Relaxed Monte Carlo Method, Journal of Supercomputing, Vol. 22 (1) (2002), pp. 113-123, DOI: 10.1023/A:1014314822451, SJR(2002): 0.19., **@2002**

90. Christian Weihrauch, Performance Analysis for Parallel Monte Carlo Algorithms for Linear Algebra Problems, Dissertation, School of Systems Engineering, University of Reading, UK, June 2008, **@2008**

91. Fathi Vajargah, B., & Mehrdoust, F. (2009). New Monte Carlo algorithm for obtaining three dominant eigenvalues. Int. J. Appl. Math, 22, 553-559., **@2009**

92. Weng, P.C.-Y., Phoa, F.K.H., Small-sample Statistical Condition Estimation of Large-scale Generalized Eigenvalue Problems, Journal of Computational and Applied Mathematics 298, 2016, 24-39. Elsevier. DOI: 10.1016/j.cam.2015.11.022. ISSN: 0377-0427. SJR(2015): 1.089. IF (2015): 1.328. 5-year IF: 1.294., (SCOPUS), **@2016**

93. Fathi Vajargah, B., Alexandrov, V., Javadi, S., Hadian, A., Novel Monte Carlo Algorithm for Solving Singular Linear Systems, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)Volume 10862 LNCS, 2018, Pages 202-206, DOI: 10.1007/978-3-319-93713-7_16, SJR(2017): 0.295, **@2018**

1999

---

11. Alexandrov, V., **Karaivanova, A.**. Parallel Monte Carlo Algorithms for Sparse SLAE using MPI. Recent Advances in Parallel Virtual Machine and Message Passing Interface, LNCS, 1697, Springer, 1999, ISBN:3540665498;978-354066549-6, ISSN:03029743, DOI:10.1007/3-540-48158-3_35, 283-290. SJR:0.299

Цитира се в:

94. Weihrauch, C. , Data Splitting for Parallel Linear Algebra Monte Carlo Algorithms, 2006, **@2006**

95. Straßburg, J., On hybrid and resilient Monte Carlo methods for linear algebra problems, University of Reading, 2014., **@2014**

96. Lai, S., Jin, J., Guo, M., Lin, X., GPU-based monte carlo methods for solving linear algebraic equations, Proceedings of Science, Volume 18-19, 2015, e-ISSN: 1824-8039, SJR(2017): 0.115, **@2015**

12. Dimov, I., **Karaivanova, A.**. A power method with Monte Carlo iterations. in: Recent Advances in Numerical Methods and Applications II, (O.Iliev, M. Kaschiev, S. Margenov, Bl. Sendov, P. Vassilevski eds), World Scientific, 1999, ISBN:978-981-4291-07-1, DOI:10.1142/9789814291071_0022, 239-247

Цитира се в:

97. Srinivasan, A., & Mascagni, M. (2002). Monte Carlo techniques for estimating the Fiedler vector in graph applications. In Computational Science—ICCS 2002 (pp. 635-645). Springer Berlin Heidelberg., **@2002**

98. Srinivasan, A., & Aggarwal, V. (2003). Improved Monte Carlo linear solvers through non-diagonal splitting. In Computational Science and Its Applications—ICCSA 2003 (pp. 168-177). Springer Berlin Heidelberg., **@2003**

99. A. Srinivasan, V. Aggarwal, Stochastic Linear Solvers, Proceedings of the SIAM Conference on Applied Linear Algebra (2003)., **@2003**

100. Fathi Vajargah, B., & Mehrdoust, F. (2009). New Monte Carlo algorithm for obtaining three dominant eigenvalues. Int. J. Appl. Math, 22, 553-559., **@2009**

101. Srinivasan, A. (2010). Monte Carlo linear solvers with non-diagonal splitting. Mathematics and Computers in Simulation, 80(6), 1133-1143., **@2010**

102. VAJARGAH, B. F., MEHRDOUST, F., & FATHI, K. (2010). ON COMPUTING DOMINANT EIGENPAIR BY MARKOV CHAIN MONTE CARLO METHOD. Journal of Applied Mathematics, Statistics and Informatics (JAMSI), 6(2)., **@2010**

103. Chang, R. Y., Chung, W. H., & Hung, C. Y. (2011, June). Efficient MIMO Detection Based on Eigenspace Search with Complexity Analysis. In Communications (ICC), 2011 IEEE International Conference on (pp. 1-5). IEEE., **@2011**

104. Chang, R. Y., Chung, W. H., & Lin, S. J. (2012). A* algorithm inspired memory-efficient detection for MIMO systems. Wireless Communications Letters, IEEE, 1(5), 508-511., **@2012**

105. Chang, R. Y., & Chung, W. H. (2012). Low-Complexity MIMO Detection Based on Post-Equalization Subspace Search. Vehicular Technology, IEEE Transactions on, 61(1), 375-380., **@2012**

106. Ye, F., Calvin, C., Petiton, S., An efficient task-based execution model for stochastic linear solver on multi-core and many-core systems, Proceedings - IEEE 18th International Conference on Computational Science and Engineering, CSE 2015, art. no. 7371374, 200-207. DOI: 10.1109/CSE.2015.52. ISBN: 978-146738297-7., **@2015**

107. Ye, F., Calvin, C., Petiton, S., Intel Xeon/Xeon phi platform oriented scalable Monte Carlo linear solver, Mathematics and Computations, Supercomputing in Nuclear Applications and Monte Carlo International Conference, M and C+SNA+MC 2015, 3, 2015, 2066-2077. ISBN: 978-151080804-1., **@2015**

108. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017, **@2017**

2000

---

13. Mascagni, M., **Karaivanova, A.**. What are quasirandom numbers and are they good for anything besides integration?. Proceedings of Advances in Reactor Physics and Mathematics and Computation into the Next Millenium, 2000

Цитира се в:

109. Maaranen, H., Miettinen, K., Mäkelä, M.M., Using quasi random sequences in genetic algorithms, in book: Optimization and inverse problems in electromagnetism, Springer, 2003, pp 33-44, ISBN 978-90-481-6375-5, DOI: 10.1007/978-94-017-2494-4_4, **@2003**

110. Maaranen, H., Miettinen, K., Mäkelä, M.M. Quasi-random initial population for genetic algorithms (2004) Computers and Mathematics with Applications, 47 (12), pp. 1885-1895, ISSN: 0898-1221, DOI: 10.1016/j.camwa.2003.07.011, SJR(2017): 1.058, IF(2017): 1.860, **@2004**

111. Jaramillo, R. G. E., A Study of Adaptation Mechanisms for Simulation Algorithms, 2012, 4. Esteves Jaramillo, Rodolfo Gabriel, A Study of Adaptation Mechanisms for Simulation Algorithms, 2012, http://hdl.handle.net/10012/6932, **@2012**

112. Pasupuleti, S. K., Effective and secure data storage in multi-cloud storage architectures, International Journal of Information and Communication Technology (IJICT), Vol. 12, Issue 1-2, 2018, Print ISSN: 1466-6642, Online ISSN: 1741-8070, DOI: 10.1504/IJICT.2018.089023, **@2018**

2001

14. Mascagni, M., **Karaivanova, A.**. Matrix Computations Using Quasirandom Sequences. Numerical Analysis and Its Applications, LNCS, 1988, Springer, 2001, ISSN:03029743, DOI:10.1007/3-540-45262-1_65, 552-559. SJR:0.399

Цитира се в:

113. V. Alexandrov, E. Atanassov, I. Dimov, Parallel Quasi-Monte Carlo Methods for Linear Algebra Problems, Monte Carlo Methods and Applications. Volume 10, Issue 3-4, Pages 213–219, ISSN (Online) 1569-3961, ISSN (Print) 0929-9629, DOI: 10.1515/mcma.2004.10.3-4.213, December 2004, SJR(2017): 0.417, **@2004**

114. Hongmei Chi, PhD dissertation, Scrambled quasirandom sequences and their applications, 2004, **@2004**

115. Syamal Kumar Sen, Tathagata Samanta and Andrea Reese, Quasi- Versus Pseudo-random Generators: Discrepancy, Complexity and Integration-error Based Comparison, International Journal of Innovative Computing, Information and Control (IJICIC), 2006, ISSN 1349-4198, Volume 2, Number 3, pp. 621- 651., **@2006**

116. Sen, S. K., Shaykhian, G. A., Scope of various random number generators in ant system approach for TSP, American Society for Engineering Education (ASEE), Annual Conference and Exposition, Conference Proceedings, pp. 12.1256.1 - 12.1256.25, 2007., **@2007**

117. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

15. Dimov, I. T., Aleksandrov, V., **Karaivanova, A.**. Parallel resolvent Monte Carlo algorithms for linear algebra problems. Mathematics and Computers in Simulation, 55, 1-3, Elsevier, 2001, ISSN:0378-4754, DOI:10.1016/S0378-4754(00)00243-3, 25-35. ISI IF:0.949

Цитира се в:

118. Weihrauch, C. (2006). Data splitting for parallel linear algebra monte carlo algorithms*., **@2006**

119. Christian Weihrauch, Performance Analysis for Parallel Monte Carlo Algorithms for Linear Algebra Problems, Dissertation, School of Systems Engineering, University of Reading, UK, June 2008, **@2008**

120. Simon Branford, Hybrid Monte Carlo Methods For Linear Algebra Problems, Dissertation, School of Systems Engineering, University of Reading, UK, April 2008, **@2008**

121. 赖斯龚, & 赖国明. (2009). 高效解大型稀疏线性方程组. 西北大学学报 (自然科学网络版), 7(5). Translation: Rice 龚 , & Lai Guoming. (2009). Efficient Solutions for large sparse linear equations of Northwest University (Natural Science online version), 7 (5)., **@2009**

122. 赖斯龚, & 卢秀玉. (2010). 蒙特卡罗方法与拟蒙特卡罗方法解线性方程组. 东华大学学报: 自然科学版, 36(2), 224-228. Translation: Rice Gong, & Monte Carlo and quasi-Monte Carlo method to solve linear equations Lu Xiuyu (2010) Donghua University: Natural Science, 36 (2), 224-228., **@2010**

123. Райна Георгиева, докторска дисертация, „Изчислителна сложност на алгоритми Монте Карло за многомерни интеграли и интегрални уравнения", Автор: Райна Георгиева, Година: 2010, **@2010**

124. Lee, B., & Shim, B. (2012). A vector perturbation with user selection for multiuser MIMO downlink. Communications, IEEE Transactions on, 60(11), 3322-3331., **@2012**

125. J Straßburg(2014), On hybrid and resilient Monte Carlo methods for linear algebra problems, University of Reading, **@2014**

126. Farnoosh, R. and Aalaei, M. and Ebrahimi, M., Combined probabilistic algorithm for solving high dimensional problems, Stochastics, 2015, 87 (1), pp. 30-47, ISSN: 1744-2508, DOI: 10.1080/17442508.2014.914515, IF: 0.515, **@2015**

127. Farnoosh, R. and Aalaei, M., New adaptive Monte Carlo algorithm for parallel solution of large linear systems with applications, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, 2015, 16 (1), pp. 11-19, ISSN: 1454-9069, IF: 1.658, **@2015**

128. Benzi, M., Evans, T. M., Hamilton, S. P., Pasini, M. L., Slattery, S. R., Analysis of Monte Carlo Accelerated Iterative Methods for Sparse Linear Systems. NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS, 2016. ISSN: 1070-5325. IF (2015): 1.431. 5-year IF: 1.513. URL: http://www.mathcs.emory.edu/~benzi/Web_papers/mcsa.pdf. Article in press. (SCOPUS), **@2016**

129. Wu, T., & Gleich, D. F. (2016). Multi-way Monte Carlo Method for Linear Systems. arXiv preprint arXiv:1608.04361., **@2016**

130. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017, **@2017**

131. Wu, Tao, Higher-order Random Walk Methods for Data Analysis, Purdue University, ProQuest Dissertations Publishing, 2018. 10790747, **@2018**

16. Mascagni, M., **Karaivanova, A.**, Li, Y.. A quasi-Monte Carlo method for elliptic partial differential equations. Monte Carlo Methods and Applications, 7, 3-4, 2001, DOI:10.1515/mcma.2001.7.3-4.283, 283-294. SJR:0.205

Цитира се в:

132. Румяна Папанчева, докторска дисертация, „Ефективни немрежови Монте Карло алгоритми за решаване на гранични задачи с локално интегрално представяне на решението", Автор: Румяна Папанчева, Година: 2003, **@2003**

133. Acebrón, J.A., Busico, M.P., Lanucara, P., Spigler, R. Probabilistically induced domain decomposition methods for elliptic boundary-value problems (2005) Journal of Computational Physics, 210 (2), pp. 421-438. (IF 2.369), **@2005**

134. Manolis Vavalis and George Sarailidis, IMPLEMENTING HYBRID PDE SOLVERS, 2014, **@2014**

135. George Sarailidis and Manolis Vavalis, On the Stochastic/Deterministic Numerical Solution of Composite Deterministic Elliptic PDE Problems, INTERNATIONAL JOURNAL OF MATHEMATICAL MODELS AND METHODS IN APPLIED SCIENCES, ISSN: 1998-0140, Volume 9, 2015, pp. 740-747, SJR 0.306, **@2015**

17. **Karaivanova, A.**, Georgieva, R.. Solving Systems of Linear Algebraic Equations Using Quasirandom Numbers. Lecture Notes in Computer Science, 2179, Springer Verlag, 2001, ISBN:978-3-540-43043-8, ISSN:0302-9743, DOI:10.1007/3-540-45346-6_16, 166-174. SJR:0.311, ISI IF:0.415

Цитира се в:

136. T. Gurov, P. Whitlock, I. T. Dimov, Monte Carlo and Quasi-Monte Carlo Algorithms for the Barker-Ferry Equation with Low Complexity. – In: Proceeding of 5th International Conference on Numerical Methods and Application, 2002, Borovets, Bulgaria, Dimov I., Lirkov I.; Margenov S., et al. (eds.), LNCS 2542, 2003, 108-116. SJR (2004): 0.312. (SCOPUS), **@2003**

137. V. Alexandrov, E. Atanassov, I. Dimov, Parallel Quasi-Monte Carlo Methods for Linear Algebra Problems, Monte Carlo Methods and Applications, Vol. 10, No. 3-4 (2004), 213-219. SJR (2012): 0.224. (SCOPUS), **@2004**

18. **Karaivanova, A.**, Dimov, I., Ivanovska, S.. A Quasi-Monte Carlo Method for Integration with Improved Convergence. Lecture Notes in Computer Science, 2179, Springer, Berlin, Heidelberg, 2001, ISBN:978-3-540-45346-8, ISSN:0302-9743, DOI:10.1007/3-540-45346-6_15, 158-165. SJR:0.399

Цитира се в:

138. Li, X., Yang, J., Zhu, Y. Digitally reconstructed radiograph generation by an adaptive Monte Carlo method (2006) Physics in Medicine and Biology, 51 (11), pp. 2745-2752, ISSN: 0031-9155 (IF 2.781), **@2006**

139. He, W., Chen, J., Zeng, S., Liu, Y., Assessment of IMPULSE model simulation capability based on uncertainty analysis, Journal of Tsinghua University, Volume 49, Issue 6, June 2009, Pages 850-854., **@2009**

140. Benigni, A., Liu J., Ponci F., Monti A., Pisano G., Sulis S., Decoupling power system state estimation by means of stochastic collocation, IEEE Transactions on Instrumentation and Measurement 60 (5), art. No. 5740595, 2010, pp. 1623-1632., **@2010**

141. Benigni, A., Liu J., Ponci F., Monti A., Pisano G., Sulis S., Decoupling power system state estimation by means of stochastic collocation, 2010 IEEE International IMT conference, I2MTC 2010 – Proceedings, 2010, Article number 5488102, pp. 789-794, ISBN 978-142442833-5., **@2010**

142. Monti, A., Ponci, F., Benigni, A., Liu, J., Distributed intelligence for smart grid control, 2010, Proceedings of the 2010 10th Conference-Seminar International School on Nonsinusoidal Currents and Compensation, ISNCC 2010 , art. no. 5524469, pp. 46-58, **@2010**

143. Monti, A., Ponci, F., Benigni, A., Liu, J., Distributed intelligence for Smart Grid Control, Przeglad Elektrotechniczny 86 (6), pp. 38-47, 2010., **@2010**

144. Xu, Jianhui, Shu, Hong, Jiang, Hongnan, Dong, Lin, Sobol' sensitivity analysis of parameters in the common land model for simulation of water and energy fluxes, Earth Science Informatics, volume 5, number 3, pp. 167--179, ISSN: 1865-0481, DOI: 10.1007/s12145-012-0105-z, **@2012**

145. Benigni, A., Ponci, F., Monti, A., Toward an uncertainty-based model level selection for the simulation of complex power systems, IEEE Systems Journal, Vol. 6, Issue 3, 2012, Article number 6186757, pp. 564-574, DOI: 10.1109/JSYST.2012.2190694, SJR(2012):0.424., **@2012**

146. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017., **@2017**

147. D. P. Kouri, A Measure Approximation for Distributionally Robust PDE-Constrained Optimization Problems, SIAM Journal on Numerical Analysis, Vol. 55, No 6, pp. 3147–3172, 2017, ISSN Electronic: 1095-7170, ISSN Print: 0036-1429, IF(2016) : 1.978, SJR (2016): 2.65 https://doi.org/10.1137/15M1036944, **@2017**

2002

19. Mascagni, M., **Karaivanova, A.**. A parallel Quasi-Monte Carlo method for solving systems of linear equations. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2330, PART 2, 2002, ISSN:0302-9743, DOI:10.1007/3-540-46080-2_62, 598-608. SJR:0.252

Цитира се в:

148. Hofbauer, H., Uhl, A., Zinterhof, P., Quasi Monte Carlo integration in grid environments: Further leaping effects, Parallel Processing Letters, Issue 3, September 2006, pp. 285-311., **@2006**

149. Ding, D., Jin, X. Q., Zhang, Y. Y., Numerical comparison of Monte Carlo methods for linear systems (chapter 7), pp.99-113, International Press, and Higher Education Press, ISBN: 978-1-57146-132-2, **@2008**

150. N. Simonov, Walk-on-Spheres Algorithm for Solving Boundary-Value Problems with Continuity Flux Conditions, Proceedings of MCQMC 2006, Springer, 2008, 2, pp. 633-643, DOI: 10 1007/978-3-540-74496-2_38, **@2008**

151. P. Jez, A. Uhl, P. Zinterhof, Applications and Parallel Implementation of QMC Integration, Chapter 6 of Parallel Computing, 2009, pp. 175-215, DOI:10.1007/978-1-84882-409-6_6., **@2009**

152. Fan Bai, Parallel Monte Carlo Methods, pp. 1-27, , **@2011**

153. Hao Ji, Yaohang Li, Reusing Random Walks in Monte Carlo Methods for Linear Systems, Procedia Computer Science, vol. 9, 2012, pp. 383-392, https://doi.org/10.1016/j.procs.2012.04.04 , SJR(2012): 0.505., **@2012**

154. Lai, S., Jin, J., Guo, M., Lin, X., GPU-based Monte Carlo methods for solving linear algebraic equations, Proceedings of Science, 2015, 18-19-December-2015, art. no. 047, **@2015**

155. Ji, Hao, Novel Monte Carlo Methods for Large-Scale Linear Algebra Operations (2016). Computer Sciences Theses & Dissertations., **@2016**

156. Siyan Lai, Ying Xu, Bo Shao, Menghan Guo, and Xiaola Lin, Accelerate quasi Monte Carlo method for solving systems of linear algebraic equations through shared memory, AIP Conference Proceedings, Vol. 1834, Issue 1, 2017; ISBN: 978-0-7354-1504-1, https://doi.org/10.1063/1.4981626, SJR(2016): 0.163, **@2017**

20. Mascagni, M., **Karaivanova, A.**. A Parallel Quasi-Monte Carlo Method for Computing Extremal Eigenvalues. In: Fang KT., Niederreiter H., Hickernell F.J. (eds) Monte Carlo and Quasi-Monte Carlo Methods 2000, Springer Berlin Heidelberg, 2002, ISBN:978-3-642-56046-0, DOI:10.1007/978-3-642-56046-0_25, 369-380

Цитира се в:

157. Dimov, I., Alexandrov, V., Branford, S., Weihrauch, C. Error analysis of a Monte Carlo algorithm for computing bilinear forms of matrix powers (2006) Lecture Notes in Computer Science, 3993 LNCS - III, pp. 632-639., **@2006**

158. HEINZ HOFBAUER, ANDREAS UHL, and PETER ZINTERHOF, QUASI MONTE CARLO INTEGRATION IN GRID ENVIRONMENTS: FURTHER LEAPING EFFECTS Parallel Processing Letters, 2006, Vol. 16 Number 03, pp. 285-311 DOI: 10.1142/S0129626406002654, **@2006**

159. Dimov, V. Alexandrov, R. Papancheva, C. Weihrauch, Monte CarloNumerical Treatment of Large Linear Algebra Problems, ICCS 2007, Part I, LNCS 4487, pp. 747-754., **@2007**

160. Райна Георгиева, докторска дисертация, „Изчислителна сложност на алгоритми Монте Карло за многомерни интеграли и интегрални уравнения", Автор: Райна Георгиева, Година: 2010, **@2010**

161. F. Vajargah, F. Mehrdoust, Quasi MC algorithm for computing smallest and largest generalized eigenvalues, ANZIAM Journal, Vol 52, 2011, pp. E41-E58., **@2011**

162. Niederbrucker, G., Gansterer, W.N., Efficient solution of evolution models for virus populations, Procedia Computer Science 4, 2011, pp.128-135, ISSN: 18770509, **@2011**

163. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017, **@2017**

2003

21. Mascagni, M., **Karaivanova, A.**. A Monte Carlo Approach for Finding More than One Eigenpair. Numerical Methods and Applications, LNCS, 2542, Springer, 2003, ISSN:0302-9743, DOI:10.1007/3-540-36487-0_13, 123-131. SJR:0.41

Цитира се в:

164. Lejay A., Maire S., Computing the principal eigenelements of some linear operators using a branching Monte Carlo method, Journal of Computational Physics, Volume 227, Issue 23, 2008, pp. 9794-9806, ISSN: 0021-9991, DOI: 10.1016/j.jcp.2008.07.018, SJR(2017) 2.047, IF(2017): 2.864, **@2008**

22. Alexandrov, V., Dimov, I.**, Karaivanova, A.**, Tan, Chih Jeng Kenneth. Parallel Monte Carlo algorithms for information retrieval. Mathematics and Computers in Simulation, 62, 3-6, Elsevier, 2003, ISSN:0378-4754, DOI:10.1016/S0378-4754(02)00252-5, 289-295. ISI IF:1.476

Цитира се в:

165. M. Nikolova, K. Atanasov, V. Vasilev, Generalized Nets as tools for optimisation of real processes, Advanced Studies in Contemporary Mathematics, Vol. 9 (1) (2004), pp. 47-62., **@2004**

166. Kaklauskas, A., Zavadskas, E., Babenskas, E., Seniut, M., Vlasenko, A., & Plakys, V. (2007). Intelligent library and tutoring system for Brita in the PuBs project. In Cooperative Design, Visualization, and Engineering (pp. 157-166). Springer Berlin Heidelberg., **@2007**

167. Kaklauskas, A., Gulbinas, A., Krutinis, M., Naimavičiene, J., & Šatkauskas, G. (2007). Methods for multivariant analysis of optional modules used in teaching process. Technological and Economic Development of Economy, 13(3), 253-258., **@2007**

168. Naimavičiene, J., Kaklauskas, A., & Gulbinas, A. (2007). Multi-variant decision support e-system for device and knowledge based intelligent residential environment. Technological and Economic Development of Economy, 13(4), 303-313., **@2007**

169. Kaklauskas, A., Gulbinas, A., Krutinis, M., Naimavičienė, J., & Šatkauskas, G. (2007). Mokymo procese naudojamų pasirenkamųjų modulių daugiavariantės analizės metodai. Ūkio technologinis ir ekonominis vystymas, 13(3), 253-258., **@2007**

170. Naimavičienė, J., Kaklauskas, A., & Gulbinas, A. (2007). Prietaisais ir žiniomis paremtos intelektinės gyvenamosios aplinkos daugiavariantė sprendimų paramos elektroninė sistema. Ūkio technologinis ir ekonominis vystymas, 13(4), 303-313., **@2007**

171. Zavadskas, E. K., Kaklauskas, A., Vlasenko, A., & Gulbinas, A. (2007, May). Intelligent library and tutoring system for Brita in PUBs project. In The 9th International Conference "Modern Building Materials, Structures and Techniques (Vol. 1, p. 3)., **@2007**

172. Kaklauskas, A., Vlasenko, A., Amaratunga, R. D. G., & Keraminiyage, K. P. (2008). Biometrics technologies, intelligent library and tutoring system within the EURASIA project., **@2008**

173. Zavadskas, E. K., Kaklauskas, A., & Banaitis, A. (2011). The use of the intelligent library and tutoring system at all stages of a building life cycle. Engineering Economics, 22(1)., **@2011**

174. Sumner, W. N., Bao, T., Zhang, X., & Prabhakar, S. (2011, May). Coalescing executions for fast uncertainty analysis. In Proceedings of the 33rd International Conference on Software Engineering (pp. 581-590). ACM., **@2011**

175. Bao, T., Zheng, Y., & Zhang, X. (2012, October). White box sampling in uncertain data processing enabled by program analysis. In ACM SIGPLAN Notices (Vol. 47, No. 10, pp. 897-914). ACM, SJR(2012): 0.494, **@2012**

176. Bianchi, M., Kaklauskas, A., Imoniana, J. O., Orelli, R. L., & Tampieri, L. (2012). The Evaluation of Networks Performance in Cultural Heritage Through Intelligent Systems. In Information Systems: Crossroads for Organization, Management, Accounting and Engineering (pp. 387-395). Physica-Verlag HD., **@2012**

177. Farnoosh, R., Aalaei, M., Ebrahimi, M., Combined Probabilistic Algorithm for Solving High Dimensional Problems, Stochastics 87 (1), 2015, 30-47. Gordon and Breach Science Publishers. DOI: 10.1080/17442508.2014.914515. ISSN: 0090-9491. SJR(2015): 0.951., **@2015**

178. Farnoosh, R., Aalaei, M., New Adaptive Monte Carlo Algorithm for Parallel Solution of Large Linear Systems with Applications, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science 16 (1), 2015, 11-19. Publishing House of the Romanian Academy. ISSN: 1454-9069. SJR(2015): 0.951. IF (2015): 1.737; 5-year IF: 1.054., **@2015**

179. Gutiérrez Soto, C., Exploring the reuse of past search results in information retrieval . PhD Thesis, Université de Toulouse, Université Toulouse III-Paul Sabatier, France, 2016., **@2016**

23. Dimov, I. T.**, Karaivanova, A.**, Georgieva, R.**,** Ivanovska, S**.** Parallel Importance Separation and Adaptive Monte Carlo Algorithms for Multiple Integrals. Numerical Methods and Applications, Lecture Notes in Computer Science, 2542, Springer Berlin Heidelberg, 2003, ISBN:978-3-540-00608-4; O, ISSN:0302-9743, DOI:10.1007/3-540-36487-0_10, 99-107. SJR:0.34

Цитира се в:

180. M. Kalepu, Monte Carlo variance reduction techniques, MS Dissertation, The University of Reading, Faculty of Science, 2007, Reading, UK, **@2007**

181. Jaffari, J., & Anis, M. (2009, November). Adaptive Sampling for Efficient Failure Probability Analysis of SRAM cells. In Proceedings of the 2009 International Conference on Computer-Aided Design (pp. 623-630). ACM. Article number 5361229. ISSN: 1092-3152. SJR (2009): 1.938. (SCOPUS), **@2009**

182. Jaffari, J. (2010). Statistical Yield Analysis and Design for Nanometer VLSI (PhD Thesis for the degree of Doctor of Philosophy in Electrical and Computer Engineering, University of Waterloo, Waterloo, Ontario, Canada, 177 pages). URL: http://hdl.handle.net/10012/5361. Collections Electrical and Computer Engineering Theses & Dissertations. (Google Scholar), **@2010**

183. Todorov, V., Dzurov, V., Stojanov, P., Angelov, A. (2016). Latin Hypercube and Importance Sampling Algorithms for Multidimensional Integrals. Journal Scientific & Applied Research, 10, 2016, 17-23. Konstantin Preslavsky Publishing House. ISSN: 1314-6289. (Google Scholar), **@2016**

184. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017., **@2017**

2004

24. **Karaivanova, A.**, Mascagni, M., Simonov, N.. Parallel Quasirandom Walks on the Boundary. Monte Carlo Methods and Applications, 10, 3-4, Walter de Gruyter GmbH, 2004, ISSN:0929-9629, DOI:10.1515/mcma.2004.10.3-4.311, 311-319. SJR:0.417

Цитира се в:

185. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

186. Atanassov, E., Dimitrov, D. Sl., Gurov, T., SALUTE grid application using message-oriented middleware, AIP Conference Proceedings, Vol.1186, 2009, pp. 183-191, DOI: 10.1063/1.3265328, SJR(2017):0.165., **@2009**

25. Ivanovska, S.**, Karaivanova, A.**. Parallel Importance Separation for Multiple Integrals and Integral Equations. Computational Science-ICCS 2004, LNCS, 3039, Springer, 2004, DOI:10.1007/978-3-540-25944-2_65, 499-506. SJR:0.347

Цитира се в:

187. I. Dimov, A.A. Penzov, and S.S. Stoilova, Parallel Monte Carlo Approach for Integration of the Rendering Equation, NMA2006, LNCS 4310, Springer, 2007, pp. 140–147, ISSN: 03029743, Print ISBN 978-3-540-70940-4, Online ISBN 978-3-540-70942-8 DOI: 10.1007/978-3-540-70942-8_16, **@2006**

188. Atanassov E., Dimitrov D. Sl., Gurov T., SALUTE grid application using message-oriented middleware, AIP Conference Proceedings, Vol. 1186, 2009, pp. 183-191, DOI: 10.1063/1.3265328, ISSN: 0094243X, SJR(2017):0.165, **@2009**

26. Mascagni, M., **Karaivanova, A.**, Hwang, C.. Quasi-Monte Carlo Methods for Elliptic BVPs. Monte Carlo and Quasi-Monte Carlo Methods, Springer, 2004, 345-355

Цитира се в:

189. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

27. Rasulov, A., **Karaivanova, A.**, Mascagni, M.. Quasirandom Sequences in Branching Random Walks. Monte Carlo Methods and Applications, 10, 3-4, De Gruyter, 2004, ISSN:0929-9629, DOI:10.1515/mcma.2004.10.3-4.551, 551-558. SJR:0.647

Цитира се в:

190. Harris, R. C., Mackoy, T., Fenley, M. O., A Stochastic Solver of the Generalized Born Model, Computational and Mathematical Biophysics (formerly Molecular Based Mathematical Biology), Volume 1, pp. 63-74, DOI: 10.2478/mlbmb-2013-0003, ISSN: 2299-3266, **@2013**

191. Terrée, G., Hafi, M.E., Blanco, S., Fournier, R., Dauchet, J., Gautrais, J., Addressing the gas kinetics Boltzmann equation with branching paths statistics, arXiv:1712.02900v1, 2017, **@2017**

2005

28. Ivanovska, S.**,** Atanassov, E.**, Karaivanova, A.**. A Superconvergent Monte Carlo Method for Multiple Integrals on the Grid. LNCS, 3516 (III), 3, Springer, 2005, ISSN:03029743, DOI:10.1007/11428862_100, 735-742. SJR:0.334

Цитира се в:

192. Xu, J., Shu, H., Jiang, H., Dong, L., Sobol' sensitivity analysis of parameters in the common land model for simulation of water and energy fluxes, Earth Science Informatics, Vol.5, Issue 3-4, 2012, pp. 167-179, ISSN 1865-0473, DOI: 10.1007/s12145-012-0105-z, SJR(2017):0.503, IF(2017): 1.628, **@2012**

2006

29. **Karaivanova, A.**, Simonov, N.. A Quasi-Monte Carlo Methods for Investigating Electrostatic Properties of Organic Pollutant Molecules in Solvent. Lecture Notes in Computer Science, 3743, Springer, 2006, DOI:10.1007/11666806_18, 172-180. SJR:0.317

Цитира се в:

193. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

30. Atanassov, E.**,** Gurov, T.**, Karaivanova, A.**, Nedjalkov, M.**.** Monte Carlo Grid Application for Electron Transport. Lecture Notes in Computer Science, 3993, 3, Springer, 2006, ISBN:978-3-540-34383-7, DOI:10.1007/11758532_81, 616-623. SJR:0.317

Цитира се в:

194. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

195. Hristov, I., Bifurcation of the Magnetic Flux Static Disributions in Multileyered Josephson Junctions, BGSIAM'07 Proceedings, pp. C-15- C18, 2008, ISSN: 1313-3357, **@2008**

196. Coti C., Herault T., Cappello F., MPI applications on grids: A topology aware approach (2009) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5704 LNCS, pp. 466-477, ISSN:0302-9743, DOI: 10.1007/978-3-642-03869-3_45, SJR(2009):0.302, **@2009**

197. Coti C., Environnements d'exécution pour applications parallèles communiquant par passage de messages pour les systèmes à grande échelle et les grilles de calcul, 2009, https://hal.inria.fr/tel-00676937/, **@2009**

31. Atanassov, E.**,** Gurov, T.**, Karaivanova, A.**. Computational Grid: Structure and Applications. Journal Automatics and Informatics, 3, 2006, ISSN:0861-7562, 40-43

Цитира се в:

198. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

199. Penev, I., Antonov, A., Possibilities of grid computing for realization of simulation problems, ACM International Conference Proceeding Series, Volume 433, 2009, Pages VI.51-VI.56, **@2009**

200. G. Jordanov , G. Gadzhev , K. Ganev, M. Prodanova , D. Syrakov, N. Miloshev, EVALUATION OF THE CONTRIBUTION OF DIFERENT SNAP CATEGORIES TO THE AIR POLLUTION OVER THE BALKAN PENNINSULA, HARMO13 - 1-4 June 2010, Paris, France - 13th Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, pp.398-402, http://www.harmo.org/conferences/proceedings/_Paris/publishedSections/H13-154-abst.pdf, **@2010**

201. G. Gadzhev, G. Jordanov, K. Ganev, M. Prodanova, D. Syrakov, N. Miloshev, ANALYZIS OF THE PROCESSES WHICH FORM THE AIR POLLUTION PATTERN OVER THE BALKAN PENINSULA, HARMO13 - 1-4 June 2010, Paris, France - 13th Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, pp. 156-160, http://www.harmo.org/conferences/proceedings/_Paris/publishedSections/H13-153-abst.pdf, **@2010**

202. G. Gadzhev, D. Syrakov K.Ganev, A. Brandiyska, N. Miloshev, G. Georgiev, M. Prodanova, Atmospheric Composition of the Balkan Region and Bulgaria. Study of the Contribution of Biogenic Emissions, AIP Conference Proceedings, Vol. 1404, Issue 1, (2011), https://doi.org/10.1063/1.3659921 ., **@2011**

203. G. Gadzhev, K. Ganev, M. Prodanova, D. Syrakov, N. Miloshev, BIOGENIC EMISSIONS IMPACT ON THE ATMOSPHERIC COMPOSITION IN BULGARIA, 14th Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes – 2-6 October 2011, Kos, Greece, pp.371-375, http://www.harmo.org/Conferences/Proceedings/_Kos/publishedSections/H14-144.pdf, **@2011**

204. G. Gadzhev, G. Jordanov, K. Ganev, M. Prodanova, D. Syrakov, N. Miloshev, Atmospheric Composition Studies for the Balkan Region, International Conference on Numerical Methods and Applications NMA 2010: Numerical Methods and Applications, LNCS, vol. 6046, pp 150-157, DOI https://doi.org/10.1007/978-3-642-18466-6_17 , 2011, SJR(2011) 0.338., **@2011**

205. G. Jordanov, G. Gadzhev, K. Ganev, N. Miloshev, D. Syrakov, M. Prodanova, Numerical study of the wind energy potential in Bulgaria - Some preliminary results, AIP Conference Proceedings, Vol. 1487, Issue 1, 71 (2012); https://doi.org/10.1063/1.4758943, **@2012**

206. BrandiyskaK. GanevD. SyrakovM. ProdanovaN. Miloshev, Modeling of Toxic Substances in the Atmosphere – Risk Analysis and Emergency Forecast, International Conference on Large-Scale Scientific Computing LSSC 2011: Large-Scale Scientific Computing, LNCS vol. 7116, pp. 267-274, 2012, DOI: https://doi.org/10.1007/978-3-642-29843-1_30 , SJR(2012): 0.346., **@2012**

207. G. Gadzhev, K. Ganev, N. Miloshev, D. Syrakov, M. Prodanova, Numerical study of the atmospheric composition in Bulgaria, Computers & Mathematics with Applications, Vol. 65, Issue 3, 2013, pp. 402-422, https://doi.org/10.1016/j.camwa.2012.07.002 , SJR(2013): 1.295., **@2013**

208. G. Gadzhev, K. Ganev, M. Prodanova, D. E. Syrakov, N. Miloshev, G. Georgiev, Some numerically studies of the atmospheric composition climate of Bulgaria, AIP Conference Proceedings, Vol. 1561, Issue 1, 100 (2013); https://doi.org/10.1063/1.4827219, **@2013**

209. G. Gadzhev, K. Ganev, N. Miloshev, D. Syrakov, M. Prodanova, Some basic facts about the atmospheric composition in Bulgaria - Grid computing simulations, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2014, 8353 LNCS, pp. 484-490, DOI: 10.1007/978-3-662-43880-0_55, SJR: 0.354 (2014), **@2014**

210. K. Ganev, G. Jordanov, G. Gadzhev, N Miloshev, D. Syrakov, M Prodanova, Renewable energy potential in Bulgaria - Some computer simulations results, AIP Conference Proceedings, 2014, 1629, pp. 414-423, DOI: 10.1063/1.4902303, SJR: 0.198 (2015), **@2015**

211. Gadzhev, Georgi; Ganev, Kostadin; Syrakov, Dimiter; Prodanova, Maria; Georgieva, Ivelina; et al. Computer simulations of the atmospheric composition climate of Bulgaria, Física de la Tierra27, (2015): 171-189., **@2015**

212. Gadzhev, G., Ganev, K., Miloshev, N., Syrakov, D. and Prodanova, M., HPC Simulations of the Fine Particulate Matter Climate of Bulgaria, NMA 2014, LNCS 8962, Springer, 2015, pp. 178-186, ISBN: 978-3-319-15584-5, DOI: 10.1007/978-3-319-15585-2_20, SJR: 0.369, (Scopus), **@2015**

213. И. Георгиева, Локални процеси на пренос и химични трансформации в атмосферата, Дисертация за присъждане на образователна и научна степен "Доктор", Национален институт по Геофизика, Геодезия и География към Българската академия на науките, София, 2017, **@2017**

2007

32. Atanassov, E.**,** Gurov, T.**,** **Karaivanova, A.**. SALUTE Application for Quantum Transport-New Grid Implementation Scheme. Proceedings of the Spanish Conference on e-Science Grid Computing, CIEMAT; Madrid (Spain), 2007, ISBN:987-84-7834-544-1, 23-32

Цитира се в:

214. София Ивановска, докторска дисертация "Квази-Монте Карло методи за интегрални уравнения" 2007, **@2007**

215. Hristov, I., Bifurcation of the Magnetic Flux Static Distributions in, Multileyered Josephson Junctions, Proceeding BGSIAM'07, 2nd Annual Meeting of the Bulgarian Section of SIAM December 20-21, 2007, pp.28-35, ISSN: 1313-3357., **@2008**

216. Syrakov, D., Prodanova, M., Spiridonov, V., Bogtchev, A., Slavov, K., Ganev, K., Miloshev, N., Yordanov, G., Gadjev, G., Todorova, A. Climate Change Impact Assessment of the Air Quality over Bulgaria, SEE-GRID-SCI User Forum 2009, pp. 95-104, ISBN 978-975-403-510-0., **@2009**

217. Manev, N. L., Grid and Simulation of Digital Communication Systems, Serdica Journal of Computing, 2010, Volume 4, Number 1 , 101p-112p, ISSN: 1312-6555, **@2010**

218. Todorova A., Syrakov, D., Gadjhev, G., Georgiev, G., Ganev, K., Prodanova, M, Miloshev, N, Spiridonov V., Bogatchev A., Slavov K., Grid Computing for Atmospheric Composition Studies in Bulgaria, Earth Science Informatics, Vol. 3, Issue 4, 2010, pp. 259-282, DOI: 10.1007/s12145-010-0072-1, SJR(2017):0.503, IF(2017): 1.628, **@2010**

219. Syrakov, D., Spiridonov, V., Ganev, K., Prodanova, M., Bogatchev, A., Miloshev, N., Slavov, K., Katragkou, E., Melas, D., Poupkou, A., Markakis, K., Exploiting GRID for Model Estimates of Regional Climate Changes and Its Impact on the Air Quality of Bulgaria, AIP Conference Proceedings, vol. 1301, issue 669, (2010); DOI: 10.1063/1.3526669, SJR(2017):0.165, **@2010**

220. Syrakov, D., Spiridonov, V., Ganev, K., Prodanova, M., Bogachev, A., Miloshev, N., Slavov, K., First Results of SEE-GRID-SCI Application CCIAQ, NMA 2010: Numerical Methods and Applications, LNCS, vol. 6046, pp 215-223, ISSN: 03029743, ISBN: 978-364218465-9, DOI: 10.1007/978-3-642-18466-6_25, 2011, SJR (2011): 0.338., **@2011**

33. **Karaivanova, A.**, Chi, H., Gurov, T.**.** Quasi-random walks on balls using c.u.d. sequences. LNCS, 4310, Springer, 2007, ISBN:978-3-540-70940-4, ISSN:0302-9743, DOI:10.1007/978-3-540-70942-8_19, 165-172. SJR:0.295

    Цитира се в:

    221. Vavalis, M., Sarailidis, G., Implementing Hybrid PDE Solvers, 2014, 10.6084/m9.figshare.1134520, **@2014**

34. Atanassov, E.**,** Georgieva, R.**,** Gurov, T.**,** Ivanovska, S.**, Karaivanova, A.**, Nedjalkov, M.**.** New Algorithms in the Grid Application SALUTE. Proceedings of the 30th International Convention MIPRO 2007 (conference on Hypermedia and Grid Systems), 1, Croatian Society for Information and Communication Technology, 2007, ISBN:978-953-233-032-8, 217-222

    Цитира се в:

    222. Hristov, I., Bifurcation of the Magnetic Flux Static Disributions in Multileyered Josephson Junctions, BGSIAM'07 Proceedings, pp. C-15- C18, 2008, ISSN: 1313-3357, **@2008**

2008

35. Atanassov, E.**,** Gurov, T.**, Karaivanova, A.**.. Ultra-fast semiconductor carrier transport simulation on the grid. Lecture Notes in Computer Science, 4818, Springer, 2008, ISSN:03029743, DOI:10.1007/978-3-540-78827-0_52, 461-469. SJR:0.295

    Цитира се в:

    223. D. Syrakov, M. Prodanova, V. Spiridonov, A. Bogtchev, K. Slavov, K. Ganev, N. Miloshev, G. Yordanov, G. Gadjev, A. Todorova, Climate Change Impact Assessment of the Air Quality over Bulgaria, SEE-GRID-SCI User Forum 2009, pp. 95-104, ISBN 978-975-403-510-0., **@2009**

    224. Manev, N. L., Grid and Simulation of Digital Communication Systems, Serdica Journal of Computing, 2010, Volume 4, Number 1, pp. 101-112, ISSN: 1312-6555, **@2010**

    225. Todorova A., Syrakov, D., Gadjhev, G., Georgiev, G., Ganev, K., Prodanova, M, Miloshev, N, Spiridonov V., Bogatchev A., Slavov K., Grid Computing for Atmospheric Composition Studies in Bulgaria, Earth Science Informatics, Vol. 3, Issue 4, 2010, pp. 259-282, 10.1007/s12145-010-0072-1, ISSN: 1865-0473, E-ISSN:1865-0481, SJR(2017): 0.503., **@2010**

36. Dimov, I.T.**,** Philippe, B.**, Karaivanova, A.**, Weihrauch, C.. Robustness and applicability of Markov chain Monte Carlo algorithms for eigenvalue problems. Applied Mathematical Modelling, 32, 8, Elsevier Inc., 2008, ISSN:0307-904X, DOI:10.1016/j.apm.2007.04.012, 1511-1529. SJR:1.283, ISI IF:2.251

    Цитира се в:

    226. Marwala, T. (2010). Finite-element-model Updating Using a Bayesian Approach. Finite-element-model Updating Using Computional Intelligence Techniques: Applications to Structural Dynamics, 183-201. (SCOPUS), **@2010**

    227. Sabelfeld, K. (2011). Stochastic algorithms in linear algebra-beyond the markov chains and von neumann-ulam scheme. In Numerical Methods and Applications (pp. 14-28). Springer Berlin Heidelberg. (SCOPUS), SJR(2011):0.322, **@2011**

    228. Vassia Atanassova, Stefka Fidanova, Ivan Popchev, Panagiotis Chountas, Generalized Nets, ACO Algorithms, and Genetic Algorithms, Monte Carlo Methods and Applications (book), Proceedings of the 8th IMACS Seminar on Monte Carlo Methods, 2011, Borovets, Bulgaria, pp. 39-46, 2013, ISBN: 978-3-11-029347-0., **@2013**

    229. Stuart R. Slattery, Parallel Monte Carlo Synthetic Acceleration methods for discrete transport problems, The University of Wisconsin - Madison, ProQuest Dissertations Publishing, 2013. 3596726., **@2013**

    230. Ji, H., Mascagni, M., & Li, Y. (2013). Convergence Analysis of Markov Chain Monte Carlo Linear Solvers Using Ulam--von Neumann Algorithm. SIAM Journal on Numerical Analysis, 51(4), 2107-2122. (SCOPUS), SJR(2013):2.235, **@2013**

    231. Sudharsun, S., Renganathan, M., Sekar, K.R., Stock Market Component Analysis Using AHP and Markov Chain, ARPN Journal of Engineering and Applied Sciences 10 (10), 2015, 4508-4521. Elsevier. ISSN: 0886-7798 SJR(2015): 2.023. (SCOPUS), **@2015**

    232. Ji, H., Li, Y., Monte Carlo Methods and Their Applications in Big Data Analysis. In Mathematical Problems in Data Science, 2015 (pp. 125-139). Springer International Publishing. (SCOPUS), **@2015**

    233. Lek-Heng Lim, Jonathan Weare, Fast Randomized Iteration: Diffusion Monte Carlo through the Lens of Numerical Linear Algebra, SIAM Rev., vol.59, issue 3, pp. 547–587, 2017, https://doi.org/10.1137/15M1040827 , SJR(2017):2.273, **@2017**

    234. В. Тодоров. Методи Монте Карло за многомерни интеграли и интегрални уравнения и приложения. Дисертация за присъждане на образователна и научна степен "Доктор". Институт по информационни и комуникационни технологии към Българската академия на науките, Секция „Паралелни алгоритми", София, 2017, **@2017**

235. Fathi Vajargah, B. Alexandrov, V., Javadi, S., Hadian, A., Novel Monte Carlo Algorithm for Solving Singular Linear Systems, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)Vol. 10862 LNCS, 2018, pp.202-206, DOI: 10.1007/978-3-319-93713-7_16, SJR (2017):0295, **@2018**

236. Wu Tao, Higher-order Random Walk Methods for Data Analysis (A Dissertation), Purdue University, ProQuest Dissertations Publishing, 2018. 10790747., **@2018**

2009

37. Ganev K., Syrakov D., Prodanova M., Atanassov E.**,** Gurov T.**,** **Karaivanova A.**, Miloshev N., Chervenkov H. Grid Computing for Air Quality and Environmental: Studies in Bulgaria. EnviroInfo 2009 (Berlin), Environmental Informatics and Industrial Environmental Protection: Concepts, Methods and Tools, Shaker Verlag, 2009, ISBN:978-3-8322-8397-1, 147-155

Цитира се в:

237. R. Hristova, S. Ivanovska, M. Durchova, Performance Analysis of the Regional Grid Resources for an Environmental Modeling Application, LSSC 2013: Large-Scale Scientific Computing, LNCS, vol. 8353, pp 507-514, https://doi.org/10.1007/978-3-662-43880-0_58, SJR(2014): 0.354., **@2014**

238. Атанас Вълев Иванов, Статистическо моделиране на качеството на въздуха, Дисертация, Пловдивски университет „Паисий Хилендарски" Факултет по математика и информатика, Катедра „Приложна математика и моделиране"., **@2015**

239. Снежана Георгиева Гочева-Илиева, Аналитични, статистически и интелигентни методи за моделиране, Дисертация, Пловдивски университет „Паисий Хилендарски" Факултет по математика и информатика, Катедра „Приложна математика и моделиране", **@2016**

240. И. Георгиева, Локални процеси на пренос и химични трансформации в атмосферата, Дисертация за присъждане на образователна и научна степен "Доктор", Национален институт по Геофизика, Геодезия и География към Българската академия на науките, София, 2017, **@2017**

38. Atanassov, E.**,** Gurov, T.**,** **Karaivanova, A.**, Ivanovska, S.**,** Durchova, M.**.** Using Sobol Sequence in Grid Environment. Proceeding of 32nd International Convention MIPRO/GVS 2009, 1, 2009, ISBN:978-953-233-044-1, 290-294

Цитира се в:

241. O. Prnjat, A. Balaz, D. Vudragovic, I. Liabotis, C. Sener, B. Marovic, M. Kozlovsky and G. Neagu, SEE-GRID eInfrastructure for Regional eScience, in: Data Driven e-Science (book, : S. Lin, E. Yen Eds.), Springer New York Dordrecht Heidelberg London, 2011, pp. 91-103, ISBN 978-1-4419-8013-7, DOI 10.1007/978-1-4419-8014-4, **@2011**

39. Syrakov, D., Prodanova, M., Ganev, K., Miloshev, N**.,** Atanassov, E.**,** Gurov, T.**,** **Karaivanova, A.**. Grid Computing for Multi-Scale Atmospheric Composition Modelling for the Balkan Region. Journal of International Scientific Publication: Ecology & Safety, 3, 2009, ISSN:1313-2563, 4-21

Цитира се в:

242. O. Prnjat, A. Balaz, D. Vudragovic, I. Liabotis, C. Sener, B. Marovic, M. Kozlovsky and G. Neagu, SEE-GRID eInfrastructure for Regional eScience, in: Data Driven e-Science (book, : S. Lin, E. Yen Eds.), Springer New York Dordrecht Heidelberg London, 2011, pp. 91-103, ISBN 978-1-4419-8013-7, DOI 10.1007/978-1-4419-8014-4, **@2011**

243. Radoslava Hristova, Sofiya Ivanovska, Mariya Durchova, Performance Analysis of the Regional Grid Resources for an Environmental Modeling Application, LSSC 2013: Large-Scale Scientific Computing, vol. 8335, Springer, Berlin, pp 507-514, ISBN 978-3-662-43879-4, DOI: 10.1007/978-3-662-43880-0_58, **@2014**

244. Ивелина Христова Георгиева, Локални процеси на пренос и химични трансформации в атмосферата, АВТОРЕФЕРАТ на дисертация за придобиване на образователна и научна степен "Доктор" по специалност 01.04.08 "Физика на океана, атмосферата и околоземното пространство" http://niggg.bas.bg/wp-content/uploads/2017/05/avto_geo.pdf, **@2017**

40. Syrakov, D., Prodanova, M., Ganev, K., Miloshev, N., Atanassov, E.**,** Gurov, T.**,** **Karaivanova, A.**. The grid computing – Powerful tool for Multi-Scale Atmospheric Composition Modelling. 9th International Multidicsciplinary Scientific Geoconference and EXPO - Modern Management of Mine Producing, Geology and Environmental Protection, SGEM 2009, 2, Surveying Geology & Mining Ecology Management (SGEM), 2009, ISBN:978-954918181-4, 365-372

Цитира се в:

245. Ognjen Prnjat, Antun Balaz, Dusan Vudragovic, Ioannis Liabotis, Cevat Sener, Branko Marovic, Miklos Kozlovszky, Gabriel Neagu, SEE-GRID eInfrastructure for Regional eScience, Data Driven e-Science, pp. 91-103, 2011, ISBN: 978-1-4419-8013-7, DOI: 10.1007/978-1-4419-8014-4_7, **@2011**

2010

41. Atanassov, E**.**, **Karaivanova, A.**, Gurov, T**.**, Ivanovska, S**.**, Durchova, M**.**, Dimitrov, D.S**.**. Quasi-Monte Carlo integration on the grid for sensitivity studies. Earth Science Informatics, 3, 4, Springer-Verlang, 2010, ISSN:1865-0473, DOI:10.1007/s12145-010-0069-9, 289-296. SJR:0.24

Цитира се в:

246. Zhangshuan Hou, Maoyi Huang, L. Ruby Leung, Guang Lin, Daniel M. Ricciuto Sensitivity of surface flux simulations to hydrologic parameters based on an uncertainty quantification framework applied to the Community Land Model, Journal of Geophysical Research, VOL. 117, issue 15, D15108, doi:10.1029/2012JD017521, 2012 , Impact Factor: 3.454, **@2012**

247. N. Terry, Z. Hou, S. S. Hubbard, Estimating dielectric permittivity variations using tomographic GPR data through entropy-Bayesian inversion integrated with efficient sampling and pilot points(Conference Paper), 26th Symposium on the Application of Geophysics to Engineering and Environmental Problems 2013, SAGEEP 2013, 2013, pp. 62-84, ISBN: 978-162748381-0., **@2013**

248. Hou, Zhangshuan, Terry, Neil C., and Hubbard, Susan S. Entropy-Bayesian Inversion of Time-Lapse Tomographic GPR data for Monitoring Dielectric Permittivity and Soil Moisture Variations. United States: N. p., 2013. Web. doi:10.2172/1069207., **@2013**

249. Z. Hou, D. H. Bacon, D. W. Engel, G. Lin, Y. Fang, H. Ren, Z. Fang, Uncertainty analyses of CO_2 plume expansion subsequent to wellbore CO_2 leakage into aquifers, International Journal of Greenhouse Gas Control, 2014, Volume 27, pp. 69-80, DOI: 10.1016/j.ijggc.2014.05.004, Impact Factor: 4.064, **@2014**

42. **Atanassov, E.**, **Karaivanova, A.**, **Ivanovska, S.**. Tuning the Generation of Sobol Sequence with Owen Scrambling. Large-Scale Scientific Computing, 5910, 2010, DOI:10.1007/978-3-642-12535-5_54, 459-466. SJR:0.322

Цитира се в:

250. Vasseur, O., Azarian, A., Jolivet, V., Bourdon, P., Capability of high intrinsic quality Space Filling Design for global sensitivity analysis and metamodelling of interference optical systems, Chemometrics and Intelligent Laboratory Systems, Vol.113, 2012, pp. 10-18, DOI: 10.1016/j.chemolab.2011.05.008, SJR(2012): 0.87, **@2012**

251. Hou, Z., Engel, D.W., Lin, G., Fang, Y., Fang, Z., An Uncertainty Quantification Framework for Studying the Effect of Spatial Heterogeneity in Reservoir Permeability on CO_2 Sequestration, Mathematical Geosciences, Vol. 45, Issue 7, 2013, pp. 799-817, DOI: 10.1007/s11004-013-9459-0, SJR(2013): 0.839., **@2013**

252. S.K. Pandey, M.A. Zaveri, Optimized deployment strategy for efficient utilization of the Internet of Things, 2016 IEEE International Conference on Advances in Electronics, Communication and Computer Technology, ICAECCT 2016, 2017, Article number 7942581, pp. 192-197, DOI: 10.1109/ICAECCT.2016.7942581., **@2017**

253. Yanan Sun, Bing Xue, Mengjie Zhang, Evolving Deep Convolutional Neural Networks for Image Classification, Computer Science, Neural and Evolutionary Computing, 2017, https://arxiv.org/abs/1710.10741, **@2017**

2011

43. Atanassov, E**.**, Gurov, T**.**, **Karaivanova, A.**. Capabilities of the HPC cluster at IICT-BAS. Automatika and Informatika, 2, 2011, ISSN:0861 -7562, 7-11

Цитира се в:

254. R. Hristova and G. Goranov, User-level framework for performance monitoring of HPC applications, AIP Conference Proceedings 1561, pp. 144 (2013), http://dx.doi.org/10.1063/1.4827223, AIP Publishing, ISBN: 978-0-7354-1189-0, SJR: 0.161, (Scopus), **@2013**

255. I.N. Cvijetić, D.D. Petrović, T.Ž. Verbić, I.O. Juranić, B.J. Drakulić 'Human Serum Albumin Binding of 2-[(Carboxymethyl)sulfanyl]-4-oxo-4-(4-tert-butylphenyl) butanoic Acid and its Mono-Me Ester', J. ADMET & DMPK 2 (2014), pp. 126-142, doi: 10.5599/admet.2.2.28. ISSN: 1848-7718., **@2014**

256. Hristova, R., Ivanovska, S., Durchova, M., Performance Analysis of the Regional Grid Resources for an Environmental Modeling Application, LSSC 2013, LNCS 8353, 507-514, 2014, DOI: 10.1007/978-3-662-43880-0_58, Springer-Verlag, Berlin, Heidelberg, ISSN: 03029743 ISBN: 978-366243879-4, SJR 0.310 (Scopus), **@2014**

257. Maja D. Vitorović-Todorovića, Catherine Koukoulitsab, Ivan O. Juranićc, Ljuba M. Mandićd, Branko J. Drakulićc, Structural modifications of 4-aryl-4-oxo-2-aminylbutanamides and their acetyl- and butyrylcholinesterase inhibitory activity. Investigation of AChE-ligand interactions by docking calculations and molecular dynamics simulations, European J. of Med. Chem., 2014, V. 81, pp. 158–175, ELSEVIER, ISSN 0223-5234, http://dx.doi.org/10.1016/j.ejmech.2014.05.008, IF 3.499 (2013) . (Scopus), **@2014**

258. Cvijetic, I.N., Muhammet Tanç, Ivan O. Juranić, Tatjana Verbić, Claudiu T. Supuran, Branko J. Drakulić, 5-Aryl-1H-pyrazole-3-carboxylic acids as selective inhibitors of human carbonic anhydrases IX and XII, Bioorganic & Medicinal Chemistry (2015), Volume 23, Issue 15, 1 August 2015, Pages 4649–4659, Elsevier, doi: http://dx.doi.org/10.1016/j.bmc.2015.05.052, Impact Factor 2.923 (2014) (Scopus), **@2015**

259. Ilija N. Cvijetić, Muhammet Tanç, Ivan O. Juranić, Tatjana Ž. Verbić, Claudiu T. Supuran, Branko J. Drakulić, Interactions of 5-aryl-1H-pyrazole-3-carboxylic acids with four human carbonic anhydrase isoforms - a molecular modelling perspective, Organic Chemistry, 52. savetovanje Srpskog hemijskog društva, Novi Sad, 29. i 30. maj 2015, pp. 90-95, ., **@2015**

2012

44. Gurov, T.**,** Ivanovska, S.**, Karaivanova, A.**, Manev, N.. Monte Carlo methods using new class of congruential generators. AISC, ICT Innovations 2011, 150, Springer, 2012, ISBN:978-3-642-28663-6, ISSN:1867-5662, DOI:10.1007/978-3-642-28664-3_24, 257-267. SJR:0.149

Цитира се в:

260. Mitra, A. Kundu, CA based cost optimized PRNG for Monte-Carlo simulation of distributed computation, Proceeding CUBE '12 Proceedings of the CUBE International Information Technology Conference, Pages 332-337, doi: 10.1145/2381716.2381778., **@2012**

261. Mitra, A., Kundu, A., Cost optimized random sampling in cellular automata for digital forensic investigations, Studies in Computational Intelligence, Vol. 555, pp. 79-95, 2014. DOI: 10.1007/978-3-319-05885-6-5, in book: Intelligence Systems Reference Library: Computational Intelligence in Digital Forensics, Publisher: Springer 2014, SJR(2014): 0.217, **@2014**

45. Анета Караиванова. Стохастични числени методи и симулации. Деметра ЕООД, 2012, ISBN:978-954-9526-78-3, 102

Цитира се в:

262. V. Todorov. Monte Carlo methods for multidimensional integrals and integral equations and applications, PhD thesis, IICT-BAS, Bulgaria, pp 3-24, 2017, e-ISSN: 1314-6351, **@2017**

46. Atanassov, E.**,** Gurov, T.**, Karaivanova, A.**. Security issues of the combined usage of Grid and Cloud resources. MIPRO, 2012 Proceedings of the 35th International Convention, IEEE, 2012, ISBN:978-953233072-4, 417-420

Цитира се в:

263. Yaser Ghanam, Jennifer Ferreira, Frank Maurer, Emerging Issues & Challenges in Cloud Computing— A Hybrid Approach, Journal of Software Engineering and Applications, 2012, 5, 923-937 http://dx.doi.org/10.4236/jsea.2012.531107, Published Online November 2012 (http://www.SciRP.org/journal/jsea) , SJR(2012): 0.135, **@2012**

264. Thanapal P., Nishanthi S.P, Efficient Parallel Data Processing in the Cloud, International Journal on Computer Science and Engineering (IJCSE), Vol. 5, No 05 May 2013, pp. 338-342, ISSN: 0975-3397, **@2013**

265. Ali, O., Soar, J., Yong, J., An investigation of the challenges and issues influencing the adoption of cloud computing in Australian regional municipal governments, () Journal of Information Security and Applications, 2016, 27-28, pp. 19-34. DOI: 10.1016/j.jisa.2015.11.006, SJR: 0.375 (2016), (SCOPUS), **@2016**

266. Omar Massoud Salim Hassan Ali. "THE PERCEIVED BENEFITS OF CLOUD COMPUTING TECHNOLOGY FOR REGIONAL MUNICIPAL GOVERNMENTS AND BARRIERS TO ADOPTION". PhD Thesis in University of Southern Queensland , Australia, 2016, pages 366., **@2016**

2013

47. Karaivanova, A., Atanassov, E.**,** Gurov, T.**.** Monte Carlo Simulation of Ultrafast Carrier Transport: Scalability Study. Procedia Computer Science, 18, Elsevier, 2013, ISSN:1877-0509, DOI:10.1016/j.procs.2013.05.401, 2298-2306. SJR:0.236

Цитира се в:

267. Fedorko, G., Rosová, A., Molnár, V., The application of computer simulation in solving traffic problems in the urban traffic management in Slovakia, Theoretical and Empirical Researches in Urban Management, 9 (3), pp. 5-17, 2014, , SJR: 0.261 (2014), **@2014**

2014

48. Atanassov, E.**,** Gurov, T.**, Karaivanova,** A.**,** Ivanovska, S.**,** Durchova, M.**,** Georgiev, D.**,** Dimitrov, D.**.** Tuning for Scalability on Hybrid HPC Cluster. Mathematics in Industry, Cambridge Scholar Publishing, 2014, ISBN:978-1-4438-6401-5, 64-77

Цитира се в:

268. John P. Ferguson, Dean Palejev, P-value calibration for multiple testing problems in genomics, , Volume 13, Issue 6, De Gruyter, Published Online: 2014-10-18 | DOI: https://doi.org/10.1515/sagmb-2013-0074, 2014, **@2014**

269. Stoykov, S. and Margenov, S., Scalability of Shooting Method for Nonlinear Dynamical Systems, Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, pp. 401-408, ISSN:0302-9743, DOI: 10.1007/978-3-319-26520-9_45, SJR: 0.339 (Scopus), **@2015**

270. Shterev K. S., Iterative process acceleration of calculation of unsteady, viscous, compressible, and heat-conductive gas flows, Int. J. Numer. Meth. Fluids, 2015, 77, pp. 108–122, doi: 10.1002/fld.3979, IF: 1.244 (SCOPUS), **@2015**

271. Stoykov, S., Margenov, S., Scalable parallel implementation of shooting method for large-scale dynamical systems. Application to bridge components, Journal of Computational and Applied Mathematics, 2016, 293, pp. 223-231. DOI: 10.1016/j.cam.2015.04.015, Impact Factor: 1.328, (SCOPUS), **@2016**

272. Grigorova, D., Gueorguieva, R., Correlated probit analysis of repeatedly measured ordinal and continuous outcomes with application to the Health and Retirement Study, Statistics in Medicine, 2016, 35 (23), pp. 4202-4225. DOI: 10.1002/sim.6982, Impact Factor: 1.533, (SCOPUS), **@2016**

273. A. Tchorbadjieff, Using Branching processes to simulate cosmic rays cascades, Pliska Studia Mathematica, 27 , 2017, pp. 103-114, , **@2017**

274. Tchorbadjieff A. (2018) An Automatic Tracking System for Natural Hazard Events with Satellite Remote Sensing. In: Stojanov G., Kulakov A. (eds) ICT Innovations 2016. ICT Innovations 2016. Advances in Intelligent Systems and Computing, vol 665. Springer, pp. 240-249, , **@2017**

275. Kr. S. Shterev, GPU implementation of algorithm SIMPLE-TS for calculation of unsteady, viscous, compressible and heat-conductive gas flows, Computational Engineering, Finance, and Science (cs.CE); Mathematical Software (cs.MS), 2018. (https://arxiv.org/pdf/1802.04243.pdf), **@2018**

49. Atanassov, E.**,** Gurov, T.**, Karaivanova, A.**. Simulation of Electron Transport Using HPC Infrastructure in South-Eastern Europe. Modeling and Optimization in Science and Technologies, 2, Springer Verlag, 2014, ISBN:978-3-319-01520-0, ISSN:21967326, DOI:10.1007/978-3-319-01520-0-1, 1-13

Цитира се в:

276. A. Bosakova-Ardenska, M. Apostolov, IMPLEMENTATION OF FAST PARALLEL SORTING ALGORITHM WITH C AND MPI, International Scientific Conference "UNITECH 2016" , pp II-287 -II-291, **@2016**

2015

50. Atanassov, E.**,** Gurov, T.**, Karaivanova, A.**. Energy aware performance study for a class of computationally intensive Monte Carlo algorithms. Computers and Mathematics with Applications, 70, 11, Elsevier, 2015, ISSN:0898-1221, DOI:10.1016/j.camwa.2015.07.014, 2719-2725. SJR:1.121, ISI IF:1.697

Цитира се в:

277. Pavel Karban, Petr Kropik, Vaclav Kotlan, Ivo Dolezel, Bayes approach to solving T.E.A.M. benchmark problems 22 and 25 and its comparison with other optimization techniques, in Applied Mathematics and Computation, August 2017, DOI: 10.1016/j.amc.2017.07.043, SJR: 0.957, IF (2016): 1.738, **@2017**

51. Alexandrov, V., Esquivel-Flores, O., Ivanovska, S, **Karaivanova, A.**. On the Preconditioned quasi-Monte Carlo Algorithm for Matrix Computations. Lecture Notes in Computer Science, 9374, Springer International Publishing, 2015, ISBN:978-3-319-26519-3, ISSN:0302-9743, DOI:10.1007/978-3-319-26520-9_17, 163-171. SJR:0.339

Цитира се в:

278. 4. D.Davila Foyo, Optimization of a parallel Monte Carlo method for linear algebra problems, Projecte Final de Màster Oficial, 2016, **@2016**

279. 3. Davila, D., Alexandrov, V., Esquivel-Flores, O.A., On monte carlo hybrid methods for linear algebra, Proceedings of ScalA 2016: 7th Workshop on Latest Advances in Scalable Algorithms for Large-Scale Systems - Held in conjunction with SC16: The International Conference for High Performance Computing, Networking, Storage and Analysis, 2017, Article number 7836600, pp. 81-88, DOI: 10.1109/ScalA.2016.015., **@2017**

280. Axelsson, O., Neytcheva, M., & Liang, Z.-Z. (2017). Parallel solution methods and preconditioners for evolution equations, Technical report Department of Information Technology, Uppsala University), Mathematical Modelling and Analysis, Vol. 23, Issue 2, 2018, pp. 287-308, DOI: 10.3846/mma.2018.01824 , ISSN: 1404-3203, **@2017**

281. 1. Neytcheva, M., Holmgren, S., Bull, J. Email Author, Dorostkar, A., Kruchinina, A., Nikitenko, D., Popova, N., Shvets, P., Teplov, A., Voevodin, V., Voevodin, V., Multidimensional performance and scalability analysis for diverse applications based on system monitoring data, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)Vol. 10777, LNCS, 2018, pp. 417-431, DOI: 10.1007/978-3-319-78024-5_37, SJR(2017): 0.295., **@2018**

282. 5. Owe Axelsson, Maya Neytcheva; Zhao-Zheng Liang, PARALLEL SOLUTION METHODS AND PRECONDITIONERS FOR EVOLUTION EQUATIONS, Mathematical Modelling & Analysis, Vol.23 No.2, 2018, DOI: https://doi.org/10.3846/mma.2018.018, **@2018**

2016

52. Atanassov, E**.**, **Karaivanova, A.**, Gurov, T**.** Services And Infrastructure For Virtual Research Environments - For Use By Science And Business. Industry 4.0, 1, 2, Sci Tech Union of Mechanical, 2016, ISSN:2543-8582, 110-113

Цитира се в:

283. Miljan Bigović, Žarko Zečević, Luka Filipović, Božo Krstajić, Verification of the three-dimensional structure of synthesized molecule by molecular dynamic simulations, IEEE EUROCON 2017 -17th International Conference on Smart Technologies, pp. 944-948, DOI: 10.1109/EUROCON.2017.8011250, Electronic ISBN: 978-1-5090-3843-5, USB ISBN: 978-1-5090-3842-8, Print on Demand(PoD) ISBN: 978-1-5090-3844-2, **@2017**

53. Atanassov, E**.**, Gurov, T**.**, **Karaivanova, A.**, Ivanovska, S**.**, Durchova, M**.**, Dimitrov, D**.**. On the parallelization approaches for Intel MIC architecture. AIP Conference Proceedings, 1773, AIP Publishing, 2016, ISBN:978-073541431-0, ISSN:0094-243X, DOI:10.1063/1.4964983, 070001-1-070001-9. SJR:0.165

Цитира се в:

284. И. Георгиева, Локални процеси на пренос и химични трансформации в атмосферата, Дисертация за присъждане на образователна и научна степен "Доктор", Национален институт по Геофизика, Геодезия и География към Българската академия на науките, София, 2017, **@2017**

285. D. PALEJEV AND M. SAVOV, ON THE CONVERGENCE OF THE BENJAMINI-HOCHBERG PROCEDURE, https://www.researchgate.net/publication/319403110_ON_THE_CONVERGENCE_OF_THE_BENJAMINI-HOCHBERG_PROCEDURE, 2017, **@2017**

286. Dean Palejev, Comparison of RNA-Seq Differential Expression Methods, Cybernetics and Information Technologies, 17, 5, 2017, ISSN: 1311-9702, 60-67. SJR: 0.204 (2017), **@2017**

287. Gadzhev, G., Georgieva, I., Ganev, K., Ivanov, V., Miloshev, N., Chervenkov, H., Syrakov, D., Climate applications in a virtual research environment platform, Scalable Computing, Vol. 19, Issue 2, 2018, pp. 107-118, DOI: 10.12694/scpe.v19i2.1347, SJR(2017): 0.18., **@2018**

288. Gadzhev, G., Ivanov, V., Ganev, K., Chervenkov, H., TVRegCM numerical simulations - preliminary results, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Volume 10665 LNCS, 2018, Pages 266-274., **@2018**

289. Georgieva, I., Gadzhev, G., Ganev, K., Miloshev, N., Computer simulations of atmospheric composition in urban areas. some results for the City of Sofia, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Volume 0665 LNCS 2018, pp. 474-482., **@2018**