

References

- [1] B. Wilkinson and M. Allen, *Parallel Programming: Techniques and Applications using Network Workstations and Parallel Computers*, Pearson Prentice Hall, 2005.
- [2] M.J.Flynn, "Some Computer Organization and Their Effectiveness," *IEEE Transaction on Computers*, v. 21, No. 5, PP. 948-960, 1972.
- [3] S.H. Roosta, *Parallel Processing and Parallel Algorithms: Theory and Computation*, Springer-Verlag New York, 2000.
- [4] S.G. Akl, *The Design and Analysis of Parallel Algorithms*, Prentice Hall, 1989.
- [5] G. Bell, "Ultracomputer: A Teraflop Before Its Time," *Communication ACM*, Vol. 35, No.8, PP. 27-47, 1992.
- [6] k. Hwang, *Advanced Computer Architecture: Parallelism, Scalability, Programmability*, McGraw Hill, 1993.
- [7] P.B. Gibbons, "What Good are Shared-Memory Models?," *International Conference on Parallel Processing Workshop on Challenges in Parallel Processing(ICPP)*, Bloomington, IL, PP. 103-114, 1996.
- [8] J. Protic', M. Tomasevic', V. Milutinovic', *Distributed Shared Memory: Concepts and Systems*, IEEE Computer Society, 1997.
- [9] T.G. Lewis and H. El-Rewini, "Parallex: A Tool for Parallel Program Scheduling," *IEEE Parallel and Distributed Technology*, Vol. 1, No. 2, PP. 64-76, May 1993.
- [10] Y.-K. Kwok and I. Ahmad, "Static Scheduling Algorithms for Allocating Directed Task Graphs to Multiprocessors," *ACM Computing Survey*, Vol. 31, No. 4, PP. 406-471, Dec. 1999.
- [11] A. Auyeung, I. Gondra, H. K. Dai, "Multi-Heuristic List Scheduling Genetic Algorithm For Task Scheduling," *Proceeding of ACM Symposium on Applied Computing (SAC)*, Melbourne, Florida, USA, PP. 721-724, March 2003.
- [12] F.A. Omara, A. Allam, "An Efficient Tasks Scheduling Algorithm for Distributed Memory Machines With Communication Delays," *Information Technology Journal (ITJ)*, Vol. 4, No. 4, PP. 326-334, 2005.
- [13] H. El-Rewini, T.G. Lewis and H.H. Ali, *Task Scheduling in Parallel and Distributed Systems*, Prentice-Hall International Editions, 1994.
- [14] S. Fujita and M. Yamashita, "Approximation Algorithms for Multiprocessor Scheduling," *IEICE Transaction of Information and Systems*, Vol. E83, No. 3,

- PP. 503-509, March 2000.
- [15] T.H. Corman, C.E. Leiserson, R.L. Rivests, "Introduction to Algorithms, MIT Press, 1990.
 - [16] E. G. Coffman, J. Sethuraman and V. G. Timkovsky, "Ideal preemptive schedules on two processors," *Acta Informatica*, Vol. 39, No. 8, PP. 597-612, July 2003.
 - [17] S. G. Akl, *Parallel Computation: Models and Methods*, Prentice-Hall, Inc., 1997.
 - [18] I. Ahmad and Y.-K Kwok, "Benchmarking and Comparison of the Task Graph Scheduling Algorithms," *Journal of Parallel and Distributed Computing*, Vol. 95, No. 2, PP. 381-422, 1999.
 - [19] P. Bouvry, J. Chassin and D. Trystram, "Efficient Solutions for Mapping Parallel Programs," *CWI-Center for Mathematics and computer science*, Amsterdam, The Netherlands, published in *Euro-Par*, PP. 379-390, 1995.
 - [20] S. Darbha and D.P. Agrawal, "Optimal Scheduling Algorithm for Distributed Memory Machines," *IEEE Transaction on Parallel and Distributed Systems*, Vol. 9, vo. 1, PP. 87-95, Jan. 1998.
 - [21] I. Park and T.Y. Choe, "An Optimal Scheduling Algorithm Based on Task Duplication," *IEEE Transaction on Computers*, Vol. 51, No. 4, PP. 444-448 April 2002.
 - [22] I. Ahmad and Y.-K. Kowk, "On Exploiting Task Duplication in Parallel Program Scheduling," *IEEE Transaction on Parallel and Distributed Systems*, Vol. 9, No. 9, PP. 872-892, Sept. 1998.
 - [23] B. Kruatrachue and T. C. Lewis, "Duplication Scheduling Heuristics (DSH): A New Precedence Task Scheduler for Parallel Processor Systems," *Technical Report*, Oregon State University, Corvallis, OR 97331, 1987.
 - [24] I. Ahmad and Y.-K. Kwok, "A Comparison of Task-Duplication-Based Algorithms for Scheduling Parallel Programs to Message-Passing Systems," *Proceedings of the 11th Annual International Symposium on High Performance Computing Systems (HPCS'97)*, Crowne Plaza Hotel, Winnipeg, Manitoba, Canada, PP. 39-50, July 1997.
 - [25] I. Ahmad and Y.-K. Kwok, "A New Approach to Scheduling Parallel Programs using Task Duplication," *Proceedings of International Conference on Parallel Processing*, North Carolina State University, NC, USA PP. 47-51, Aug 1994.
 - [26] H. Zhou," Scheduling DAGs on a Bounded Number of Processors," *Proceedings of International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'96)*, Las Vegas, Nevada, USA, Vol.2, PP. 823-834, Aug. 1996.

- [27] T. Yang and A. Gerasoulis, "DSC: Scheduling Parallel Tasks on an Unbounded Number of Processors," IEEE Transaction on Parallel and Distributed Systems, Vol. 5, No. 9, PP. 951-967, Sep.1994.
- [28] Y.-K. Kwok, I. Ahmad, " Dynamic Critical-Path Scheduling: An Effective Technique for Allocating Task Graphs to Multiprocessors," IEEE Transaction on Parallel and Distributed Systems, Vol. 7, No. 5,PP. 506-521, May 1996.
- [29] T. L. Adam, K. M. Chandy, and Dickson, "A Comparison of List Schedules for Parallel Processing Systems." Communication of ACM, Vol. 17, No. 12, PP. 685-690, Dec. 1974.
- [30] M. -Y. Wu, D. D. Gajski," Hypertool: A Programming Aid for Message-Passing Systems," IEEE Transaction on Parallel and Distributed Systems, Vol. 1, No. 3, PP. 330-343, July 1990.
- [31] N. Mehdiratta and K. Ghose, "A Bottom-Up Approach to Task Scheduling on Distributed Memory Multiprocessor," Proceeding of Intentional Conference on Parallel Processing, North Carolina State University, NC, USA, Vol. II, PP. 151-154, Aug. 1994.
- [32] H.E. Rewini and T.G. Lewis," Scheduling parallel program tasks onto arbitrary target machines," Journal of Parallel and Distributed Computing, Vol. 9, PP. 138-153, 1990.
- [33] A. Gerasoulis and T. Yang, "A Comparison of Clustering Heuristics for Scheduling Directed Acyclic Graphs onto Multiprocessors," Journal of Parallel and Distributed Computing, Vol. 16, No. 4, PP. 276-291, Dec. 1992.
- [34] A. Y. Zomaya, Parallel and Distributed Computing, Handbook, McGraw-Hill, 1996.
- [35] V. Krishnamoorthy and K. Efe, "Task Scheduling With and Without Communication Delays: A Unified Approach," European Journal of Operational Research, Vol. 89, PP. 366-379, 1996.
- [36] M.A. Palis, J.C. Liou, and D.S.L. Wei, "Task Clustering and Scheduling for Distributed Systems, "IEEE Transactions on Parallel and Distributed Systems, Vol. 7, No. 1, PP. 46-55, Jan. 1996.
- [37] M.-Y. Wu, "Modified Critical Path (MCP) Revisited" download from www.eece.urm.edu/~wu/MCP. Dec. 2005
- [38] A. Radulescu and A.J.C, van Gemund, "Low Cost Task scheduling for Distributed Memory Machines," IEEE Transactions on Parallel and Distributed Systems, Vol. 13, No. 6, PP. 648-658, June 2002.
- [39] D. A. Coley, An Introduction to Genetic Algorithms for Scientists and Engineers, World Scientific, 1999.

- [40] T.M. Nabhan and A.Y.zomaya,"A parallel Simulated Annealing Algorithms with Low Communication Overhead," IEEE Transactions on parallel and distributed systems, Vol. 6, No. 12, PP. 1226-1233, Dec. 1995
- [41] J. H. Holland, *Adaptation in Natural and Artificial Systems*, Ann Arbor. University of Michigan Press, 1975.
- [42] D. Levine, *A Parallel Genetic Algorithm for The Set Partitioning Problem*, Ph.D. thesis in computer science, Department of Mathematics and computer science, IlliNois Institute of TechNology, Chicago, USA, 1994.
- [43] E. G. Talbi and T. Muntean, "A new Approach for The Mapping Problem: A Parallel Genetic Algorithm", 1993. Download from citessr.ist.psu.edu/
- [44] F. Herrera, M. Lozano, "Fuzzy Genetic Algorithms: Issues and Models", Dept. of Science and A. I., University of Granada, Technical Report No. 18071, Granada, Spain, 1999.
- [45] M. Srinivas and L. M. Patnaik, "Adaptive Probabilities of Crossover and Mutation in Genetic Algorithm," IEEE Transactions on Systems, Man and Cybernetics, Vol. 24, No.4, PP. 656-667, April 1994.
- [46] M. A. Lee and H. Takagi, "Dynamic Control of Genetic Algorithms using Fuzzy Logic Techniques," Proceedings of the Fifth International conference on Genetic Algorithm (ICGA'93), San Mateo, CA, PP. 76-83, 1993.
- [47] S. Ali, S. M. Sait, and M. S. T. Bente, "GSA: Scheduling And Allocation Using Genetic Algorithm," Proceedings of the Conference on EURO-DAC with EURO WDHL'94, Grenoble, PP. 84-89, Sept. 1994.
- [48] E. H. Hou, N. Ansari, and H. Ren, "A Genetic Algorithm for Multiprocessor Scheduling", IEEE Transaction of Parallel Distributed Systems, Vol. 5, No.2, PP. 113-120, Feb. 1994.
- [49] I. Ahmed and M. K. Dhodhi, "Task Assignment using a Problem-Space Genetic Algorithm," Concurrency: Pract. Exper., Vol. 7, No.5, PP. 411-428, Aug. 1995.
- [50] Y. -K. Kwok and I. Ahmad, "Efficient Scheduling of Arbitrary Task Graphs to Multiprocessors Using a Parallel Genetic Algorithm," Journal of Parallel and Distributed Computing, Vol. 47, No. 1, PP. 58-77, Nov. 1997.
- [51] S.M. Alaoui, O. Frieder, T. A. EL-Ghazawi, "Parallel Genetic Algorithm for Task Mapping On Parallel Machine", 13th International Parallel Processing Symposium & 10th Symposium Parallel and Distributed Processing (IPPS/SPDP) Workshops, PP. 201-209, San Juan, Puerto Rico, April 1999.
- [52] M. Rinehart, V. Kianzad, and S. Bhattacharyya, "A Modular Genetic Algorithms for Scheduling Task Graphs," Technical Report UMIACS-TR-2003-66, Institute for Advanced Computer Studies, University of Maryland at

College Park, USA, June 2003.

- [53] T. Tsuchiya, T. Osada, and T. KikuNo, "Genetic-Based Multiprocessor Scheduling Using Task Duplication," *Microprocessors and Microsystems*, Vol. 22, PP. 197-207, 1998.
- [54] A. S. Wu, H. Yu, S. Jin, K. -C. Lin, and G. Schiavone, "An Incremental Genetic Algorithm Approach to Multiprocessor Scheduling," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 15, No. 9, PP. 824-834, Sept 2004.
- [55] A.T. Haghighat and M. Nikravan ,” A Hybrid Genetic Algorithm for Process Scheduling in Distributed Operating Systems Considering Load Balancing,” *Proceeding of Conference on Parallel and Distributed Computing and Networks(PDCN)*, Innsbruck, Austria, 2005.
- [56] Joachim Stender, ”Parallel Genetic Algorithms: Theory and applications, ” IOS press, Amsterdam, 1993.
- [57] Down load from [http://www. Kasahara.Elec.Waseda.ac.jp/schedule/](http://www.Kasahara.Elec.Waseda.ac.jp/schedule/), Sept.2005
- [58] T. Blicke and L. Thiele, "A Mathematical Analysis of Tournament Selection," *Proc. 6th International Conference on Genetic Algorithms (ICGA95)*, Morgan Kaufmann, San Francisco, CA, PP. 9-16, 1995.
- [59] S. Kumar, U. Maulik, S. Bandyopadhyay and S.K. Das, ”Efficient Task Mapping on Distributed Heterogeneous Systems for Mesh Applications”, *International Workshop on Distributed Computing*, Kolkata, India, 2001.