

## Литература

- Бахвалов Н.С., Жидков Н.П., Кобельков Г.М.** (1987) Численные методы. – М.: Наука.
- Березин И.С., Жидков И.П.** (1966). Методы вычислений.-М.:Наука
- Воеводин В.В., Воеводин Вл.В.** (2002). Параллельные вычисления. – СПб.: БХВ-Петербург.
- Гергель, В.П., Стронгин, Р.Г.** (2001). Основы параллельных вычислений для многопроцессорных вычислительных систем. - Н.Новгород, ННГУ (2 изд., 2003).
- Гергель В.П., Стронгин Л.Г., Стронгин Р.Г.** (1987). Метод окрестностей в задачах распознавания // Изд. АН СССР. Техническая кибернетика. №4. С. 14-22.
- Корнеев В.В.** (1999) .Параллельные вычислительные системы. – М.: Нолидж.
- Корнеев В.В.** (2003) Параллельное программирование в MPI. Москва-Ижевск: Институт компьютерных исследований,2003
- Немнюгин С., Стесик О.** (2002). Параллельное программирование для многопроцессорных вычислительных систем – СПб.: БХВ-Петербург.
- Самарский А.А., Гулин А.В.** (1989). Численные методы – М.: Наука.
- Стронгин Р.Г., Маркин Д.Л.** (1986). Минимизация многоэкстремальных функций при невыпуклых ограничениях // Кибернетика. №4. С. 64-69.
- Стронгин Р.Г.** (1978). Численные методы в многоэкстремальных задачах. М.: Наука.
- Таненбаум Э.** (2002) . Архитектура компьютера. – СПб.: Питер.
- Тихонов А.Н., Самарский А.А.** (1977). Уравнения математической физики. – М.: Наука.
- Хамахер К., Вранешич З., Заки С.** (2003). Организация ЭВМ. –СПб:Питер.
- Akl, S. G.** (1985). Parallel Sorting Algorithms. – Orlando, FL: Academic Press
- Andrews, G. R.** (2000). Foundations of Multithreaded, Parallel, and Distributed Programming.. – Reading, MA: Addison-Wesley (русский перевод Эндриус Г.Р. Основы многопоточного, параллельного и распределенного программирования. – М.: Издательский дом "Вильямс", 2003)
- Amdahl, G.** (1967). Validity of the single processor approach to achieving large scale computing capabilities. In AFIPS Conference Proceedings, Vol. 30, pp. 483-485, Washington, D.C.: Thompson Books.
- Barker, M.** (Ed.) (2000). Cluster Computing Whitepaper at <http://www.dcs.port.ac.uk/~mab/tfcc/WhitePaper/>.
- Barnard, S.** (1995). PMRSB: Parallel multilevel recursive spectral bisection. In Proc. Supercomputing '95.
- Berger, M., Bokhari, S.** (1987). Partitioning strategy for nonuniform problems on multiprocessors. - IEEE Transactions on Computers, C-36(5). P. 570-580.
- Bertsekas, D.P., Tsitsiklis, J.N.** (1989). Parallel and distributed Computation. Numerical Methods. - Prentice Hall, Englewood Cliffs, New Jersey.
- Blackford, L. S., Choi, J., Cleary, A., D'Azevedo, E., Demmel, J., Dhillon, I., Dongarra, J. J., Hammarling, S., Henry, G., Petitet, A., Stanley, D. Walker, R.C. Whaley, K.** (1997). Scalapack Users' Guide (Software, Environments, Tools). Soc for Industrial & Applied Math.
- Buyya, R.** (Ed.) (1999). High Performance Cluster Computing. Volume1: Architectures and Systems. Volume 2: Programming and Applications. - Prentice Hall PTR, Prentice-Hall Inc.
- Cormen, T.H., Leiserson, C. E. , Rivest, R. L. , Stein C.** (2001). Introduction to Algorithms, 2nd Edition. - The MIT Press. (русский перевод Кормен Т., Лейзерсон Ч., Ривест Р. (1999). Алгоритмы: построение и анализ. – М.: МЦНТО.)
- Chandra, R., Dagum, L., Kohr, D., Maydan, D., McDonald, J., and Melon, R.** (2000). Parallel Programming in OpenMP. Morgan Kaufmann Publishers.
- Culler, D., Singh, J.P., Gupta, A.** (1998) Parallel Computer Architecture: A Hardware/Software Approach. - Morgan Kaufmann.
- Dally, W.J., Towles, B.P.** (2003). Principles and Practices of Interconnection Networks. - Morgan Kaufmann.
- Dongarra, J.J., Duff, L.S., Sorensen, D.C., Vorst, H.A.V.** (1999). Numerical Linear Algebra for High Performance Computers (Software, Environments, Tools). Soc for Industrial & Applied Math/
- Flynn, M.J.** (1966) Very high-speed computing systems. Proceedings of the IEEE 54(12): P. 1901-1909.
- Foster, I.** (1995). Designing and Building Parallel Programs: Concepts and Tools for Software Engineering. Reading, MA: Addison-Wesley.

- Fox, G.C. et al.** (1988). Solving Problems on Concurrent Processors.- Prentice Hall, Englewood Cliffs, NJ.
- Fox, G.C., Otto, S.W. and Hey, A.J.G.** (1987) Matrix Algorithms on a Hypercube I: Matrix Multiplication. *Parallel Computing*. 4 H. 17-31.
- George, A., Liu, J.** (1981). Computer Solution of Large Sparse Positive Definite Systems. - Prentice-Hall, Englewood Cliffs NJ.
- Gilbert, J., Miller, G., Teng, S.** (1995). Geometric mesh partitioning: Implementation and experiments. - In Proceedings of International Parallel Processing Symposium.
- Gilbert, J., Zmijewski, E.** (1987). A parallel graph partitioning algorithm for a message-passing multiprocessor. *International Journal of Parallel Programming*, pp. 498-513.
- Grama, A.Y., Gupta, A. and Kumar, V.** (1993). Isoefficiency: Measuring the scalability of parallel algorithms and architectures. *IEEE Parallel and Distributed technology*. 1 (3). pp. 12-21.
- Group, W., Lusk, E., Skjellum, A.** (1994). Using MPI. Portable Parallel Programming with the Message-Passing Interface. -MIT Press.
- Group, W., Lusk, E., Skjellum, A.** (1999a). Using MPI - 2nd Edition: Portable Parallel Programming with the Message Passing Interface (Scientific and Engineering Computation). - MIT Press.
- Group, W., Lusk, E., Thakur, R.** (1999b). Using MPI-2: Advanced Features of the Message Passing Interface (Scientific and Engineering Computation). - MIT Press.
- Gustavson, J.L.** (1988) Reevaluating Amdahl's law. *Communications of the ACM*. 31 (5). pp.532-533.
- Heath, M., Raghavan, P.** (1995). A Cartesian parallel nested dissection algorithm. *SIAM Journal of Matrix Analysis and Applications*, 16(1):235-253.
- Hockney, R. W., Jesshope, C.R.** (1988). Parallel Computers 2. Architecture, Programming and Algorithms. - Adam Hilger, Bristol and Philadelphia. (русский перевод 1 издания: Хокни Р., Джессхоуп К. Параллельные ЭВМ. Архитектура, программирование и алгоритмы. - М.: Радио и связь, 1986)
- Hockney, R.** (1994). The communication challenge for MPP: Intel Paragon and Meiko CS-2. - *Parallel Computing*, 20 (3), pp. 389-398.
- Kahaner, D., Moler, C., Nash, S.** (1988). Numerical Methods and Software. - Prentice Hall (русский перевод Каханер Д., Моулер Л., Нэш С. Численные методы и программное обеспечение. М.: Мир, 2001)
- Karypis, G., Kumar, V.** (1998). A parallel algorithm for multilevel graph partitioning and sparse matrix ordering. *Journal of Parallel and Distributed Computing*, 48(1).
- Karypis, G., Kumar, V.** (1999). Parallel multilevel k-way partitioning scheme for irregular graphs. *Siam Review*, 41(2): 278-300.
- Knuth, D. E.** (1997). The Art of Computer Programming. Volume 3: Sorting and Searching, second edition. - Reading, MA: Addison-Wesley. (русский перевод Кнут Д. (2000). Искусство программирования для ЭВМ. Т. 3. Сортировка и поиск. 2 издание - М.: Издательский дом "Вильямс")
- Kumar V., Grama, A., Gupta, A., Karypis, G.** (1994). Introduction to Parallel Computing. - The Benjamin/Cummings Publishing Company, Inc. (2nd edn., 2003)
- Kung, H.T.** (1982). Why Systolic Architecture? *Computer* 15 № 1. P. 37-46.
- Miller, G., Teng, S., Thurston, W., Vavasis, S.** (1993). Automatic mesh partitioning. - In A. George, John R. Gilbert, and J. Liu, editors, *Sparse Matrix Computations: Graph Theory Issues and Algorithms*. IMA Volumes in Mathematics and its applications. Springer-Verlag.
- Nour-Omid, B., Raefsky, A., Lyzenga, G.** (1986). Solving finite element equations on concurrent computers. - In A. K. Noor, editor, *American Soc. Mech.* P. 291-307.
- Ou, C., Ranka, S., Fox G.** (1996). Fast and parallel mapping algorithms for irregular and adaptive problems. - *Journal of Supercomputing*, 10. P. 119-140.
- Pacheco, P.** (1996). Parallel Programming with MPI. - Morgan Kaufmann.
- Patra, A., Kim, D.** (1998). Efficient mesh partitioning for adaptive hp finite element methods. - In International Conference on Domain Decomposition Methods.
- Patterson, D.A., Hennessy J.L.** (1996). Computer Architecture: A Quantitative Approach. 2d ed. - San Francisco: Morgan Kaufmann.
- Pfister, G. P.** (1995). In Search of Clusters. - Prentice Hall PTR, Upper Saddle River, NJ (2nd edn., 1998).
- Pilkington, J., Baden, S.** (1994) Partitioning with spacefilling curves. Technical Report CS94-349, Dept. of Computer Science and Engineering, Univ. of California.
- Pothen, A.** (1996). Graph partitioning algorithms with applications to scientific computing. - In D. Keyes, A. Sameh, and V. Venkatakrishnan, editors, *Parallel Numerical Algorithms*. Kluwer Academic Press.

- Quinn, M. J.** (2004). Parallel Programming in C with MPI and OpenMP. – New York, NY: McGraw-Hill.
- Raghavan, P.** (1993). Line and plane separators. - Technical Report UIUCDCS-R-93-1794, Department of Computer Science, University of Illinois, Urbana, IL 61901.
- Raghavan, P.** (1995). Parallel ordering using edge contraction. Technical Report CS-95-293, Department of Computer Science, University of Tennessee.
- Roosta, S.H.** (2000). Parallel Processing and Parallel Algorithms: Theory and Computation. Springer-Verlag, NY.
- Schloegel, K., Karypis, G., Kumar, V.** (2000). Graph Partitioning for High Performance Scientific Simulations.
- Skillicorn, D.B., Talia, D.** (1998). Models and languages for parallel computation. – ACM Computing surveys, 30, 2.
- Snir, M., Otto, S., Huss-Lederman, S., Walker, D., Dongarra, J.** (1996). MPI: The Complete Reference. - MIT Press, Boston, 1996.
- Sterling, T.** (Ed.) (2001). Beowulf Cluster Computing with Windows. - Cambridge, MA: The MIT Press.
- Sterling, T.** (Ed.) (2002). Beowulf Cluster Computing with Linux. - Cambridge, MA: The MIT Press.
- Strongin R.G., Sergeev Ya.D.** (2000). Global optimization with non-convex constraints: Sequential and parallel algorithms. Kluwer Academic Publisher, Dordrecht.
- Tanenbaum, A.** (2001). Modern Operating System. 2nd edn. – Prentice Hall (русский перевод Таненбаум Э. Современные операционные системы. – СПб.: Питер, 2002)
- Walshaw, C., Cross, M.** (1999). Parallel optimization algorithms for multilevel mesh partitioning. Technical Report 99/IM/44, University of Greenwich, London, UK.
- Xu, Z., Hwang, K.** (1998). Scalable Parallel Computing Technology, Architecture, Programming. – Boston: McGraw-Hill.
- Zomaya, A.Y.** (Ed.) (1996). Parallel and Distributed Computing Handbook. - McGraw-Hill.