

# Erdogan Dogdu

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Professor of Computer Science

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## Research Interests

- Big data analytics and machine learning
- Semantic web and linked data
- Internet of Things (IoT)
- Social media analytics

## Education

**Case Western Reserve University**, Cleveland, USA

**PhD** in Computer Science, 1998

- Thesis: Real-Time Databases: Extended Transactions and the Utilization of Execution Histories
- Advisor: Prof. Dr. Gultekin Ozsoyoglu
- Topic: Real-time database systems, transaction processing

**Case Western Reserve University**, Cleveland, USA

**MS** in Computer Science, 1991

- Thesis: Estimation of Aggregate Relational Algebra Queries with Error-Constraints in Real-Time Databases
- Advisor: Prof. Dr. Gultekin Ozsoyoglu
- Topic: Real-time database systems, sampling, estimation

**Hacettepe University**, Ankara, Turkey

**BS** in Computer Science and Engineering, 1987

## Academic Experience

**Angelo State University**, San Angelo, TX

**Department of Computer Science**

Professor & Chair, Aug 2019 - present

**Çankaya University**, Ankara, Turkey

**Computer Engineering Department**

Professor & Chair, Feb 2017- Jul 2019

**TOBB University of Economics and Technology**, Ankara, Turkey

**Computer Engineering Department**

Professor, Aug 2015 - Dec 2016

Chair & Assoc. Prof., Mar 2008 - Nov 2015

Associate Professor, Mar 2007 - Jul 2015

Assistant Professor, Jul 2004 - Feb 2007

**Georgia State University**, Atlanta, USA  
**Computer Science Department**  
Adjunct Assistant Professor, Aug 2005 - now  
Assistant Professor, Aug 2001 - Jun 2004

**Case Western Reserve University**, Cleveland, USA  
**Computer Science Department**  
Part-time Lecturer, Jan 1998 - Dec 1998  
Research Assistant, Sep 1991 - Aug 1997

## Teaching Experience

**Angelo State University**, San Angelo, TX [2019-]  
Java Programming (CS1351)

**Cankaya University**, Ankara, Turkey [2017-2019]  
Introduction to Programming (C) (CENG162)  
Introduction to Computer Science (CENG105)  
Software Engineering (CENG396)  
Introduction to Data Science (Selected Topics in CS) (CENG499)  
Big Data (CENG595)  
Semantic Web (CENG685)

**TOBB University**, Ankara, Turkey [2004-2016]  
Introduction to Programming (Java) (BIL141, BIL112)  
Object-Oriented Design and Programming (BIL211)  
Database Systems (BIL371, BIL106), Data Structures (BIL212)  
Semantic Web (new course) (BIL546)  
Distributed Data Processing and Analysis (new course) (BIL401, BIL501)  
Internet Application Development (new course) (BIL554)  
Software Development for Mobile Devices (BIL425)  
Web and Databases (BIL471)  
Introduction to Informatics (BIL101)

**Ahmet Yesevi University** (online) [2012-2015]  
Semantic Web, Computer Networks  
Object-Oriented Design and Programming

**Georgia State University**, Atlanta, USA [2001-2004]  
Introduction to Programming (C++), Software Engineering  
Database Systems, Databases and the Web  
Network-Oriented Software Engineering (new course)  
Analysis of Algorithms

**Case Western Reserve University**, Atlanta, USA [1998]  
Introduction to Programming (C)  
Database Systems

## Industrial Experience

**Voicecom**, Atlanta, USA  
Project Manager/Software Engineer, Jul 1999 - Jul 2001

**Voice-Tel Enterprises, Inc.**, Cleveland, USA  
Project Manager/Software Engineer, Jun 1998 - Jun 1999

**Computer Horizons**, Cleveland, USA  
Software Engineer, Sep 1997 - May 1998

## Awards and Fellowships

**IBM Shared University Research Award**  
Project: Social Media Analytics, 2014

**Ministry of Education Scholarship for MS and PhD in CS**  
Case Western Reserve University, Cleveland, USA, 1988-1995

## Memberships

• ACM and IEEE

# Publications

## Journals - SCI-E Indexed Articles

- [1] Omer B. Sezer, Erdogan Dogdu, and A. Murat Ozbayoglu. “Context Aware Computing, Learning and Big Data in Internet of Things: A Survey”. In: *IEEE Internet of Things Journal* 5.1 (2018). [doc], pp. 1–27.
- [2] Semih Yumusak, Erdogan Dogdu, Halife Kodaz, and Andreas Kamilaris. “Classification of Linked Data Sources Using Semantic Scoring”. In: *IEICE Transactions on Information and Systems* 101.1 (2018). [doc], pp. 99–107.
- [3] Bahram Lotfi Sadigh, Shahrzad Nikghadam, A Murat Ozbayoglu, Hakki Ozgur Unver, Erdogan Dogdu, and S Engin Kilic. “An Ontology based Multi-Agent Virtual Enterprise System (OMAVE), Part 2: Partner Selection”. In: *International Journal of Computer Integrated Manufacturing* (2017). [doc], 24 pages.
- [4] Bahram Lotfi Sadigh, Hakki Ozgur Unver, Shahrzad Nikghadam, Erdogan Dogdu, A Murat Ozbayoglu, and S Engin Kilic. “An Ontology based Multi-Agent Virtual Enterprise System (OMAVE): Part 1: Domain modelling and Rule Management”. In: *International Journal of Computer Integrated Manufacturing* 30.2-3 (2017). [doc], pp. 320–343.
- [5] Huseyin Ugur Yildiz, Bulent Tavli, Behnam Ojaghi, and Erdogan Dogdu. “The Impact of Incapacitation of Multiple Critical Sensor Nodes on Wireless Sensor Network Lifetime”. In: *IEEE Wireless Communications Letters* 6.3 (2017). [doc], pp. 306–309.
- [6] Semih Yumusak, Erdogan Dogdu, Halife Kodaz, and Andreas Kamilaris. “SpEnD: Linked Data SPARQL Endpoints Discovery Using Search Engines”. In: *IEICE Tran. on Information and Systems* 100.4 (2017). [doc], pp. 758–767.
- [7] Yüksel Totan, Emre Güler, Fatma B. Güragaç, Erkam Uzun, and Erdogan Dogdu. “Brilliant blue G assisted macular surgery: the effect of air infusion on contrast recognisability in internal limiting membrane peeling”. In: *British Journal of Ophthalmology* 99.1 (2015), pp. 75–80.
- [8] Alper Aksac, Orkun Ozturk, and Erdogan Dogdu. “A novel semantic web browser for user centric information retrieval: PERSON”. In: *Expert Systems with Applications* 39.15 (2012), pp. 12001–12013.
- [9] Elif Derya Ubeyli and Erdogan Dogdu. “Automatic detection of erythemato-squamous diseases using k-means clustering”. In: *Journal of Medical Systems* 34.2 (2010), pp. 179–184.
- [10] Erdogan Dogdu. “Utilization of execution histories in scheduling real-time database transactions”. In: *Data & Knowledge Engineering* 57.2 (2006), pp. 148–178.
- [11] Fuyu Liu and Erdogan Dogdu. “A user management system for federated databases using web services”. In: *Lecture Notes in Computer Science - Proc. of the 2006 Int. Conf. on Computational Science and Its Applications* 3983 (2006), pp. 88–97.
- [12] Erdogan Dogdu and Venkata Mamidenna. “Efficient scheduling strategies for web services-based e-business transactions”. In: *Lecture Notes in Computer Science - Proc. of the 2005 Int. Workshop on Technologies for E-Services* 3811 (2005), pp. 113–125.

- [13] Praveen Madiraju, Sushil K Prasad, Rajshekhar Sunderraman, and Erdogan Dogdu. “An agent module for a system on mobile devices”. In: *Lecture Notes in Artificial Intelligence - International Workshop on Agents and P2P Computing* 3601 (2004), pp. 144–152.
- [14] Sushil K Prasad, Vijay Madiseti, Shamkant B Navathe, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Bing Liu, Janaka Balasooriya, Arthi Hariharan, et al. “SyD: A Middleware Testbed for Collaborative Applications over Small Heterogeneous Devices and Data Stores”. In: *Lecture Notes in Computer Science* 3231 (2004), pp. 352–371.
- [15] Veli Hakkoymaz, F Znati, and Erdogan Dogdu. “User Control and Dynamic Reorganization of Multimedia Presentations During Playout”. In: *International Journal of Software Engineering and Knowledge Engineering* 7.03 (1997), pp. 371–395.
- [16] Erdogan Dogdu. “Scheduling adaptive transactions in real-time databases”. In: *Lecture Notes in Computer Science - International Conference on Database and Expert Systems Applications* 1134 (1996), pp. 130–142.

### **Journals - Other Indexes**

- [1] Muhammed Akif Ağca, Şenol Ataç, Mehmet Mert Yücesan, Yusuf Gökhan Küçükayan, Ahmet Murat Özbayoğlu, and Erdoğan Doğdu. “Opinion mining of microblog texts on Hadoop ecosystem”. In: *International Journal of Cloud Computing* 5.1-2 (2016). (ProQuest, Inspec, Google Scholar indexed), pp. 79–90.
- [2] Amna Basharat, I Budak Arpinar, Shima Dastgheib, Ugur Kursuncu, Krys Kochut, and Erdogan Dogdu. “Semantically enriched task and workflow automation in crowdsourcing for linked data management”. In: *International Journal of Semantic Computing* 8.04 (2014). (Ebsco, Inspec, ProQuest, Google Scholar indexed), pp. 415–439.
- [3] Semih Yumusak, Erdogan Dogdu, and Halife Kodaz. “Tagging Accuracy Analysis on Part-of-Speech Taggers”. In: *Journal of Computer and Communications* 2.04 (2014). (Ebsco, Google Scholar indexed), pp. 157–162.

### **Conference and Workshop Proceedings**

- [1] Osama Faker and Erdogan Dogdu. “Intrusion Detection Using Big Data and Deep Learning Techniques”. In: *Proceedings of the 2019 ACM Southeast Conference*. ACM. 2019, pp. 86–93.
- [2] Bugra Cakir and Erdogan Dogdu. “Malware classification using deep learning methods”. In: *Proceedings of the SouthEast Conference*. ACM. 2018, p. 10.
- [3] Erdogan Dogdu, Murat Ozbayoglu, Ali Yazici, and Ziya Karakaya. “Perceptions, Expectations and Implementations of Big Data in Public Sector”. In: *Computer Science and Engineering (UBMK), 2018 International Conference on*. IEEE. 2018.
- [4] Onur Göker, Nazli Nazli, Mehmet Murat Erol, Roya Choupani, and Erdogan Dogdu. “A Robust Watermarking Scheme Over Quadrant Medical Image in Discrete Wavelet Transform Domain”. In: *2018 5th International Conference on Control, Decision and Information Technologies (CoDIT)*. IEEE. 2018, pp. 277–282.

- [5] Reza Hassanpour, Erdogan Dogdu, Roya Choupani, Onur Goker, and Nazli Nazli. “Phishing e-mail detection by using deep learning algorithms”. In: *Proceedings of the ACMSE 2018 Conference*. ACM. 2018, p. 45.
- [6] Aras Can Onal, Omer Berat Sezer, Murat Ozbayoglu, and Erdogan Dogdu. “MIS-IoT: Modular Intelligent Server Based Internet of Things Framework with Big Data and Machine Learning”. In: *2018 IEEE International Conference on Big Data (Big Data)*. IEEE. Dec. 2018.
- [7] Semih Yumusak, Andreas Kamilaris, Erdogan Dogdu, Halife Kodaz, Elif Uysal, and Riza Emre Aras. “A Discovery and Analysis Engine for Semantic Web”. In: *Companion of the The Web Conference 2018 on The Web Conference 2018*. International World Wide Web Conferences Steering Committee. 2018, pp. 1497–1505.
- [8] Aras Can Onal, Omer Berat Sezer, Murat Ozbayoglu, and Erdogan Dogdu. “Weather data analysis and sensor fault detection using an extended IoT framework with semantics, big data, and machine learning”. In: *2017 IEEE International Conference on Big Data (Big Data)*. Dec. 2017, pp. 2037–2046. DOI: 10.1109/BigData.2017.8258150.
- [9] Kasim Öztoprak, Sina Layazali, and Erdogan Dogdu. “Topic Distribution Constant Diameter Overlay Design Algorithm (TD-CD-ODA)”. In: *Semantic Computing (ICSC), 2017 IEEE 11th International Conference on*. [doc]. IEEE. 2017, pp. 482–487.
- [10] Omer Berat Sezer, A Murat Ozbayoglu, and Erdogan Dogdu. “A Deep Neural-Network based Stock Trading System based on Evolutionary Optimized Technical Analysis Parameters”. In: *Proceedings of the Complex Adaptive System Conference, Procedia Computer Science*. Vol. 114. [doc]. Elsevier, 2017, pp. 473–480.
- [11] Omer Berat Sezer, A Murat Ozbayoglu, and Erdogan Dogdu. “An Artificial Neural Network-based Stock Trading System Using Technical Analysis and Big Data Framework”. In: *Proceedings of the ACM SouthEast Conference*. [doc]. ACM. 2017, pp. 223–226.
- [12] Elif Uysal, Semih Yumusak, Kasim Oztoprak, and Erdogan Dogdu. “Sentiment Analysis for the Social Media: A Case Study for Turkish General Elections”. In: *Proceedings of the South-East Conference*. [doc]. ACM. 2017, pp. 215–218.
- [13] Behnam Ojaghi Kahjogh, Jeyhun Karimov, and Erdogan Dogdu. “EDL: A Framework for Entity Disambiguation and Linking to Knowledgebases”. In: *Proceedings of the 2016 IEEE Tenth International Conference on Semantic Computing (ICSC)*. IEEE. 2016, pp. 168–169.
- [14] Sercan Kulcu and Erdogan Dogdu. “A Scalable Approach for Sentiment Analysis of Turkish Tweets and Linking Tweets To News”. In: *Proceedings of the 2016 IEEE Tenth International Conference on Semantic Computing (ICSC)*. IEEE. 2016, pp. 471–476.
- [15] Sercan Kulcu, Erdogan Dogdu, and A. Murat Ozbayoglu. “A Survey on Semantic Web and Big Data Technologies for Social Network Analysis”. In: *IEEE International Conference on Big Data*. IEEE. 2016, 10 pages.
- [16] Busra Mutlu, Merve Mutlu, Kasim Oztoprak, and Erdogan Dogdu. “Identifying Trolls and Determining Terror Awareness Level in Social Networks Using a Scalable Framework”. In: *IEEE International Conference on Big Data*. IEEE. 2016, 7 pages.
- [17] Murat Ozbayoglu, Gokhan Kucukayan, and Erdogan Dogdu. “A Real-Time Autonomous Highway Accident Detection Model Based on Big Data Processing and Computational Intelligence”. In: *IEEE International Conference on Big Data*. IEEE. 2016, 7 pages.

- [18] Ethem Cem Ozkan, Muhammad Saleem, Erdogan Dogdu, and Axel-Cyrille Ngonga. “UPSP: Unique Predicate-based Source Selection for SPARQL Endpoint Federation”. In: *Proceedings of the PROFILES Workshop at Extended Semantic Web Conference (ESWC)*. 2016, pp. 1–15.
- [19] Omer Berat Sezer, Erdogan Dogdu, Murat Ozbayoglu, and Aras Onal. “An Extended IoT Framework with Semantics, Big Data, and Analytics”. In: *IEEE International Conference on Big Data*. IEEE. 2016, 8 pages.
- [20] Mehmet Mert Yucesan and Erdogan Dogdu. “News Clustering Using Linked Data Resources and Their Relationships”. In: *Proc. of the International Conference on Artificial Intelligence and Data Processing (IDAP)*. 2016, pp. 435–440.
- [21] Semih Yumusak, Emir Munoz, Pasquale Minervini, Erdogan Dogdu, and Halife Kodaz. “A Hybrid Method for Rating Prediction Using Linked Data Features and Text Reviews”. In: *Proc. of the 5th Workshop on Knowledge Discovery and Data Mining meets Linked Open Data (Know@ LOD) (Linked Data Mining Challenge Award)*. 2016, pp. 1–4.
- [22] Jeyhun Karimov, Murat Ozbayoglu, and Erdogan Dogdu. “k-means Performance Improvements with Centroid Calculation Heuristics both for Serial and Parallel environments”. In: *Proceedings of the 2015 IEEE International Congress on Big Data*. IEEE. 2015, pp. 444–451.
- [23] Jeyhun Karimov, Murat Ozbayoglu, Bulent Tavli, and Erdogan Dogdu. “Generic menu optimization for multi-profile customer systems”. In: *Proceedings of the 2015 IEEE International Symposium on Systems Engineering (ISSE)*. IEEE. 2015, pp. 163–169.
- [24] Omer Berat Sezer, Serdar Zafer Can, and Erdogan Dogdu. “Development of a smart home ontology and the implementation of a semantic sensor network simulator: An internet of things approach”. In: *Proceedings of the 2015 International Conference on Collaboration Technologies and Systems (CTS)*. IEEE. 2015, pp. 12–18.
- [25] Amna Basharat, I Budak Arpinar, Shima Dastgheib, Ugur Kursuncu, Krys Kochut, and Erdogan Dogdu. “CrowdLink: Crowdsourcing for large-scale linked data management”. In: *Proceedings of the 2014 IEEE International Conference on Semantic Computing (ICSC)*. IEEE. 2014, pp. 227–234.
- [26] Erdogan Dogdu, Sherzod Hakimov, and Semih Yumusak. “A data-model driven web application development framework”. In: *Proceedings of the 2014 ACM Southeast Regional Conference*. ACM. 2014, 47:1–47:4.
- [27] Erdogan Dogdu, Bahadir Katipoglu, and Umutcan Guney. “Waste Management Information System”. In: *Knowledge Engineering and Ontology Development (KEOD 2014) part of the International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management IC3K*. 2014, pp. 312–318.
- [28] Erdoğan Doğdu, A Murat Özbayoğlu, Okan Benli, Hülya Erdener Akınç, Erdeniz Erol, Tuğrul Atasoy, Ozan Güreç, and Özden Erçin. “Ontology-centric data modelling and decision support in smart grid applications: A distribution service operator perspective”. In: *Proceedings of the 2014 IEEE International Conference on Intelligent Energy and Power Systems (IEPS)*. IEEE. 2014, pp. 198–204.
- [29] B Lotfi Sadigh, HÖ Ünver, E Dogdu, and SE Kılıç. “Ontology based Virtual Enterprise System Domain Modeling”. In: *Proc. of the 24th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM)*. 2014, 9 pages.

- [30] Semih Yumusak, Erdogan Dogdu, and Halife Kodaz. “A short survey of linked data ranking”. In: *Proceedings of the 2014 ACM Southeast Regional Conference*. ACM. 2014, 48:1–48:4.
- [31] Erdogan Dogdu and Onur Soyer. “MoReCon: a mobile restful context-aware middleware”. In: *Proceedings of the 51st ACM Southeast Conference*. ACM. 2013, 37:1–37:6.
- [32] Sherzod Hakimov, Hakan Tunc, Marlen Akimaliev, and Erdogan Dogdu. “Semantic question answering system over linked data using relational patterns”. In: *Proceedings of the Joint EDBT/ICDT 2013 Workshops*. ACM. 2013, pp. 83–88.
- [33] A Talha Kabakus and Erdoğan Dogdu. “Linked Data Üzerinden Doğal Dil Sorgularını Cevaplayan Sistem”. In: *10th National Software Engineering Symposium*. 2013, pp. 1–14.
- [34] Suleyman Uludag, M Fatih Demirci, Erdogan Dogdu, and Fahri Aydos. “Pedagogical analysis and multifaceted evaluation of an engineering co-op program”. In: *2013 IEEE Frontiers in Education Conference (FIE)*. IEEE. 2013, pp. 438–444.
- [35] Sherzod Hakimov, Salih Atılay Oto, and Erdogan Dogdu. “Named entity recognition and disambiguation using linked data and graph-based centrality scoring”. In: *Proceedings of the 4th International Workshop on Semantic Web Information Management*. ACM. 2012, 4:1–4:7.
- [36] B Lotfi Sadigh, HO Unver, E Dogdu, and SE Kilic. “An Ontology Based Model for Virtual Enterprise”. In: *Proceedings of 15th International Conference on Machine Design and Production, UMTIK 2012, Denizli, Turkey, June 19*. Vol. 22. 2012, pp. 885–898.
- [37] Erdogan Dogdu and Ali Nihat Cicek. “Accessing and Updating Electronic Health Records Using RESTful Web Services”. In: *Proceedings of the 2011 International Conference on Semantic Web and Web Services (SWWS 2011)*. 2011, pp. 34–37.
- [38] Erdogan Dogdu and Abdullah Battal. “A TV Recommendation System Using Semantic Web.” In: *Proceedings of the 2010 International Conference on Semantic Web and Web Services (SWWS 2010)*. 2010, pp. 34–37.
- [39] Erdogan Dogdu. “Semantic web in eHealth”. In: *Proceedings of the 47th ACM Southeast Regional Conference*. ACM. 2009, 73:1–73:4.
- [40] Erdogan Dogdu and Omer Mescigil. “Dynamic Selection of Web Services Using QoS Constraints in BPEL.” In: *Proc. of the 17th Int. Conf. on Software Engineering and Data Engineering (SEDE2008)*. 2008, pp. 222–226.
- [41] Erdogan Dogdu, Jianwei Zhuang, and Sushil K. Prasad. “Design and Implementation of a Middleware for Mobile Networked Devices and Applications”. In: *Proceedings of the 2007 International Conference on Software Engineering Research & Practice, SERP 2007, Volume I, June 25-28, 2007, Las Vegas Nevada, USA*. 2007, pp. 261–268.
- [42] Erdogan Dogdu, Yanchao Wang, and Swetha Desetty. “A Generic Database Web Service”. In: *Proceedings of the 2006 International Conference on Semantic Web and Web Services (SWWS 2006)*. 2006, pp. 117–121.
- [43] Saeid Belkasim, Pooja Bhatia, Wissam Ramlawi, Somasheker Akkaladevi, and Erdogan Dogdu. “Strip and line discrete cosine transforms for blocking artifact reduction”. In: *Proceedings of the 48th Midwest Symposium on Circuits and Systems*. IEEE. 2005, pp. 1693–1695.
- [44] Bing Liu, Sushil K Prasad, and Erdogan Dogdu. “A small listener for heterogeneous mobile devices: a service enabler with a uniform Web object view”. In: *IEEE International Conference on Web Services (ICWS2005)*. IEEE. 2005, pp. 1–8.



- [45] Rajshekhar Sunderraman, Erdogan Dogdu, Praveen Madiraju, and Laxmikanth Malladi. “A Java API for global querying and updates for a system of databases”. In: *Proceedings of the 43rd ACM Southeast Regional Conference*. ACM. 2005, pp. 245–249.
- [46] SO Belkasim, Y Li, E Dogdu, X Hong, and Z Li. “Contented-based image retrieval in biological databases”. In: *Proceedings of International Conference on Computational Intelligence*. 2004, pp. 512–515.
- [47] Erdogan Dogdu. “Scheduling Web Services Transactions.” In: *Proceedings of the 2004 International Conference on Internet Computing*. 2004, pp. 727–732.
- [48] Arthi Hariharan, Sushil K Prasad, Anu G Bourgeois, Erdogan Dogdu, Shamkant B Navathe, Raj Sunderraman, and Yi Pan. “A Framework for Constraint-Based Collaborative Web Service Applications and A Travel Application Case Study.” In: *Proceedings of the 2004 International Conference on Internet Computing*. 2004, pp. 866–872.
- [49] Edward Heinz and Erdogan Dogdu. “Enhancements to Securing XML Web Services.” In: *Proceedings of the 2004 International Conference on Internet Computing*. 2004, pp. 808–816.
- [50] Jagbir S Hooda, Erdogan Dogdu, and Raj Sunderraman. “Health Level-7 compliant clinical patient records system”. In: *Proceedings of the 2004 ACM symposium on Applied Computing (ACM SAC)*. ACM. 2004, pp. 259–263.
- [51] Erdogan Dogdu and Raj Sunderraman. “A web services testing tool”. In: *Proceedings of the 7th IASTED Int. Conf. on Internet and Multimedia Systems and Applications*. 2003, pp. 1–5.
- [52] Bo Jin, Saeid Belkasim, and Erdogan Dogdu. “Web image transcoding and a proxy-based solution for small devices”. In: *Proceedings of the 46th IEEE International Midwest Symposium on Circuits & Systems*. Vol. 3. IEEE. 2003, pp. 1601–1603.
- [53] Sushil K Prasad, Anu G Bourgeois, Erdogan Dogdu, Raj Sunderraman, Yi Pan, Sham Navathe, and Vijay Madiseti. “Enforcing interdependencies and executing transactions atomically over autonomous mobile data stores using SyD link technology”. In: *Proceedings of the 23rd International Conference on Distributed Computing Systems Workshops*. IEEE. 2003, pp. 803–809.
- [54] Sushil K Prasad, Anu G Bourgeois, Erdogan Dogdu, Raj Sunderraman, Yi Pan, Sham Navathe, and Vijay Madiseti. “Implementation of a calendar application based on SyD coordination links”. In: *Proceedings of the 2003 International Parallel and Distributed Processing Symposium*. IEEE. 2003, pp. 242–249.
- [55] Sushil K Prasad, Erdogan Dogdu, Raj Sunderraman, Bing Liu, and Vijay Madiseti. “Design and Implementation of a listener module for handheld mobile devices”. In: *Proceedings of 41st Annual ACM Southeast Conference*. 2003, pp. 7–8.
- [56] Erdogan Dogdu. “An Extended Web Services Framework”. In: *Proceedings of the International Conference on Communications, Internet, and Information Technology*. 2002, pp. 455–460.
- [57] Erdogan Dogdu and Gultekin Ozsoyoglu. “Real-time transactions with execution histories: priority assignment and load control”. In: *Proceedings of the 6th International Conference on Information and Knowledge Management (CIKM)*. ACM. 1997, pp. 301–308.

- [58] Erdogan Dogdu and Gultekin Ozsoyoglu. “Adaptive real-time transactions and risk-based load control”. In: *Proceedings of the Workshop on Databases: Active and Real-Time*. ACM, 1996, pp. 1–4.
- [59] Wen-Chi Hou, Gultekin Ozsoyoglu, and Erdogan Dogdu. “Error-constrained COUNT query evaluation in relational databases”. In: *Proceedings of the 1991 ACM SIGMOD International Conference on Management of Data*. ACM, 1991, pp. 278–287.

## Technical Reports

- [1] Sushil K Prasad, Vijay Madiseti, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Sham Navathe, Raghupathy Sivakumar, Yanqing Zhang, Yi Pan, et al. *A middleware for collaborative applications over a system of mobile devices (SyD): An implementation case study*. Tech. rep. Department of Computer Science, Georgia State University, 2003.

## Book Chapters

- [1] Erdogan Dogdu and Gultekin Ozsoyoglu. “Scheduling Nested Transactions in Real-Time Database Systems”. In: *Real-Time Database and Information Systems: Research Advances*. Ed. by Azer Bestavros and Victor Fay-Wolfe. Kluwer Academic Publishers, 1997. Chap. 7, pp. 105–130.

## Books

- [1] Ali Yazici, Erdogan Dogdu, A. Murat Özbayoglu, Y. Murat Erten, and Oguz Ergin. *Java: An Introduction to Computer Programming*. (book in Turkish). Palme, 2007. ISBN: 978-9944-341-57-8.
- [2] Ali Yazici, Murat Erten, Erdogan Dogdu, and Anil Ustun. *Information Technologies*. (book in Turkish). TOBB ETU Publications, 2005. ISBN: 123123.

## Theses

- [1] Erdogan Dogdu. “Real-Time Databases: Extended Transactions and the Utilization of Execution Histories”. PhD thesis. Case Western Reserve University, 1998.
- [2] Erdogan Dogdu. “Estimation of aggregate relational algebra queries with error constraints”. MS Thesis. Case Western Reserve University, 1991.

## Theses Advised

- Nazli Nazli, MS Thesis: “Analysis Of Machine Learning Based Spam Filtering Techniques”, Cankaya University, 2017
- Onur Goker, MS Thesis: “Spam Filtering Using Big Data And Deep Learning”, Cankaya University, 2017
- Semih Yumusak, (Co-advised), PhD Thesis: Dissertation: A novel method to discover and analyze linked data sources, Selçuk University, 2017
- Hussein Ali Ahmed Ahmed, MS Thesis: ”Predicting The Risk of Seizing State Lands Using Data Mining Techniques”, Cankaya University, 2017
- M. Mert Yucesan, MS Thesis: “News Clustering Using Linked Data”, TOBB University, 2016
- Şenol Ataç, MS Thesis: “FeeQA: Hybrid Question Answering Over Linked Data”, TOBB University, 2015
- Muhammed Akif Ağca, MS Thesis: “Performance Improvement via Distributed File Systems on Private Analytical Clouds”, TOBB University, 2015
- Ethem Cem Özkan, MS Thesis: “Distributed Query Optimization Over Linked Data”, TOBB University, 2015
- Sherzod Hakimov, MS Thesis: “Named Entity Disambiguation Using Linked Data”, TOBB University, 2013
- Ozgur Eroglu, MS Thesis: “Efficient Storage And Querying Of Semantic Data On A Distributed System”, TOBB University, 2013
- Salih Atilay Oto, MS Thesis: “News Clustering Using Relations Between Named Entities”, TOBB University, 2012
- Ahmet Ömercioğlu, MS Thesis: “Online Customizable Ontology Development Environment For Semantic Web”, TOBB University, 2012
- Onur Soyer, MS Thesis: “MoReCon: Service-based and Context-Aware Middleware for Mobile Applications”, TOBB University, 2010
- Abdülhamit Maboçoğlu, MS Thesis: “Querying Ontologies Using Restful Web Services”, TOBB University, 2010
- Abdullah Battal, MS Thesis: “A TV Program Recommendation System Using Semantic Web”, TOBB University, 2009
- Ali Nihat Çiçek, MS Thesis: “Implementing E-Health Systems Using RESTful Web Services”, TOBB University, 2009
- Gökhan Öztopuz, MS Thesis: “Software As A Service: A Voice Communication Application Developed Using Service-Oriented Architecture”, TOBB University, 2009
- Ömer Mescigil, MS Thesis: “Dynamic Execution of BPEL Web Service Compositions Using QoS Constraints”, TOBB University, 2007
- Venkatta Mamidenna, MS Thesis: “Efficient Scheduling Strategies for Web Services Transactions”, Georgia State University, 2005.
- Hongbo Luo, MS Thesis: “Design and Implementation of a Peer-to-Peer Database”, Georgia State University, 2004

- Swetha Desetty, MS Thesis: “SOAP-JDBC: A Bridge Between Heterogeneous Clients and Data Sources”, Georgia State University, 2003
- Eddie Heinz, MS Thesis: “Web Services Security and A Java Security API”, Georgia State University, 2003
- Pooja Bhatia, MS Thesis: “A Server Module for Hosting Java Web Services On Personal Digital Assistants”, Georgia State University, 2003
- Fuyu Liu, MS Thesis: “A Federated Database User Management System Using Web Services”, Georgia State University, 2003
- Jagbir S. Hooda, MS Thesis: “Health Level-7 (HL7) Compliant Clinical Patient Records System”, Georgia State University, 2003
- Bing Liu, MS Thesis: “A Listener Module for Distributed Applications over Mobile Devices”, Georgia State University, 2003
- Lakshmi Yadlapati, MS Thesis: “A Web Services Testing Tool”, Georgia State University, 2002