

Curriculum Vitae

A. Personal Data

- **Title, Name** : Prof. Dr. Cevdet Aykanat
- **Address** : Computer Eng. Dept., Bilkent University, 06800 Ankara, Turkey
- **Phone / Fax** : +90 (312) 290 1625 / +90 (312) 266 4047
- **Email** : aykanat@cs.bilkent.edu.tr
- **URL** : <http://www.cs.bilkent.edu.tr/~aykanat>

B. Academic Degrees

- **Prof.** Computer Engineering – Bilkent University 2001
- **Assoc. Prof.** Computer Engineering – Bilkent University 1995
- **Asst. Prof.** Computer Engineering – Bilkent University 1989
- **Ph.D.** Electrical and Computer Engineering – Ohio State University 1988
- **M.S.** Electrical Engineering – Middle East Technical University 1980
- **B.S.** Electrical Engineering – Middle East Technical University 1977

C. Brief Employment History

- **06/01 – present** Professor, Computer Engineering Department, Bilkent University
- **07/95 – 05/01** Associate Professor, Computer Engineering Department, Bilkent University
- **01/89 – 06/95** Assistant Professor, Computer Engineering Department, Bilkent University
- **05/87 – 09/87** Research Associate, INTEL, Supercomputer System Division, Oregon
- **05/86 – 09/86** Research Associate, INTEL, Supercomputer System Division, Oregon

D. Awards

- Science Award, METU Mustafa Parlar Foundation, 2007.
- Investigator Award, TUBITAK, 1995.

E. Honors, Scholarly and Professional Duties and Achievements

- Appointed to the Editorial Board of IEEE Transactions of Parallel and Distributed Systems as an Associate Editor, January 2009–present.
- Appointed as a member of IFIP Working Group 10.3 (Concurrent Systems) within Technical Committee 10 (Computer Systems Technology), 2004–present.
- Appointed as a member of EU-INTAS Council of Scientists (Computer Science), 2005–2008.
- Participated in the expert panels of The Research Council of Norway for the research program eVITA-eScience, Infrastructure, Theory and Applications, June 2006.
- Co-editor of *Lecture Notes in Computer Science* 3280 (2004)
- Participated in the panels for the evaluation of academic R&D projects supported by TUBITAK-EEEAG (Electrical, Electronics & Enformatics Resarch Grant Committee), 2000–present.
- Participated in the evaluation and monitoring of many industrial R&D projects supported by TUBITAK-TIDEB (Technology Forecasting and Assesment Directorate), 2000–present.
- Organizing committee co-chair of NATO ASI on Parallel Computing on Distributed Memory Multiprocessors, July 1-12, 1991, Bilkent University, Ankara, Turkey.
- NATO grant for International Collaboration in Research, 1989 –1991.
- FULBRIGHT scholarship during Ph.D. studies in USA, 1983 –1986.
- METU scholarship during B.S. studies in METU, 1973 – 1977.
- Program committee chair and member of numerous conferences and symposiums.
- Reviewed numerous articles for prestigious journals such as: *IEEE Transactions on Parallel and Distributed Systems*, *SIAM Journal on Scientific Computing*, *SIAM Review*, *Journal of Parallel and Distributed Computing*, *Information Systems*, *Data Mining and Knowledge Discovery*, *IEEE Transactions on Data and Knowledge Engineering*.

F. Current Positions of Some Former Graduate Students

Former PhD Students	Current Institution of Employment	Position
Dr. Ümit V. Çatalyürek	Ohio State University., Biomedical Info. and Elec.& Comp. Eng. Dept	Associate Professor
Dr. Bora Uçar	CERFACS, Toulouse, France	Post-doctoral researcher
Dr. B. Barla Cambazoglu	Yahoo! Research Barcelona, Spain	Post-doctoral researcher
Dr. Tahsin M. Kurc	Emory University, School of Medicine	Assistant Professor
Dr. Veysi İşler	Middle East Tech. Univ, Dept. of Computer Eng.	Associate Professor
Former MS Students		
Dr. Ali Daşdan	Yahoo Web Search, San Francisco	Manager
Dr. Mehmet Koyuturk	Case Western Reserve University, Dept. of Comp. Sci.	Assistant Professor
Dr. Tevfik Bultan	Univ. of California, Santa Barbara, Dept. of Comp. Sci.	Associate Professor
Dr. Ali Pinar	Lawrence Berkeley National Lab., HPC Research Dept.	Research Associate
Hakan Berk	Microsoft Corp. at Redmond	Software/design Eng
Ferit Fındık	Microsoft Corp. at Redmond	Software/design Eng

G. Current Research Interests

- parallel computing, parallel algorithms, combinatorial scientific computing, high performance computing
- graph-theoretic and combinatorial algorithms: the development, analysis and application of discrete algorithms for various parallel and distributed applications
- data partitioning and mapping: graph- and hypergraph-partitioning-based models for load balancing and communication minimization in decomposing irregular computational domains
- task scheduling and allocation: models, algorithms and software for adaptive task scheduling in heterogeneous distributed and grid environments
- iterative solvers: novel partitioning models, algorithms and software utilities for development of parallel iterative methods for linear-system solutions
- distributed database systems: development of data allocation and partitioning algorithms and software for efficient parallel query processing in multi-disk systems
- Grid computing: development of grid-enabled personalized search engine and grid-enabled machine learning toolkit
- Web crawling, categorization, index generation, compression, partitioning, PageRank computation and query evaluation: models and software development for efficient parallel web crawling, web categorization, index generation; index compression, index partitioning, parallel PageRank computation and parallel query evaluation
- information retrieval: development of models, algorithms, and software for efficient query processing in parallel text retrieval systems
- GIS systems: storage and access methods for aggregate queries in high performance geographic information systems
- data mining: parallel algorithm and software development for discovery of frequently-occurring patterns in very large datasets
- scientific visualization: development of adaptive remapping models and efficient parallel programs for direct volume rendering of 3D unstructured data grids

INSTITUTIONAL AND PROFESSIONAL SERVICES

- Director, Summer School (since April 2005)
- Member, University Curriculum Committee (since October 2002)
- Member, Departmental ABET Committee (since October 2003)

GRANTS

- Efficient Parallel Text Retrieval and Query Processing, September 2006 – September 2008
 - **Assignment** : Principle Investigator
 - **Sponsor** : TÜBİTAK, Contract No: 103E069
 - **Budget** : USD 90,000
- SEE-GRID-2: South Eastern European GRid Enabled eInfrastructure Development 2, May 2006 –April 2008
 - **Assignment** : Principle Investigator of Bilkent University
 - **Sponsor** : EU-FP6, Specific Support Action, Contract No: 031775.
 - **Budget** : 24,000 Euro (Bilkent), 2,000,000 Euro (total)
- EUMEDGRID: Empowering eScience across the Mediterranean, May 2006 – January 2008
 - **Assignment** : Principle Investigator of Bilkent University
 - **Sponsor** : EU-FP6, Specific Support Action, Contract No: 026024.
 - **Budget** : 5,000 Euro (Bilkent), 1,646,000 Euro (total)
- SEE-GRID: South Eastern European GRid Enabled eInfrastructure Development, MAY 2004 –APRIL 2006
 - **Assignment** : Principle Investigator of Bilkent University
 - **Sponsor** : EU-FP6, Specific Support Action, Contract No: 002356.
 - **Budget** : 76,000 Euro (Bilkent), 1,215,000 Euro (total)
- Efficient Parallel Crawling of Web Content, April 2004 – March 2006
 - **Assignment** : Principle Investigator
 - **Sponsor** : TÜBİTAK, Contract No: 103E028
 - **Budget** : USD 50,000
- Task Scheduling Algorithms for PC Clusters, Sep. 1999 – March. 2002
 - **Assignment** : Principle Investigator
 - **Sponsor** : TÜBİTAK. Contract No: 198E015
 - **Budget** : USD 30,000
- Unstructured Domain Mapping for Distributed Memory Architectures, Feb. 1995 – July 1999
 - **Assignment** : Co-ordinator (overall)
 - **Sponsor** : Commission of the European Communities, Contract No: ITDC 204
 - **Budget** : 270,000 Euro
- Design and Implementation of a Parallel Direct Volume Rendering System, Sep.1995–Aug.1997
 - **Assignment** : Principle Investigator
 - **Sponsor** : TUBITAK, Contract No: EEEAG-160
 - **Budget** : USD 60,000
- Design and Implementation of a Real-Time Realistic Image Generation System for Multicomputers, Sep.1991–Aug.1994
 - **Assignment** : Principle Investigator
 - **Sponsors** : INTEL SSD 100791-2; TUBITAK EEEAG-5
 - **Budget** : USD 150,000 (INTEL), USD 70,000 (TUBITAK)

H. Publication and Citation Statistics

- Total number of articles in ISI Journals: 58
- Total number of papers in conference proceedings: 60
- Total number of citations in ISI (SCI, SSCI) Indexes: 330
- Total number of citations in Google Scholar: > 1000

I. Articles in Refereed (ISI: SCI and SSCI) Journals (JCR-2005: Impact Factor / Cited Half-Life)

Prof. Aykanat has published all of the following publications (except #28) together with his graduate students.

1. E. Demir and C. Aykanat, "A Link-Based Storage Scheme for Efficient Aggregate Query Processing on Clustered Road Networks," Information Systems, accepted for publication. (1.027 / 8.7)
2. C. Aykanat, B.B. Cambazoglu and B. Ucar, "Multi-level Direct K-way Hypergraph Partitioning with Multiple Constraints and Fixed vertices," Journal of Parallel and Distributed Computing, vol. 68, pp 609–625, 2008. (0.900 / 8).
3. T. Kucukyilmaz, B.B. Cambazoğlu, C. Aykanat, and F. Can, "Chat Mining: Predicting User and Message Attributes in Computer-Mediated Communication," Information Processing & Management, vol. 44(4), pp. 1448-1466, 2008. (1.192 / 7.7)
4. A. Pinar, E.K. Tabak and C. Aykanat, "One-Dimensional Partitioning for Heterogeneous Systems: Theory and Practice," Journal of Parallel and Distributed Computing, vol. 68, pp. 1473–1486, 2008. (0.900 / 8).
5. E. Demir, C. Aykanat and B. B. Cambazoglu, "Clustering Spatial Networks for Aggregate Query Processing, a Hypergraph Approach," Information Systems, vol. 33(1), pp. 1–17, 2008. (1.027 / 8.7)
6. B. Ucar and C. Aykanat, "Revisiting Hypergraph Models for Sparse Matrix Partitioning," SIAM Review, vol. 49(4), pp. 595–603, 2007. (7.213 / 10)
7. B. Uçar and C. Aykanat, "Partitioning Sparse Matrices for Parallel Preconditioned Iterative Methods," SIAM Journal on Scientific Computing, vol. 29(4), pp. 1683–1709, 2007. (1.509 / 8.7)
8. B.B. Cambazoğlu and C. Aykanat, "Hypergraph-Partitioning-Based Remapping Models for Image-Space-Parallel Direct Volume Rendering of Unstructured Grids," IEEE Transactions on Parallel and Distributed Systems, vol. 18(1), pp. 3–16, 2007. (1.462 / 6.7)
9. K. Kaya, B. Uçar and C. Aykanat, "Heuristics for Scheduling File-Sharing Tasks on Heterogeneous Systems with Distributed Repositories," Journal of Parallel and Distributed Computing, vol. 67, pp. 271–285, 2007. (0.900 / 8)
10. B.B. Cambazoğlu, E. Karaca, T. Kucukyilmaz, A. Turk and C. Aykanat "Architecture of a Grid-Enabled Search Engine," Information Processing & Management, vol.43, pp. 609–623, 2007. (1.192 / 7.7)
11. B. Uçar, C. Aykanat, M. Pinar and T. Malas, "Parallel Image Restoration Using Surrogate Constraint Methods," Journal of Parallel and Distributed Computing, vol. 67, pp. 186–204, 2007. (0.900 / 8)
12. C. Aykanat, B. B. Cambazoğlu, F. Findik, and T.M. Kurc, "Adaptive Decomposition and Remapping Algorithms for Object-Space-Parallel Direct Volume Rendering of Unstructured Grids," Journal of Parallel and Distributed Computing, vol. 67, pp. 77–99, 2006. (0.900 / 8)
13. B.B. Cambazoğlu and C. Aykanat, "Performance of Query Processing Implementations in Ranking-Based Text Retrieval Systems Using Inverted indices," Information Processing & Management. vol. 42(4), pp. 875–898, 2006. (1.192 / 7.7)
14. K. Kaya and C. Aykanat, "Iterative-Improvement-Based Heuristics for Adaptive Scheduling of Tasks Sharing Files on Heterogeneous Master-Slave Environments," IEEE Transactions on Parallel and Distributed Systems, vol. 17(8), pp. 883–896, August 2006. (1.462 / 6.7)
15. B. Ucar, C. Aykanat, K. Kaya and M. İkinci, "Task Assignment in Heterogeneous Systems," Journal of Parallel and Distributed Computing, vol. 66(1), pp. 32–46, 2006. (0.900 / 8)
16. B.B. Cambazoğlu, A. Çatal and C. Aykanat, "Effect of Inverted Partitioning Schemes on Performance of Query Processing in Parallel Text Retrieval Systems," Lecture Notes in Computer Science, vol. 4263, pp. 717–725, 2006. (0.402 / 4.4)
17. T. Kucukyilmaz, B.B. Cambazoğlu, C. Aykanat and F. Can, "Chat Mining for Gender Prediction," Lecture Notes in Computer Science, vol. 4243, pp. 274–283, 2006. (0.402 / 4.4)
18. M. Koyuturk and C. Aykanat, "Iterative-Improvement Based Declustering Heuristics for Multi-Disk Databases," Information Systems, vol. 30, pp. 47–70, 2005. (1.027 / 8.7)

19. B. Ucar and C. Aykanat, "Encapsulating Multiple Communication-Cost Metrics in Partitioning Sparse Rectangular Matrices for Parallel Matrix-Vector Multiplies," SIAM Journal on Scientific Computing, vol. 25(6), pp. 1837–1859, 2004. (1.509 / 8.7)
20. C. Aykanat, A. Pinar, and U.V. Catalyurek, "Permuting Sparse Rectangular Matrices into Block Diagonal Form," SIAM Journal on Scientific Computing, vol. 25(6), pp. 1860–1879, 2004. (1.509 / 8.7)
21. M. Özdal and C. Aykanat, "Hypergraph Models and Algorithms for Data-Pattern Based Clustering," Data Mining and Knowledge Discovery, vol. 9, pp. 29–57, 2004. (2.105 / 7.3)
22. A. Pinar and C. Aykanat, "Fast Optimal Load Balancing Algorithms for 1D Partitioning," Journal of Parallel and Distributed Computing, vol. 64, pp. 974–996, 2004. (0.900 / 8)
23. B.B. Cambazoglu, A. Turk and C. Aykanat, "Data-Parallel Web-Crawling Models," Lecture Notes in Computer Science, vol. 3280, pp. 801–809, 2004. (0.402 / 4.4)
24. B. Ucar and C. Aykanat, "A Message Ordering Problem in Parallel Programs," Lecture Notes in Computer Science, vol. 3241, pp. 131–138, 2004. (0.402 / 4.4)
25. H. Berk, C. Aykanat, and U. Gudukbay, "Direct Volume Rendering of Unstructured Grids," Computers & Graphics, vol. 27(3), pp. 387–406, 2003. (0.641 / 6.1)
26. B.B. Cambazoglu and C. Aykanat, "Image-Space Parallel Direct Volume Rendering on a Cluster of PCs," Lecture Notes in Computer Science, vol. 2869, pp. 457–464, 2003. (0.402 / 4.4)
27. B.Ucar and C.Aykanat, "Minimizing Communication Cost in Fine-Grain Partitioning of Sparse Matrices," Lecture Notes in Computer Science, vol. 2869, pp. 926–933, 2003. (0.402 / 4.4)
28. B. Abali, C. Stunkel, J. Herring, M. Banikazemi, D. Panda, and C. Aykanat, "Adaptive routing on the New Switch Chip for IBM SP Systems," Journal of Parallel and Distributed Computing, vol. 61(9), pp. 1148–1179, 2001. (0.900 / 8)
29. H. Kutluca, T.M. Kurç, and C. Aykanat, "Image-Space Decomposition Algorithms for Sort-First Parallel Volume Rendering of Unstructured Grids," Journal of Supercomputing, vol. 15, pp. 51–93, 2000. (0.482 / 4.8)
30. U.V. Çatalyürek and C. Aykanat, "Hypergraph-Partitioning-Based Decomposition for Parallel Sparse-Matrix Vector Multiplication," IEEE Transactions on Parallel and Distributed Systems, vol. 10, pp. 673–693, 1999. (1.462 / 6.7)
31. C. Aykanat, T. Bultan and I. Haritaoglu, "A Fast Neural-Network Algorithm for VLSI Cell Placement," Neural Networks, vol. 11, pp. 1671–1684, 1998. (1.665 / 7.7)
32. T.M. Kurc, C. Aykanat and B. Ozguc, "Object-Space Parallel Polygon Rendering on Hypercubes," Computers & Graphics, vol. 22(4), pp. 487–503, 1998. (0.641 / 6.1)
33. A. Dasdan and C. Aykanat, "Two Novel Multiway Circuit Partitioning Algorithms Using Relaxed Locking," IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol. 16, pp. 169–178, 1997. (1.000 / 7.7)
34. T.M. Kurc, C. Aykanat and B. Ozguc, "A Comparison of Spatial Subdivision Algorithms for Sort-First Rendering," Lecture Notes in Computer Science, vol. 1225, pp. 137–146, 1997. (0.402 / 4.4)
35. T.M. Kurc, C. Aykanat and B.Ozguc, "A Parallel Scaled Conjugate-Gradient Algorithm for the Solution Phase of Gathering Radiosity," Visual Computer, vol. 13, pp.1–9, 1997. (0.667 / 7.3)
36. A. Pinar and C. Aykanat, "An Effective Model to Decompose Linear Programs for Parallel Solution," Lecture Notes in Computer Science, vol. 1184, pp. 592–601, 1997.
37. C. Aykanat, T.K. Capin and B. Ozguc, "A Parallel Progressive Radiosity Algorithm Based on Patch Data Circulation," Computers & Graphics, vol. 20(2), pp. 307–324, 1996.
38. U.V. Catalyurek and C. Aykanat, "Decomposing Irregularly Sparse Matrices for Parallel Matrix-Vector Multiplication," Lecture Notes in Computer Science, vol. 1117, pp. 75–86, 1996.
39. T.M. Kurc, C. Aykanat and B. Ozguc, "Active Pixel Merging on Hypercube Multicomputers," Lecture Notes in Computer Science, vol. 1067, pp. 319–326, 1996.
40. N. Guven and C. Aykanat, "Dependency-Based Algorithms for Vector Processing of Sparse Matrix Forward/Backward Substitutions: Discussion," IEEE Transactions on Power Systems, vol. 11(1), p. 205, 1996.
41. E. Tanin, T.M. Kurc, C. Aykanat and B. Ozguc, "Decomposing Linear Programs for Parallel Solution," Lecture Notes in Computer Science, vol. 1041, pp. 473–482, 1996.
42. E. Tanin, T.M. Kurc, C. Aykanat and B. Ozguc, "Comparison of Two Image-Space Subdivision Algorithms for Parallel Direct Volume Rendering on Distributed Memory Multicomputers," Lecture Notes in Computer Science, vol. 1041, pp. 503–512, 1996.

43. C. Aykanat and A. Dervis, "Efficient Fast Hartley Transform Algorithms for Hypercube-Connected Multicomputers," IEEE Transactions on Parallel and Distributed Systems, vol. 6(6), pp. 561–577, 1995.
44. C. Aykanat, O. Ozgu and N. Guven, "Algorithms for Efficient Vectorization of Repeated Sparse Power System Network Computations," IEEE Transactions on Power Systems, vol. 10(1), pp. 448–456, 1995.
45. C. Aykanat and I. Haritaoglu, "An Efficient Mean Field Annealing Formulation for Mapping Unstructured Domains to Hypercubes," Lecture Notes in Computer Science, vol. 980, pp. 115–120, 1995.
46. T. Bultan and C. Aykanat, "Circuit Partitioning Using Mean Field Annealing," Neurocomputing, vol. 8, pp.171–194, 1995.
47. C. Aykanat, V. Isler and B. Ozguc, "Efficient Parallel Spatial Subdivision Algorithm for Object-Based Parallel Ray Tracing," Computer-Aided Design, vol. 26(12), pp. 883-890, 1994.
48. M. Aktihanoglu, B. Ozguc, and C. Aykanat, "MARS: A Tool Based Modeling, Animation and Parallel Rendering System," Visual Computer, vol. 11(1), pp. 1–14, 1994.
49. C. Aykanat and A. Dervis, "Efficient Overlapped FFT Algorithms for Hypercube-Connected Multicomputers," Parallel Algorithms and Applications, vol. 4, pp. 91–110, 1994.
50. I. Haritaoglu and C. Aykanat, "An Efficient Mapping Heuristic for Mesh-Connected Architectures Based on Mean Field Annealing," Lecture Notes in Computer Science, vol. 854, pp. 820–831, 1994.
51. B. Abali and C. Aykanat, "Routing Algorithms for IBM SP1," Lecture Notes in Computer Science, vol. 853, pp. 161–175, 1994.
52. I. Haritaoglu and C. Aykanat, "A Global Routing Heuristic for FPGAs Based on Mean Field Annealing," Lecture Notes in Computer Science, vol. 849, pp. 45–56, 1994.
53. T. Bultan and C. Aykanat, "A New Mapping Heuristic Based on Mean Field Annealing," Journal of Parallel and Distributed Computing, vol. 16(4), pp. 292–305, 1992.
54. C. Aykanat and F. Ozguner, "A Fault-Tolerant Hexagonal Systolic Array," Information Processing Letters, vol. 42(4), pp. 187–196, 1992.
55. C. Aykanat, T.M. Kurc, and F. Ercal, "Parallelization of Lee's Routing Algorithm on a Hypercube Multicomputer," Lecture Notes in Computer Science, vol. 487, pp. 244–253, 1991.
56. C. Aykanat, F. Ozguner and D. Scott, "Vectorization and Parallelization of the Conjugate Gradient Algorithm on Hypercube-Connected Vector Processors," Microprocessing and Microprogramming, vol. 29(2), pp. 67–82, 1990.
57. F. Ozguner and C. Aykanat, "A Reconfiguration Algorithm for Fault Tolerance in a Hypercube Multiprocessor," Information Processing Letters, vol. 29(5), pp. 247–54, 1988.
58. C. Aykanat, F. Ozguner, F. Ercal and P. Sadayappan, "Iterative Algorithms for Solution of Large Sparse Systems of Linear Equations on Hypercubes," IEEE Transactions on Computers, vol. 37(12), pp. 1554–568, 1988.

J. Scientific Leadership in Research Projects since 1997

1. “Efficient Parallel Text Retrieval and Query Processing,” TÜBİTAK* EEEAG, Project no: 106E069, Principal Investigator, September 2006 – August 2008, 90.000 USD.
2. “SEE–GRID-2 South Eastern European Grid-enabled eInfrastructure Development 2”, EU FP6, Specific Support Action, Contract no: 031775. Principal Investigator of Bilkent University (Third Party), September 2006 – April 2008, 24.000 Euro (Bilkent’s budget).
3. “New Information Society Technologies Turkey IST-Turkey,” TÜBİTAK EEEAG, Project no: 105E065, Investigator (Grid Computing Group), 25.000 USD, December 2005 – November 2008.
4. “SEE–GRID South Eastern European Grid-enabled eInfrastructure Development”, EU FP6, Specific Support Action, Contract no: 002356. Principal Investigator of Bilkent University (Third Party), May 2004 – April 2006, 76,000 Euro (Bilkent’s budget).
5. “Efficient Parallel Crawling of Web Content”, TÜBİTAK EEEAG, Project no: 103E028, Principal Investigator, April 2004 – March 2006, 40.000 USD.
6. “Task Scheduling Algorithms for PC Clusters”, TÜBİTAK EEEAG, Project no: 198E015, Principal Investigator, September 1999 – March 2002, USD 30,000.
7. “Unstructured Domain Mapping for Distributed Memory Architectures”, Commission of the European Communities, Contract No: ITDC 204, Co-ordinator, February 1995 – August 1997, 235,000 ECU.
8. “Design and Implementation of a Parallel Direct Volume Rendering System”, TÜBİTAK EEEAG, Project no: EEEAG-160, Principal Investigator, September 1995 – March 1998, USD 60,000.

K. Software packages developed

1. B. Ucar and C. Aykanat, “A Library for Parallel Sparse Matrix-Vector Multiplication,” Technical Report. BU-CE-05-02, Bilkent University, Computer Engineering Department, 2005.
2. B. B. Cambazoglu and C. Aykanat, “Harbinger Machine Learning Toolkit Manual,” Technical Report BU-CE-05-02, Bilkent University, Computer Engineering Department, 2005.
3. U.V. Catalyurek and C. Aykanat, PaToH: “A Multilevel Hypergraph Partitioning Tool for Hypergraphs,” Technical Report. BU-CE-99-05, Computer Engineering Department, Bilkent University, (Vrs1.0) 1999, (Vrs 3.0) 2001.

* TÜBİTAK: The Scientific and Technological Research Council of Turkey