CV

Name Last name Hasan DAĞ

Birth Date 25.05.1964

Title Prof. Dr.

Current Affiliation & Address
University : Kadir Has
Department : Management Information Systems (Department Head)
College : Engineering and Natural Sciences
Address : Kadir Has Üniversitesi Merkez Kampüs, Cibali 34083, Fatih, İstanbul
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Educational Background:

Degree	Field	University	Year
BSc	Electrical Engineering	İstanbul Technical University, Turkey	1987
MSc	Electrical and Computer Engineering	University of Wisconsin-Madison, USA	1990
PhD	Electrical and Computer Engineering	University of Wisconsin-Madison, USA	1995

Academic Titles:

- **Professor,** 15 March 2005**.**
- **Associate Prof.** 11 November 1998.
- **Assistant Prof.,** 18 June 1996.

Areas of Interest and Expertise:

- **Power System Distribution (**SCADA, Compensation, fault analysis, voltage drop, grounding, protection)
- **Power Transmission Systems** (Balanced and unbalanced fault analysis, power flow, short circuit analysis, FACTS, reliability and optimization)
- **Power System Analysis**
- **Information Technologies** (Operating systems, programming languages, database design and management, Client and Server Side programming)
- **Computational Science** (Parallel computing, numerical method, iterative methods, shared and distributed memory based systems, sparse matrix computation techniques, applied linear algebra)
- **Management Information Systems** (Decision Support Systems, Information system analysis and design, Data Mining and Big Data Analytics, etc.)

A partial list of Master and PhD thesis directed:

- (**Fatih Yetkin**) Eigenvalue Approach for Model Reduction Techniques in for VLS Circuits (PhD, 2012)

-
- (**Oğuzhan Ceylan**) Multiple-line Outage Modeling in Power Systems (PhD, 2012)
- (**Gürkan Soykan**) Real-time Solution Methods for Power System Transient Stability Analysis (PhD, 2011)
- (**Maryam El Oraiby**) Predicting Electricity Consumption Using Machine Learning Models with R and Python, August 2016.
- (**Mohamed Alamin**) Power Consumption Estimation Using In-Memory Database Computation, August 2016.
- (**Amirmahdi Akbari**) Comparison of In-Memory Data Platforms, August 2016.
- (**Ahmed Tallal Aladily**) The Performance-wise Comparison of Most Widely Used noSQL Databases, June 2015.
- (**Kamran Emre Sayın**) Veri Madenciliği Teknikleri ile Böbrek Nakli Geçirmiş Hastalarda Koroner Arter Kalsifikasyonunun İncelenmesi, Ocak 2013.
- (**Kazım Cesur**) .NET Yazılım Çerçevesi Kullanarak KOBİLERE Özel Bütçe Sisteminin Geliştirilmesi, Ocak 2013.
- (**Muhittin Işık**) Search Engine Optimization, June 2012.
- (**Çağıl Acar**) Tıbbi Verilerde Akıllı Yöntem Tabanlı Yeni Öznitelik Seçme Algoritması Geliştirme, Haziran 2012.
- (**Hakan Aydın**) Wireless LAN Security and a Case Study, June 2007.
- (**Buket Benek**) Farklı Parçalama Teknikleri ile Paralel ILU(k) Önkoşutlandırıcısı ve Aralık Aritmetiği Tabanlı Yeni Bir Önkoşutlandırıcı Tasarımı, Haziran 2006.
- (**Umut Utkan**) An XML based data exchange model for power system studies, July 2003.
- (**Oğuzhan Ceylan**) A modified and faster algorithm to determine Nash Equilibrium in a bilateral electricity market, June 2003.
- (**Fatih Yetkin**) Çok geniş ölçekli tüm devre ara-bağlantılarının benzetiminde model indirgeme yöntemleri, Haziran 2003.
- (**Y. Cansın Evrenosoğlu**) Elektrik güç sisteminin ayrıntılı modeli ile geçici kararlılık çözümlemesi, Haziran 2001.
- (**Bülent Oğuz**) TSCS ile sabit seri kompanzasyon sistemlerinin EMTDC/PSCAD programı kullanarak geçici durumlarda karşılaştırılması, May 2000.
- (**Banu Öztürk**) Gerilim kararlılığı için en uygun baranın seçimi, May 1999.
- (**Aysu Özyürek**) Esnek enerji iletim sistemlerinin Türkiye enerji iletim sisteminin iletim kapasitesine ektisi, May 1999.

Publications:

Journal papers:

1. D. Shehzad, Z. Khan, **H. Dağ**, Z. Bozkuş, *A Novel Hybrid Encryption Scheme to Ensure Hadoop Based Cloud Data Security*, International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No. 4, April 2016.

2. F. Yetkin, **H. Dağ**, *A Sparsity preserving spectral preconditioner for power flow analysis,* Turkish Journal of Electrical Engineering & Computer Science, 24, (2016), 370-383, doi:10.3906/elk-1304-123.

3. O. Ceylan, A. Özdemir, **H. Dağ**, *Heuristic methods for post outage voltage magnitude calculations,* Turkish Journal of Electrical Engineering & Computer Science, 24, (2016), 105-120, doi:10.3906/elk-1301-124

4. O. Ceylan, A. Özdemir, **H. Dağ**, *Double branch outage modeling and simulation: Bounded network approach,* The International Journal of Electrical Power & Energy Systems, Vol. 73.

pp. 369-379, Dec. 2015.

5. O. Ceylan, A. Özdemir, **H. Dağ**, *Branch Outage Simulation Based Contingency Screening by Gravitational Search Algorithm*, The International Review of Electrical Engineering, Vol. 7. Num. 1, Part A, pg. 3370 – 3379, January-February 2012.

6. **H. Dağ**, F. Yetkin, A. Manguoğlu, *A New Preconditioner Design Based on Spectral Division for Power Flow Analysis*, The International Review of Electrical Engineering, Vol. 5. Num. 3, Part B, May-June 2011.

7. G. Soykan, A. J. Flueck, **H. Dağ**, *Distributed Memory Parallel Transient Stability Analysis on a PC Cluster with Ethernet,* The International Review of Electrical Engineering, Vol. 5. Num. 3, Part A, June 2010.

8. O. Yaşar, **H. Dağ**, (Misafir Editör) Tr*ends in Computational Science,* International Journal of High Performance Computing Applications, 33 (2), MAR 2007.

9. O. Yaşar, **H. Dağ**, (Misafir Editör) *Trends in Parallel Computing,* Parallel Computing, 33 (2), MAR 2007.

10. B. Onat and S. D. Feyiz, **H. Dağ**, *A Parallel Implementation: Real Space Green's Function Technique,* International Journal of High Performance Computing Applications, 21 (1):66-74 SPR 2007.

11. G. Uludağ, Ş. Uyar, K. Şenel, **H. Dağ,** *Comparison of Evolutionary Techniques for Value-at-Risc Calculation,* M. Giacobini et al. (Eds): EvoWorkshops, LNCS 4448, pp. 218-227, 2007.

12. **H. Dağ**, *An Approximate Inverse Preconditioner and its Implementation for Conjugate Gradient Method,* Parallel Computing, 33 (2): 83-91 MAR 2007.

13. F. Yetkin, W. H. Schilders, **H. Dağ**, *MOESP Algorithm for Converting One-dimensional Maxwel l Equation into a Linear System,* Book Chapter D. Ciuprina and D. Ioan (Eds), Mathematics in Industry 11: Scientific Computing in Electrical Engineering SCEE 2006, Springer, 2007, ISBN 978-3-540-71979-3.

14. B. Tunç, **H. Dağ**, *AClass: A classification algorithm based on association rule mining,* WSEAS Transactıons on Informatıon Science & Applications, Issue 3, Volume 3, pp. 570-575, March 2006.

15. G. Uludağ, K. Şenel, A. Ş. Etaner-Uyar, **H. Dağ**, *ML estimation of distribution parameters for VAR calculation using evolutionary algorithms,* WSEAS Transactıons on Business And Economics, Issue 3, Volume 2, pp. 109-115, July 2005

16. **H. Dağ**, G. Soykan, Ş. Pişkin, O. Yaşar, *Computational Science and Engineering Education at Istanbul Technical University,* IEEE Computing in Science and Engineering, pp. 20-25, January/February 2005.

17. **H. Dağ,** *An approximate inverse preconditioner and its implementation for conjugate gradient method,* to appear in Parallel Computing, 2007.

18. F. Alvarado, **H. Dağ**, *Incomplete Inverse Preconditioners*, ARI, ITU-Bulletin, Vol. 54, No. 2, 2004.

19. F. Yetkin, **H. Dağ**, *A comparison of the model order reduction techniques for linear systems arising from VLSI interconnection simulation,* Applied Numerical Analysis and Computational Mathematics, Vol. 1, No. 1, pp. 290-303, 2004.

20. **H. Dağ**, G. Soykan, Ş. Pişkin, O. Yaşar, *Computational Science and Engineering Education: Faculty and Student Perspectives*, **Lecture Notes in Computer Science**, 3045, Part III, pp. 795-806, Springer Verlag Berlin Heidelberg, 2004.

21. **H. Dağ**, Ç. Akdoğan, *A parallel implementation of Chebyshev preconditioned conjugate gradient method,* ARI, ITU-Bulletin, Vol 53, No. 4, 2003.

22. **H. Dağ**, A. Semlyen, *A new preconditioned conjugate gradient power flow,* IEEE Transactions on Power Systems, Vol.18, No.4, November 2003.

23. M. Bağrıyanık, **H. Dağ**, *Determination of location of series compensation using fuzzy decision making,* European Transactions on Electrical Power (ETEP), Vol. 11, No. 4, pp. 241-245, July/august 2001.

24. **H. Dağ**, F. L. Alvarado, *Toward improved uses of the conjugate gradient method for power system applications,* IEEE Transactions on Power Systems, Vol.12, No.2, May 1997, pp. 585--591.

25. **H. Dağ**, F. L. Alvarado, *Computation-free preconditioners for the parallel solution of power system problems,* IEEE Transactions on Power Systems, Vol.12, No.3, 1997, pp. 1306--1314.

Technical Discussions:

1. **H. Dağ**, **Discussion** to the paper titled *"New ordering methods for sparse matrix inversion via diagonalization",* by Y. Q. Wang and H. B. Gooi, IEEE Transaction on Power Systems, Vol. 12, No.3, August 1997, pp. 1304-1305.

2. **H. Dağ**, F. L. Alvarado, **Discussion** to the paper titled *"Conjugate gradient methods for power system dynamic simulation on parallel computers",* by I.C. Decker, D.M. Falcao and E. Kaszkurewicz, IEEE Transactions on Power Systems, Vol. 11, No. 3, 1996, pp. 1226-1227.

3. **H. Dağ**, F. L. Alvarado, **Discussion** to the paper titled *"Fundamental concepts of a KRYLOV subspace power flow methodology",* by A. Semlyen, IEEE Transactions on Power Systems, Vol.11, No.3, August, 1996, pp. 1535-1537.

Letters to Editors:

1. **H. Dağ**, A. Semlyen, **Closure** for the **Discussion by F. D. Leon** to the paper titled "*A new preconditioned conjugate gradient power flow",* IEEE Transactions on Power Systems, Vol.18, No.4, pp. 1601--1601, November 2003.

2. **H. Dağ**, F. L. Alvarado, **Closure** for the **Discussion by M. A. Pai** to the paper titled "*Toward improved uses of the conjugate gradient method for power system applications",* IEEE Transactions on Power Systems, Vol.12, No.3, pp. 1313—1314, August 1997.

International Conferences:

1. I. Yenidoğan, **H. Dağ**, and I. İli, *Students' Interactivity with Digital Content Makes Difference in Learning,* International Conference on Advances in Information and Communication

Technology-IPCT, Rome, Italy, April 18-19, 2015.

2. T. Dursun and **H. Dağ**, *A Generic Simulation Model for High Performance Computing Systems*, The 2014 World Congress in Computer Science, Computer Engineering, and Applied Computing (The 2014 International Conference on Modeling, Simulation and Visualization Methods (MSV'14)), Las Vegas, USA, 21-24 July 2014.

3. O. Ceylan, A. Özdemir and **H. Dağ**, *"Post Outage Voltage Calculations for Double Branch Outages*", The 47th International Universities' Power Engineering Conference (UPEC 2012), 4-7 September 2012,

4. E. F. Yetkin, **H. Dağ**, M. Manguoğlu, "*An Efficient Way to Compute the Eigenvalues in a Specific Region of Complex Plane*", June 2012, Spain.

5. **H. Dag**, K. E. Sayın, I. Yenidoğan, S. Albayrak, C. Acar, "*Comparison of Feature Selection Algorithms for Medical Data*", International Symposium on INnovations in Intelligent SysTems and Applications, June 2-5, 2012.

6. E. F. Yetkin, **H. Dağ**, "*Sparsity Preserved Computation for Spectral Projectors*, The International Conference on Applied Mathematics, Modeling and Computational Science (AMMCS)", 2012.

7. G. Soykan, A. Flueck, **H. Dag**, "*Parallel-In-Space Implementation of Transient Stability Analysis on a Linux Cluster With Infiniband*", North American Power Symposium, September 9-11, 2012, University of Illinois at Urbana-Champaign, USA.

8. O. Ceylan, **H. Dağ** and, A. Özdemir, *Harmony Search Method Based Parallel Contingency Analysis*, The 2010 International Conference on Power System Technology (POWERCON2010), Hangzhou, China on October 24-28, 2010.

9. O. Ceylan, A. Özdemir and **H. Dağ**, *Gravitational Search Algorithm for Post-Outage Bus Voltage Magnitude Calculations*, 45th International Universities' Power Engineering Conference (UPEC 2010) in Cardiff, Wales, UK, 31st August - 3rd September 2010.

10. **H. Dağ** and F. Yetkin, *A Spectral Divide and Conquer Method Based Preconditioner Design for Power Flow Analysis*, The 2010 International Conference on Power System Technology (POWERCON2010), Hangzhou, China on October 24-28, 2010.

11. F. Yetkin and **H. Dağ**, *A Suggestion to Select Interpolation Points for Rational Krylov Methods*, *Scientific Computing in Electrical Engineering* (A conference on applied mathematics in the domains: Computational Electromagnetics, Circuit Simulation, and Device Modelling), September 19-24, 2010 Toulouse, France.

12. O. Ceylan, A. Özdemir, **H. Dağ**, *Comparison of post outage bus voltage magnitudes estimated by Harmony Search and Differential Evolution methods,* The 15th International Conference on Intelligent System Applications to Power Systems, Curitiba, Brazil Nov. 8 - 12, 2009.

13. O. Ceylan, A. Özdemir, **H. Dağ,** *Towards Faster Branch Outage Simulations Using Simulated Annealing and Parallel Programmin*g, The 44th International Universities Power Engineering Conference (UPEC 2009), Glasgow, SCOTLAND, 1-4 September 2009.

14. G. Soykan and **H. Dağ,** *On-Line Transient Stability Assessment Using Matlab Parallel Programming Environment*, The 5th International Conference on Soft Computing, Computing

with Words and Perceptions in System Analysis, Decisions and Control, 2-4 September 2009, Famagusta, TRNC.

15. F. Yetkin and **H. Dağ**, *Parallel Implementation of Iterative Rational Krylov Methods for Model Order Reduction*, The 5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decisions and Control, 2-4 September 2009, Famagusta, TRNC.

16. O. Ceylan, A. Özdemir and **H. Dağ**, *Parallel Contingency Analysis Using Differential Evolution Based Solution for Branch Outage Problem*, The 5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decisions and Control, 2-4 September 2009, Famagusta, TRNC.

17. N. Er and **H. Dağ,** *Comparison of Free and Open Source Computational Tools for Teaching Physics*, The 5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decisions and Control, 2-4 September 2009, Famagusta, TRNC.

18. T. Dursun and H. Dağ, *HetereoSim: Heterogeneous Simulation Framework*, 12th Communications and Networking Simulation Symposium (CNS'09), March 27-29, 2009, San Diego, CA, USA.

19. O. Ceylan, A. Özdemir and **H. Dağ**, *Application of Differential Evolution Method To Branch Outage Problem*, The 2009 International Conference on Genetic and Evolutionary Methods, July 13-16, 2009, Las Vegas, USA.

20. O. Ceylan, A. Özdemir and **H. Dağ**, *Branch Outage Solution Using Particle Swarm Optimization,* The 2008 Australasian Universities Power Engineering Conference (AUPEC'08), Sydney, Australia, Dec. 14-17, 2008.

21. E. F. Yetkin and **H. Dag**, *Applications of Eigenvalue Inclusion Theorems in Model Order Reduction*, Scientific Computing in Electrical Engineering SCEE 2008, Espoo, Finland, 28 Dec-3, Oct 2008

22. O. Güren, **H. Dağ,** *A Benchmark Testing at the GRID System of Istanbul Technical University*, International Conference on Computational Science and Education, August 7-10, 2006, Rochester, New York, USA.

23. B. Benek, **H. Dağ**, *Comparison of Decomposition Techniques for Structurally Symmetric Sparse Matrices for Parallel Incomplete LU Factorization* International Conference on Computational Science and Education, August 7-10, 2006, Rochester, New York, USA.

24. B. Tunç, **H. Dağ,** *Generating Classification Association Rules with Modified Apriori Algorithm*, 2006 WSEAS International Conference, Şubat 2006, Madrid, Ispanya.

25. B. Onat, S. Durukanoğlu, **H. Dağ,** *Parallel implementation of real space Green's Function method for calculations of vibrational density of states for a solid*, International Conference on Computational Science and Engineering, 27-30 June 2005, İstanbul, Turkey.

26. **H. Dağ**, G. Soykan, B. Benek, *Can interval arithmetic based preconditioner work for non-linear systems?*, International Conference on Computational Science and Engineering, 27-30 June 2005, İstanbul, Turkey.

27. **H. Dağ**, S. Turhan, *Special parallel algorithms for using Monte Carlo simulation in VaR estimation*, Society of Risk Analysis Annual Meeting, December 7-10, 2003, USA.

28. O. Ceylan, **H. Dağ**, *A modified and faster algorithm to determine Nash Equilibrium in a bilateral electricity market*, The 5th International Power System Conference, November 6-7, 2003, Romania.

29. **H. Dağ**, U. Utkan, *An XML based data exchange model for power system studies*, North American Power Symposium, October 20-21, 2003, Missouri-Rolla, USA.

30. F. Yetkin, **H. Dağ**, *A comparison of the model order reduction techniques for linear systems arising from VLSI interconnection simulation*, Applied Numerical Analysis and Computational Mathematics Conference, May 23-26 2003, Cambridge, UK.

31. Ç. Akdoğan, **H. Dağ**, *A parallel implementation of Chebyshev preconditioned conjugate gradient method*, IEEE Proceedings of International and Distributed Computing, Ekim 2003, SLOVAKYA.

32. Y. C. Evrenosoğlu, **H. Dağ**, *Detailed model for power system transient stability analysis*, The 2nd International Conference on Electrical and Electronics Engineering (ELECO'2001), December 2001, Bursa, Turkey.

33. M. Bağrıyanık, **H. Dağ**, Determination of location of FACTS devices using Fuzzy Decision Making, International Conference on Power Systems Transients, Budapest June 20-24, 1999.

34. **H. Dağ**, B. Öztürk, A. Özyürek, *Application of series and shunt compensation to Turkish national power transmission system to improve system loadability*, The 2nd International Conference on Electrical and Electronics Engineering (ELECO'99), December 1999, Bursa, Turkey.

35. M. A. Pai, **H. Dağ**, *Iterative solver techniques in large scale power system computation*, presented at the 36th IEEE Conference on Decision and Control, December 10-12, 1997, San Diego, California, USA.

36. A. Padilha, **H. Dağ**, F. L. Alvarado, *Transient stability analysis on a network of workstations using PVM*, The 4th IEEE International Conference on Electronics Circuits and Systems, December 15-18, 1997, Cairo, Egypt.

37. A. Padilha, **H. Dağ**, F. L. Alvarado, *A parallel virtual machine approach to transient stability analysis*, presented at the North American Power Symposium (NAPS), November 10-12, 1996, MIT Cambridge, Massachusetts, USA.

38. **H. Dağ**, F. L. Alvarado, *Computation-free preconditioners for the solution of power system problems*, presented at the North American Power Symposium (NAPS), October, 1995, Bozeman, MO, USA.

39. **H. Dağ**, F. L. Alvarado, *The effect of ordering on the preconditioned conjugate gradient method for power system applications*, presented at the North American Power Symposium (NAPS), September 26-27, 1994, Kansas, USA.

40. **H. Dağ**, F. L. Alvarado, H. Singh, *Variations on ILU preconditioners applied to electric network least squares problems*, in the Proceedings of the fifth SIAM Conference on Linear Algebra, June 15--18, 1994, Snowbird, Utah, USA.

41. F. L. Alvarado, **H. Dağ**, M. ten Bruggencate, *Block-bordered diagonalization and parallel iterative solvers*, Presented at the Copper Mountain Conference on Iterative Methods, April 5--9, 1994, Breckenridge, Colorado, USA.

42. **H. Dağ**, O. Yaşar, F. L. Alvarado, *Parallel partitioned-inverse sparse matrix solutions*, Proceedings of the 6th SIAM Conference on Parallel Processing for Scientific Computing, March 22--24, 1993, Norfolk, Virginia, USA.

43. **H. Dağ**, F. L. Alvarado, *Direct methods versus GMRES and PCG for the power flow problems*, Presented at The North American Power Symposium, October 9--11, 1993, Washington, DC, USA.

44. F. L. Alvarado, **H. Dağ**, *Sparsified and incomplete sparse factored inverse preconditioners*, Presented at the Copper Mountain Conference on Iterative Methods, April 8--12, 1992, Copper Mountain, Colorado, USA.

45. O. Yaşar, F. L. Alvarado, **H. Dağ**, *Partitioned inverse sparse matrix solutions on the Intel iPSC860 Hypercube*, Proceedings of the Intel Supercomputer User Group Conference, October 4--7, 1992, Dallas, Texas, USA.

46. **H. Dağ**, F. L. Alvarado, *Propagation of perturbations in entries of power system W-matrices*, Presented at the North American Power Symposium, October 7--9, 1991, Carbondale, Illinois, USA.

Book Chapters:

1. **H. Dağ** (Editor), *Bilgi Teknolojileri Ülkemizin Hızlı Kalkınmasını Nasıl Başarır?,* Kadir Has Üniversitesi Yayınları.
2. F. Yetkin, **H. Dağ**, *Applications of Eigenvalue Counting and Inclusion Theorems in Model Order Reduction*, Mathematics in Industry: Computational Science in Electrical Engineering, , 2008.
3. **H. Dağ**, Y. Deng (editors), *ICCSE 2005: International Conference on Computational Science an Engineering*, İstanbul, June 27-30, 2005.

National Journals:

1. M. Bağrıyanık, **H. Dağ**, *Determination of location of Series Compensation devices in electric power systems*, Yıldız Teknik Üniversitesi Dergisi, Haziran 1999.

2. **H. Dağ**, Elektromanyetik Transient Program (EMTP) Kaynak ELEKTRİK Dergisi, Mart 1997, sf. 123-128.

7.1 National Conferences (Turkish):

1. T. Yalçınkaya, H. Dağ, "Büyük Veri Yolculuğu", Yönetim Bilişim sistemleri Kongresi, Atatürk Üniversitesi, Erzurum, 8-10 Ekim 2015.

2. **H. Dağ**, M. Işık, I. Yenidoğan, *E-ticaret Sistemleri için bir öneri sistemi: Mahout*, Yönetim Bilişim sistemleri Kongresi, Boğaziçi Üniversitesi, İstanbul, 14-17 Ekim 2014.

3. T. Yalçinkaya, **H. Dağ**, *Büyük Veri Analitiği İçin Mevcut Resme Bir Bakış: Donanım, Yazılım Ve Servisler,* Yönetim Bilişim sistemleri Kongresi, Boğaziçi Üniversitesi, İstanbul, 14-17 Ekim 2014.

4. K. E. Sayın, **H. Dağ**, *Gerçek Zamanlı Büyük Veri Analitiği İçin Mevcut Araçların Karşılaştırılması***,** Yönetim Bilişim sistemleri Kongresi, Boğaziçi Üniversitesi, İstanbul, 14-17 Ekim 2014.

5. O. Ceylan Ç. A. Şaylan, I. Yenidoğan, **H. Dağ**, *Intelligent Method Based Feature Selection Algorithms for Medical Data Sets*, IX. Ulusal *Tıp Bilişimi* Kongresi, Belek, Antalya Türkiye, 15-17 Kasım *2012*.

6. I. Yenidoğan Tiryakiler, N. Seyahi, S. Albayrak, K. E. Sayın, E. Ergin, **H. Dağ**, *Analysis of Coronary Artery Calcification in Renal Transplant Recipients Using Data Mining Techniques*, Belek, Antalya, 13 - 16 Ekim 2011.

7. O. Özgün, Ş. E. Uyar, ve **H. Dağ**, *Yazılım Üretim Hattı Yaklaşımı ile Yüksek Başarımlı Uygulama Geliştirme*, Yazılım Kalitesi ve Yazılım Geliştirme Araçları Sempozyumu, 3-4 Aralık 2010, İstanbul.

8. F. Yetkin, **H. Dağ**, *Sanaldoku tabanlı elektronik devre benzetim programı tasarımı*, Elektrik, Elektronik ve Bilgisayar Mühendisliği Sempozyumu, 18-22 Aralık 2002, Bursa, Türkiye.

9. **H. Dağ**, M. Demiralp, A. Kanmaz, *MuPAD Yardımıyla Çarpımsallaştırılmış Yüksek Boyutlu Model Gösterilim Katsayılarının Belirlenmesi*, 12. Ulusal Mekanik Kongresi, 10-14 Eylül 2001, Konya, Türkiye.

10. **H. Dağ**, O. Ceylan, *Yüksek Boyutlu İletim Denkleminin Yaklaştırımında Çarpımsallaştırılmış Yüksek Boyutlu Model Gösterilim*, 12. Ulusal Mekanik Kongresi, 10-14 Eylül 2001, Konya, Türkiye.

11. **H. Dağ**, *Hızlı-ayrık yük akış metodunun özdeğer analizi,* Elektrik-Elektronik-Bilgisayar Mühendisliği 8. Ulusal Kongresi 6-12 Eylül 1999, Gaziantep.

12. M. Bağrıyanık, G. Bağrıyanık, **H. Dağ**, *Kapasitif reaktif güç yerleşiminin sistem kayıpları açısından incelenmesi,* Elektrik-Elektronik-Bilgisayar Mühendisliği 8. Ulusal Kongresi 6-12 Eylül 1999, Gaziantep.

Other Publications:

1. H. Dağ, Y. Deng, (Editors) Proceedings of International Conference on Computational Science and Engineering (ICCSE'05), 27-30 June 2005.
2. V. Silindir, **H. Dağ**, E. Afacan, M. T. Aydemir, (Kitap Çeviri) Shaum Series: Sinyaller ve Sistemler, (Shaum's Outlines), Nobel Yayın Dağıtım, Ankara 2001.

Projects:

- *TÜBİTAK, Computational Science and Engineering, A center of Excellence of Industrial Innovation*, projesi yürütücüsü, Aralık 2005-Aralık 2007.
- ITU-DPT Ulusal Yüksek Başarımlı Hesaplama Merkezi Projesi" projesi eş-yürütücüsü, 2004-2008 (Yaklaşık 20 milyon USD bütçeli bir proje olup Avrupa Yatırım Bankası tarafından da desteklenmektedir).
- ITU-DPT İleri Teknolojiler Eğitim ve Araştırma Projesi kapsamında "**Hesaplamalı Bilim ve Mühendislik Programı**" alt projesi yürütücüsü, 2001-2006. (Projenin tamamı 25 milyon USD olup, anılan alt program bütçesi yaklaşık olarak 4,25 milyon USD dır).
- ITU-Genç Araştırmacıları Destekleme Projesi, *Türkiye elektrik enerji iletim sisteminde dinamik kararlılık analizi,* Ekim 1999-Nisan 2001.
- ÇEAŞ'ın 2000-2020 yılları için Enerji iletim hatlarının büyüme analizlerinde araştırıcı (Dinamik kararlık Analizleri bölümünde sorumlu)
- TOFAŞ-İstanbul OTO Binaları Enerji Sistem Rehabilitasyonu (1998).

- İ.T.Ü, Bilimsel Araştırmalar Biriminde Yüksek Lisans Öğrenci Tezlerini destekleyen İki Adet proje, 2002-2003.

Administrative Duties:

- Head of Department, Management Information Systems, Kadir Has University (Feb. 2012, -)
- Director of Graduate School of Kadir Has University (Sept. 2008 – June 2010)
- Head of Department, Information Technologies, Kadir Has University (Mach 2008, - January 2012)
- Head of Department, Information Technologies, Işık University (Sept. 2006, - March 2008)
- National Center for High Performance Computing, Co-Project Leader (Sept. 2004 –- 2011, Advisory Board 2011--)
- Vice Dean of Informatics Institute, İstanbul Technical University (May 1999 – January 2006)

Awards:

- Scholarship by Ministry of Education of Turkey for PhD Study abroad
- Scholarship by Ministry of Education of Turkey for MSc Study abroad
- **(Best Paper)**, North American Power Symposium (NAPS), Manhattan, KS, USA, 26-27 September, 1994.
- (**Mansion,)** The 5th SIAM Conference on Linear Algebra Snowbird, Utah, 14-18 June 1994.

A partial List of courses given:

Undergraduate:

- Data Structures and Algorithms
- Discrete Computational Structures
- Server Side Programming Languages
- Client Side Programming Languages
- Introduction to Java Programming
- Advanced Java Programming
- Database Systems
- Introduction to Computers and Information Systems
- Introduction to Scientific and Engineering Computing
- Introduction to Programming (Java, C)
- Internet and Web Programming
- Database Design and Management
- Computing Skills Workshop
- Power Transmission Systems
- Numerical Methods
- Linear Algebra

Graduate:

- Big Data Analytics (PhD)
- Client and Server Side Programming
- Directed Research (PhD)
- Advanced Data Warehousing and Data Mining
- Large Scale Sparse Matrix Computation and its Engineering Applications
- Parallel and Distributed Computing
- Scientific Programming (I and II)
- Server Side Programming Languages
- Web Based Database Management Systems
- New Extensions on Web Programming