

Assoc.Prof.Dr. Duygu ÇELİK ERTUĞRUL



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Eastern Mediterranean University
Computer Engineering Department
Famagusta, Mersin-10
TRNC, TURKEY

Education

Degree	University	Department	Years
Ph.D	Eastern Mediterranean Uni.	Computer Engineering Dept.	2005-2010
MS	Eastern Mediterranean Uni.	Computer Engineering Dept.	2003-2005
BS	Eastern Mediterranean Uni.	Computer Engineering Dept.	1999-2003
BS	Kocaeli University	Health Services	1994-1998

Experiences

Years	University/Company	Department	Title/ Position
2016-Still	Eastern Mediterranean Uni.	Computer Engineering	Faculty Member
2013	Semantica Internet & Software Services Trd. Ltd. Co.	R & D Project Management	General Manager
2010-2016	Istanbul Aydın University	Software Engineering Dept.	Asst.Prof.Dr., Instructor
2010-2013	Istanbul Aydın University	Distance Education Institute	Asst.Prof.Dr. Faculty Member
2011-2016	Avea Communication Services Inc., Kariyer.Net, Acibadem Health Group, Erk Tech, Compello Software Co., etc.	R & D Project Management	Academic Consultant
2003-2010	Eastern Mediterranean Uni.	Computer Engineering Dept.	Research Assistant
2003-2005	Eastern Mediterranean Uni.	Distance Education Institute	Teaching Assistant

SCI & SSCI & Arts and Humanities

1. SCI, Duygu Çelik Ertuğrul, Ali Hakan Ulusoy (Submitted 2018). Under review (SCI). Ontology-based Remote Pediatric Consultation and Monitoring System that Suggests Supportive Medical Steps for Parents via Inferencing.
2. SCI-E, Duygu Çelik Ertuğrul, FoodWiki: A Mobile App Examines Side Effects of Food Additives via Semantic Web, Journal of Medical Systems, Springer Journals, DOI: 10.1007/s1091601503726, ISSN: 0148-5598 (Print) 1573-689X (Online), WOS:000366122300007, 40, 2, 01 – 15, FEB 2016.
3. SCI-E, Duygu Çelik, Towards a semantic-based information extraction system for matching resumes to job openings, Turkish Journal of Electrical Engineering & Computer Sciences, WOS:000368559000005, DOI: 10.3906/elk1304130, E-ISSN: 1303-6203. ISSN: 1300-0632, 24, 141 – 159, JAN 2016, TURKEY
4. SCI, Duygu Çelik, Atilla Elçi, Semantic composition of business processes using Armstrong's Axioms, The Knowledge Engineering Review (KER) Cambridge Journals, ISSN: 0269-8889, eISSN: 1469-8005, WOS:000339566000009, 29, 2, 248 – 264, MAR 2014.
5. SSCI, Duygu Çelik, Atilla Elçi, Necati İNAN, Akın Eray ELVERİCİ, Alev ELÇİ, Educational Activity Discovery System for Individuals with Pervasive Developmental Disorders through Web Ontology Language (OWL), Education and Science, ISSN:1300-1337, WOS:000332750100006, 39, 171, 52 – 73, JAN 2014.
6. SCI, Duygu Çelik, Atilla Elçi, A broker-based semantic agent for discovering Semantic Web services through process similarity matching and equivalence considering quality of service, Science China Information Sciences, DOI: 10.1007/s1143201246971, ISSN: 1674733X, WOS:000314426900002, 56, 1, 01 – 24, 2013.
7. SCI-E, Ulaş Çelenk, Duygu Çelik Ertuğrul, Metin Zontul, Osman Nuri Uçan , Self-Organizing Maps With Sliding Window (SOM+SW), Technical Gazzete - Tehnički vjesnik, DOI: 10.17559/TV-20151008153755, ISSN: 1330-3651, 24(6), 1729-1737, 2017.
8. SCI-E, Duygu Çelik, Atilla Elçi, Towards a semantic-based workflow model to composition of OWL-S based atomic processes through process similarity matching and inferencing techniques, Journal of Internet Technology, ISSN: 16079264, WOS:000287064400016, 12, 1, 153 – 170, JAN 2011, TAIWAN.

International Journal Articles

1. Other Int. J., Duygu Çelik, FoodWiki: Ontology-driven Mobile Safety Food Consumption System, The Scientific World Journal, Hindawi Journals, ISSN: 1537-744X, Vol.2015, 01 – 22, 2015.
2. Other Int. J., Duygu Çelik, Atilla Elçi, Ontology-based QoS Model for Appropriate Selection and Composition of Web Services, International Review on Computers and Software (IRECOS), Praise Worthy Prize, ISSN:1828-6003, 3, 2, 176 – 184, 2008.
3. Other Int. J., Duygu Çelik, Atilla Elçi, Provision of Semantic Web Services through an Intelligent Semantic Web Service Finder, Multiagent and Grid Systems (MAGS), ISSN print: 1574-1702, Online: 1875-9076, 4, 3, 297-316, 2008.

National Journal Articles

1. Ertugrul, D. C., Zontul, M., Bitirim, Y., & Taymaz, G. TrackARTI, (2018). Akut Solunum Yolu Enfeksiyonu Geçiren Çocuk Hastalar için Mobil Sağlık Takip Sistemi. Aksaray University Journal of Science and Engineering, 2(1), 73-94.
2. Ertuğrul, D. Ç., & Alpay, P. H. (2017). Pediatrik Hastalarda Ontoloji Tabanlı Mobil Ateş Takip ve Konsültasyon Sisteminin Geliştirilmesi, sayfa: 543-556. Politeknik Dergisi, 20(3).
3. Mehmet Akif ÇİFÇİ, Duygu ÇELİK ERTUĞRUL. Hadoop ve Mapreduce Teknolojisi aracılığıyla Gıda-tabanlı Mobil Uygulamaları için bir Arama Hizmeti, Cumhuriyet Üniversitesi Fen-Edebiyat Fakültesi Fen Bilimleri Dergisi.
4. Nat. J., Duygu Çelik, Atilla Elçi, Akıllı Anlamsal Ağ Servisi Arayıcısı, Turkish Informatics Foundation Journal of Computer Science and Engineering (TBV BBMD), ISSN: 1305-8991, 2, 1, 31-42, 2006, <http://www.bmbb.info/dergi/index.php/dergi/article/view/20/16>
5. Nat. J., Duygu Çelik, Atilla Elçi, OWL-S Tabanlı Atomik Süreçlerin Birleşimi Üzerine Semantik Tabanlı İş Akışı Modeli, Çankaya University Journal of Science and Engineering-CUSJE, ISSN: 1309 - 6788, 8, 1, 75-98, 2011, Ankara, Turkey http://cujse.cankaya.edu.tr/archive/8_1/07_cujse_10025.pdf

List of Books and Book Chapters

1. Ertuğrul, D. Ç., & Elçi, A. (2018). Educational Activity Suggestion System of Children With Pervasive Developmental Disorder for Guiding Education and Training Staff Activities. In Handbook of Research on Contemporary Perspectives on Web-Based Systems (pp. 142-165). IGI Global.
2. Çelenk, U., Ertuğrul, D. Ç., Zontul, M., Elçi, A., & Uçan, O. N. (2018). Dynamic Quota Calculation System (DQCS): Pricing and Quota Allocation of Telecom Customers via Data Mining Approaches. In Handbook of Research on Contemporary Perspectives on Web-Based Systems (pp. 434-459). IGI Global.
3. International Book Chapter: Duygu Çelik, Atilla Elçi, Ontology-based Matchmaking and Composition of Business Processes, Book Chapter on Semantic Agent Systems-Foundations and Applications, Atilla Elçi, Mamadou T. Kone, and Mehmet A. Orgun (Editors:), V. 344 in Studies in Computational Intelligence Series by Springer-Verlag, Chapter 7, pp: 133-157. ISBN 978-3-642-18307-2
4. International Book Chapter: Duygu Çelik, Atilla Elçi, An Ontology-Based Information Extraction Approach for Résumés, Book, Lecture Notes in Computer Science, Volume 7719, 2013, Joint International Conference, ICPCA/SWS 2012, Istanbul, Turkey, November 28-30, 2012, Revised Selected Papers, Editors: Qiaohong Zu, Bo Hu, Atilla Elçi, ISBN: 978-3-642-37014-4 (Print), 978-3-642-37015-1 (Online), DOI 10.1007/978-3-642-37015-1, Chapter 15, pp. 165-179, 2013, <http://link.springer.com/book/10.1007%2F978-3-642-37015-1>.
5. International Book Chapter: Elena Railean, Atilla Elçi, Duygu Çelik, Alev Elçi, Metasystems Learning Design Approach for STEM Teaching and Learning, STEM Education: An Overview of Contemporary Research, Trends, and Perspectives, Cycloid Publications, ISBN:978-0-9966741-1-9 Chapter 3, pp. 54-83, 2016, Nebraska 68022, USA.
6. International Book Chapter: Atilla Elçi, Alev Elçi, Duygu Çelik Semantic Modelling for E-Learning Coordination, Revolutionizing Modern Education through Meaningful Implementation. 170116-024253, IGI Global Chapter:11, DOI: 10.4018/978-1-5225-0466-5.ch011, Chapter 11, pp. 191-225, 2016.
7. International Book: Duygu Çelik, Atilla Elçi, Composition of OWL-S based Atomic Processes, LAP LAMBERT Academic Publishing GmbH & Co., <https://www.lap-publishing.com/catalog/details//store/gb/book/978-3-8465-5140-0/composition-of->

owl-s-based-atomic-processes, ISBN: 978-3-8465-5140-0, 7719, EAN: 9783846551400, Number of pages: 176, 2011-11-25, Saarbrücken, Germany.

List of International Conference Publications

1. Tacyildiz, O., Ertugrul, D. C., Bitirim, Y., Akcan, N., & Elci, A. (2018, July). Ontology-Based Obesity Tracking System for Children and Adolescents. In 2018 IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC)(pp. 329-334). IEEE.
2. Ertugrul, D. Ç., Elçi, A., & Bitirim, Y. (2017, July). An Intelligent Tracking System: Application to Acute Respiratory Tract Infection (TrackARTI). In Computer Software and Applications Conference (COMPSAC), 2017 IEEE 41st Annual (Vol. 2, pp. 137-142). IEEE.
3. Duygu Çelik Ertuğrul, Hakan Kanmaz, Mehmet Uğur Yüksel, Atilla Elçi, Mehmet Ertuğrul, Fetal Heart Rate Monitoring System (FHRMS), IEEE ESAS 2016: The 11th IEEE International Workshop on E-Health Systems and Semantic Web Held in conjunction with COMPSAC, IEEE 40th Annual Computer Software and Applications Conference (COMPSAC), 10–14 June, 2016, Atlanta, USD.
4. Çifçi, M. A., Ertugrul, D. Ç., & Elçi, A. (2016, June). A Search Service for Food Consumption Mobile Applications via Hadoop and MapReduce Technology. In Computer Software and Applications Conference (COMPSAC), 2016 IEEE 40th Annual (Vol. 2, pp. 77-82). IEEE.
5. Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Bora Gökçe, Pelin Hürcan, A Safety Food Consumption Mobile System through Semantic Web Technology, ESAS 2014: 9th IEEE International Workshop on Engineering Semantic Agents - Semantics, Agents and Intelligence, Held in conjunction with COMPSAC, 38th Annual, DOI: 10.1109/COMPSACW.2014.126, ISBN: 978-1-4799-3578-9, WOS:000352787700060, pp. 348 - 353, 21–25 July, 2014, Västerås, Sweden.
6. Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Bora Gökçe, Pelin Hürcan, Mobile Pediatric Consultation and Monitoring System through Semantic Web Technology, ESAS 2014: 9th IEEE International Workshop on Engineering Semantic Agents - Semantics, Agents and Intelligence, Held in conjunction with COMPSAC, 38th

Annual IEEE, ISBN: 978-1-4799-3578-9, WOS:000352787700060, pp. 354 - 359, 21–25 July, 2014, Vasteras, Sweden.

7. Duygu Çelik, Aşkın Karakaş, Gülşen Bal, Cem Gültunca, Atilla Elçi, Başak Buluz, Murat Can Alevli, Towards an Information Extraction System based on Ontology to Match Résumés and Jobs, ESAS 2013: 8th IEEE International Workshop on Engineering Semantic Agents - Semantics, Agents and Intelligence, Held in conjunction with COMPSAC, 37th Annual IEEE International Computers, Software, and Applications Conference (COMPSAC), ISBN: 978-0-7695-4987-3, WOS:000331223100057, pp. 333-338, July, 2014., Kyota, Japan.
8. Duygu Çelik, Atilla Elçi, Esra ÇALIK, Ayman Khalil, Development of Semantic Model and Information Exploration System for TV Media, ESAS 2012: The 7th IEEE International Workshop on Engineering Semantic Agent Systems, Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications, July 16-20, 2012, İzmir, Turkey.
9. Duygu Çelik, Akın Eray ELVERİCİ, Atilla Elçi, Necati İNAN, Educational Activity Finder for Children with Pervasive Developmental Disorder through a Semantic Search System, In Proc. the Industrial Track, the 36th IEEE Signature Conference on Computers, Software, and Applications- COMPSAC 2012, DOI: 10.1109/COMPSAC.2012.84, ISBN: 978-0-7695-4736-7, WOS:000312376000084, 1, pp. 482-487, July 16-20, 2012, İzmir, Turkey.
10. Duygu Çelik, Atilla Elçi, Eray ELVERİCİ, Finding Suitable Course Material through a Semantic Search Agent for Learning Management Systems of Distance Education, Proc. 6th IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2011) in conjunction with the 35th Computer Software and Applications Conference (COMPSAC 2011) DOI: 10.1109/COMPSACW.2011.71, pp. 386-391, July 18 - 22, 2011, Munich, Germany.
11. Aslı Apaydın, Duygu Çelik, Atilla Elçi, Semantic Image Retrieval Model for Sharing Experiences in Social Networks DOI: <http://dx.doi.org/10.1109/COMPSACW.2010.11>, 5th IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2010) conducted in conjunction with the 34th Computer Software and Applications Conference (COMPSAC 2010), Sponsored by IEEE Computer Society, July 19-23, 2010, Seoul, South Korea.

12. Duygu Çelik, Atilla Elçi, Ontology-based QoS Queuing Model for Selection of Web Services Servers, 5th IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2010) conducted with the 34th Computer Software and Applications Conference (COMPSAC 2010), July 19-23, 2010, Seoul, South Korea.
13. Duygu Çelik, Atilla Elçi, Semantic Web Enabled Composition of Semantic Web Services, In Proc. 4th IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2009) in conjunction with 33rd COMPSAC, ISBN: 978-1-4244-4525-7, WOS:000274261400112, pp. 719 - 724, July 20 - 24, 2009, Seattle, WA, USA.
14. Duygu Çelik, Atilla Elçi, Semantic QoS Model for Extended IOPE Matching and Composition of Web Services, In Proc. 1st IEEE International Workshop on Semantics for Business Process Management (SemBPM 2008) COMPSAC '08. 32nd Annual IEEE International, IEEE Computer Society Press DOI 10.1109/COMPSAC.2008.208., pp. 993 – 998, August 2008, Turku, Finland.
15. Duygu Çelik, Atilla Elçi, Discovery and Scoring of Semantic Web Services Based on Client Requirement(s) through a Semantic Search Agent, Proc. IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2006) conj. with 30th COMPSAC Annual International Computer Software & Applications Conference-IEEE Computer Society Press, ISBN: 0-7695-2655-1, WOS:000241645100051, 2, pp. 273-278, 17-21 September 2006, Chicago, Illinois, USA.
16. Duygu Çelik, Atilla Elçi, A Semantic Search Agent Discovers Suitable Web Services According to an E-Learning Client Demand, Proc. 6th International Educational Technology Conference (IETC 2006), 1, pp. 416-424, 19-21 April 2006, Gazimagusa, TRNC.
17. Duygu Çelik, Atilla Elçi, Searching Semantic Web Services: An intelligent agent approach using semantic enhancement of client terms and Matchmaker Algorithm, International Conference on Intelligent Agents, Web Technologies and Internet Commerce- IAWTIC 2005 Proceeding: IEEE Publ., ISBN: 0-7695-2504-0, WOS:000239915100151, pp. 916- 921, 28-30 November 2005, Vienna, Austria
18. Duygu Çelik, Atilla Elçi, A Semantic search agent approach: Finding appropriate semantic Web services based on user request term(s), Enabling Technologies for the New Knowledge Society, ITI 3rd International Conference on Information &

Communication Technology (ITICT 2005) 10.1109/ITICT.2005.1609659, pp. 675-687, 5-6 December 2005, Cairo, Egypt.

List of National Conference Publications

1. Samet Dinçer, Emre Rifat Yıldız, Yıltan Bitirim and Duygu Çelik Ertuğrul. Google Play Mağazası Üzerinden Kullanıcının Erişebildiği Akıllı Park Sistemi Mobil Uygulamaları Üzerine Bir Çalışma, Akıllı Sistemlerde Yenilikler ve Uygulamalar (ASYU) Konferansı, İlaaddin Keykubat Üniversitesi, İzmir Katip Çelebi Üniversitesi ve Yıldız Teknik Üniversitesi, 5 - 7 Ekim 2017, Alanya.
2. Mehmet Uğur Yüksel ve Duygu Çelik Ertuğrul, (2017). UBICTUS, 2. Ulusal Biyomedikal Cihaz Tasarımı ve Üretimi Sempozyumu. Fetal Kalp Hızı Monitörizasyon Sistemi için Mobile Entegre Doppler Cihazı Geliştirilmesi (mDoppler). Istanbul, Turkey, pp.10-17.
3. Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Esra Ekren, Pelin Hürçan, Kübra Boz, Semantik Web Teknolojileri ile Güvenli Gıda Tüketimi Mobil Sistemi- A Safety Food Consumption Mobile System (SFCMS) through Semantic Web technology, TIPTEKNO'14, Tıp Teknolojileri Ulusal Kongresi, pp.172-175, 25 – 27 Eylül 2014, Kapadokya, Turkey.
4. Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Esra Ekren, Pelin Hürçan, Kübra Boz, Semantik Web Teknoloji Yoluyla Mobil Pediatrik Danışma ve Hasta İzleme Sistemi- Mobile Pediatric Consultation and Monitoring System through Semantic Web technology, TIPTEKNO'14, Tıp Teknolojileri Ulusal Kongresi, pp.176-179, 25 – 27 Eylül 2014, Kapadokya, Turkey.
5. Duygu Çelik, Atilla Elçi, Esra ÇALIK, TV Medyası/Ortamı İçin Anlamsal Veri Modeli ve Bilgi Keşif Sisteminin Geliştirilmesi, Çankaya Üniversitesi MTS5- 5.Mühendislik ve Teknoloji Sempozyumu Programı, pp.134-140, April 26-27, 2012, Ankara, Turkey.
6. Duygu Çelik, Atilla Elçi, Candan Çelik, Akın Eray Elverici , Necati İnan , Uzaktan Eğitim Ders Yönetim Sistemi için Anlamsal Tabanda Kaynak Tarama Ajanı, Çankaya Üniversitesi 4.ncü Mühendislik ve Teknoloji Sempozyumu (MTS4 2010), April 28-29, 2011, Ankara, Turkey.

7. Duygu Çelik, Atilla Elçi, OWL-S Tabanlı Atomik Süreçlerin Birleşimi Üzerine Semantik Tabanlı İş Akışı Modeli, Çankaya Üniversitesi 3.ncü Mühendislik ve Teknoloji Sempozyumu (MTS3 2010), April 29-30, 2010, Ankara, Turkey.

List of TÜBİTAK & SANTEZ & A-Type BAP Research & Development Projects

1. Project Name: “An Intelligent Tracking System: application to Acute Respiratory Tract Infection (TrackARTI)” (Idea owner & Partnership and Academic Advisor: Asst.Prof.Dr.Duygu Çelik Ertuğrul), TÜBİTAK Grant Program: TÜBİTAK 2510-Joint Research Project: Turkey (TÜBİTAK) and Tunis(MHESR), Partners: Turkish Side: Prof. Dr. Atilla Elçi(Co-director), Asst.Prof.Dr. Duygu Çelik Ertuğrul (Advisor), Asst.Prof.Dr. Neşe Akcan (Pediatrician), MS.Std. Gökhan Taymaz(Researcher), Tunisian Side: Assoc. Prof. Dr. Hajer Baazaoui Zghal (Co-director), Prof. Dr. Narjes Bellamine, Dr. Ines Gam, Project No: TBD, Project Time: 21.05.2017 - 31.08.2019, Ankara, Turkey.
2. Project Name: “Pediatric Wearable Device Design and Vital Values Tracking System of Pediatric Patients” (Idea owner & Partnership and Academic Advisor: Asst.Prof.Dr.Duygu Çelik Ertuğrul), Partners: Semantica Internet and Software Services Trd. Ltd. Co. & Acibadem Health Group, Budget: 1.000.000 TL, Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), TÜBİTAK Grant Program: TÜBİTAK 1511- Priority Areas Research Technology Development & Innovation Projects Support Program, Project No: 1150538, Project Time: 01.01.2016 - 30.06.2017, Ankara, Turkey, 2016.
3. Project Name: “Fetal Heart Rate Monitoring System (FHRMS) and Mobile Integrated Doppler Device (m - Doppler) Project” (Idea owner & Partnership and Project Manager: Asst. Prof. Dr. Duygu Çelik Ertuğrul), Partners: Istanbul Aydin University and Acibadem Health Group, Budget: 132.000 TL, SAN - TEZ Ministry of Science, Industry and Technology, Project No: 0763.STZ.2014, Project Time: 01.01.2015 - 31.03.2016, Ankara, Turkey, 2014.
4. Project Name: “Ontology-based Remote Pediatric Consultation and Monitoring System that Suggests Supportive Medical Steps for Parents via Inferencing” (Idea owner & Partnership and Academic Advisor: Asst. Prof. Dr. Duygu Çelik Ertuğrul), Partners: Semantica Internet and Software Services Trd. Ltd. Co., Istanbul Aydin University, and Acibadem Health Group, Budget: 677.000 TL, Supported by: The

- Scientific and Technological Research Council of Turkey (TÜBİTAK), Grant Program: TÜBİTAK 1501 Industry Research & Development Support Program, Project No: 3140242, Project Time: 01.04.2014- 30.06.2015, Ankara, Turkey, 2014.
5. Project Name: “FoodWiki: Ontology-driven Mobile Safety Food Consumption System” (Idea Owner & Partnership and Academic Advisor: Asst. Prof. Dr. Duygu Çelik Ertuğrul), Partners: Semantica Internet and Software Services Trd. Ltd. Co., Istanbul Aydin University, and Acibadem Health Group, Budget: 526.000 TL, Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), Grant Program: TÜBİTAK 1501 Industry Research & Development Support Program, Project No: 3140417, Project Time: 01.07.2014 - 30.09.2015, Ankara, Turkey, 2014.
 6. Project Name: “Valuable Goods and Money Transfer Management Profitability Optimization Decision Support System Development via Semantic Web Technology”, In Turkish: “Semantic Web Teknolojisi ile Değerli Eşya ve Para Nakil Yönetimi Karlılık Optimizasyon Karar Destek Sistemi Geliştirilmesi” (Academic Advisor: Asst. Prof. Dr. Duygu Çelik Ertuğrul), Partners: Semantica Internet and Software Services Trd. Ltd. Co., Istanbul Aydin University, and Erk Technology Trd. Ltd. Co., Budget: 424.070,38 TL, Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), TÜBİTAK Grant Program: TÜBİTAK 1507 RE-DE Startup Support Program, Project No: 7140490, Project Time: 01.11.2014 - 30.04.2016, Ankara, Turkey, 2014.
 7. Project Name: “For multi-location organizations; Project Management Reporting and Decision Support System Development”, In Turkish: “Çok Lokasyonlu Organizasyonlara Yönelik; Proje Yönetimi Raporlama ve Karar Destek Sisteminin Geliştirilmesi” (Academic Advisor: Asst. Prof. Dr. Duygu Çelik Ertuğrul), Partners: Istanbul Aydin University and Compello Tic. Ltd. Co, and Turktek Tech. Development and Transfer Center Ltd. Co, Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), TÜBİTAK Program: TÜBİTAK 1507 RE-DE Startup Support Program, Project No:7131323, Project Time: 01.12.2013 - 31.05.2015, Ankara, Turkey, 2014.
 8. Project Name: “Personal Safety in Food Consumption via Smart Devices by reading QR codes/Barcodes”, Project owner: Semantica Internet and Software Services Trd. Ltd. Co., Project Manager & Idea ownership: Asst.Prof.Dr.Duygu Çelik Ertuğrul,

Budget: 100.000 TL (Grant Support), Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), TÜBİTAK Grant Program: TÜBİTAK 1512 Entrepreneurship Progressive Support Program, Project No: 2120357, Project Time: 01.07.2013 - 31.06.2014, Ankara, Turkey, 2013.

9. Project Name: “Document - based Semantic Information Extraction System from Turkish Résumés through Ontology” (Academic Advisor: Asst.Prof.Dr. Duygu Çelik Ertuğrul) Partners: Kariyer.net Electronic Publishing and Communications Services Incorporated Company and Istanbul Aydın Üni., Budget: 544.951,95 TL, Project Time: 01.05.2011-31.12.2012, Project No: 3110289, Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), Grant Program: TÜBİTAK 1501 Industry Research & Development Support Program, Ankara, Turkey, 2012.
10. Project Name: “Dynamically examining the charging algorithms of data usage and quota systems in GSM systems” – Academic Advisor & Associate Researcher at the Project: Asst. Prof. Dr. Duygu Çelik, Avea Communication Services Inc., & Istanbul Aydın Uni, Budget: 230.000 TL, SAN - TEZ Ministry of Science, Industry and Technology, Project No: 00874.STZ.2011–1, Project Time: 2011- 2013, Ankara, Turkey, 2011.
11. Project Name: “Provision of Semantic Web Services through an Intelligent Semantic Web Service Finder”, supported by Eastern Mediterranean University, ‘A’ Type Project, Project no: BAP- A – 0720, Budget: \$6.200, Associate Researcher, Project Time: 01.02.2008 - 01.06.2010, Famagusta, Mersin-10, TRNC, TURKEY.

Scientific and Academic Memberships

- Association for Computing Machinery
- IEEE & IEEE Computer Society

Awards

- Full Scholarship, PhD Degree, Eastern Mediterranean University, 2005-2010.
- Full Scholarship, MS Degree, Eastern Mediterranean University, 2003-2005.
- Full Scholarship, BS Degree, Eastern Mediterranean University, 1999-2003.
- “Personal Safety in Food Consumption via Smart Devices by reading QR codes” – Proje No: 2120357 nolu proje ile TÜBİTAK 1512 Girişimcilik Aşamali Destek

Programi'ndan 100.000 TL bütçe desteği almaya hak kazanmıştır (http://www.tubitak.gov.tr/tubitak_content_files/TEYDEB/duyurular/1512-1-Asama-kazananlar-listesi.pdf).

Given Courses of the Undergraduate & Graduate Degree (Turkish & English)

- CMSE 322- Software Design
- BLGM 412 Yazılım Mühendisliği
- CMPE 412 Software Engineering
- CMSE 473 Software Process & Project Management
- BYL569 Web Tabanlı Programlama
- BYL587 Ağ Yapıları ve İnternet Kullanımı
- BYL590 Teknoloji ve İnsan Etkileşimi
- BYL592 Eğitim Amaçlı Web Sayfası Tasarımı
- BYL614 Bilişim Sistemi Proje Yönetimi
- COM105 Technology Usage And Social Impacts-I
- COM106 Technology Usage And Social Impacts-II
- COM205 Visual Programming
- COM212 Introduction To Web Technologies (Java, Jsp, Db Programming)
- COM314 Digital System Design (EEE333)
- COM315 Internet Programming (SENG315)
- COM317 Theory of Computation
- COM319 Advanced Programming (COM339, SENG104)
- COM329 Web Programming
- COM408 Web Technologies And Applications
- COM462 Introduction To Semantic Web
- ELKT101 Temel Elektronik
- ITYZ557 İnternet Yazılımları
- MAT101 Matematik-I
- MAT102 Matematik-II
- Mikro İşlemciler ve Assembler Programlama
- SEN223 Object Oriented Programming (SEN265, COM208, SENG202)
- SEN234 İnternet Programming-I
- SEN331 İnternet Programming-II (COM206)

- SEN445 Special Topics In Software Engineering-I
- SEN446 Special Topics In Software Engineering-II
- SENG401 Software Engineering Applications
- Digital System Design (VHDL Programming)
- Computer Architecture
- BYL553 Veri Yapıları ve Algoritmalar
- BYL554 Nesne Tabanlı Programlama
- BYL555 Veri Tabanı Yönetim Sistemleri
- BYL557 Ağ Yapıları ve İnternet Kullanımı

Research Topics

- Web Technologies
- Semantic Web (Web 3.0)
- M-Health systems & E-health systems, E-learning, E-commerce etc.
- Mobile Health Recommendation Systems
- Discovery and Composition of OWL-S based Semantic Web Services
- Semantic Search Agents
- Semantic-based Social Networks on Web
- Special Purpose Microprocessors
- Sensor based Mobile Health Systems

Ph.D Thesis Topic

The PhD dissertation is discussed the developing an Inference-based Semantic Composition Agent (SCA) that employs inference techniques. The semantic composition agent system is responsible for the synthesis of new services from existing ones in a semi-automatic fashion. The aim of the system is to discover composable processes at first among OWL-S based atomic processes that are running possibly under different Web servers and then execute them in the order specified by a planner to reach a complex requested goal.

Used Tools and Computer Languages

- JAVA Programming, Java based Servlets, JSP, Beans, Classes, GUI...

- Semantic Web Programming (OWL-S API, OWL API, JENA API, PREFUSE API, etc.)
- Android Programming
- OWL Language for Ontology Knowledge bases (by using Protégé Ontology Editor)
- Developing Ontology Rule Knowledgebase via SWRL (Semantic Web Rule Language)
- OWL-S Language for Semantic Web Services (SWSs)
- RDF Language
- Database (MY-SQL, SQL Server, ADO.NET, MS Access)
- Hardware Programming Tools: VHDL, ALTERA MAX PLUS II, QUARTUS
- HTML, XHTML, HTML 5, Java Script, XML, CSS2, CSS3 etc.
- Visual Basic 6.0, C, C++, MATLAB
- .NET Framework (VB.NET, C#.NET, ASP.NET)

List of Supervised Graduate Thesis

1. MS. Std. Hakan Kanmaz, Mobil Fetal Kalp Hızı Monitörizasyon Sistemi (Fkhms) Geliştirilmesi, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilgisayar Mühendisliği Programı, İstanbul Aydın Üniversitesi, Fen Bilimleri Enstitüsü, Master Thesis, July 2018, İstanbul, Turkey.
2. MS. Std. Gökhan Taymaz, TRACKARTI: Akut Solunum Yolu Enfeksiyonu Geçiren Çocuk Hastalar İçin Mobil Sağlık Takip Sistemi, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilgisayar Mühendisliği Programı, İstanbul Aydın Üniversitesi, Fen Bilimleri Enstitüsü, Master Thesis, July 2018, İstanbul, Turkey.
3. MS. Std. Basma Anber, Diagnosing Diabetic Retinopathy from Colored Fundus Images, Eastern Mediterranean University, Computer Engineering, Institute of Graduate Studies and Research, September 2017, Gazimağusa, North Cyprus.
4. MS. Std. Mehmet Uğur Yüksel, Fetal Kalp Hızı Monitörizasyon Sistemi (FKHMS) ve Mobil Entegre Doppler (M-Doppler) Cihazının Geliştirilmesi, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilgisayar Mühendisliği Programı, İstanbul Aydın Üniversitesi, Fen Bilimleri Enstitüsü, Master Thesis, July 2017, İstanbul, Turkey.
5. MS. Std. Mehmet Akif ÇİFÇİ, Hadoop ve Map Reduce Teknolojisi Aracılığıyla Gıda-Tabanlı Mobil Uygulamalar için bir Arama Hizmeti, İstanbul Aydın Üniversitesi, Fen

Bilimleri Enstitüsü, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilgisayar Mühendisliği Programı, MASTER THESIS, 26 July 2016, İstanbul, Turkey.

6. MS. Std. Özlem DEMİRAL, Otizmlı Çocukların Eğitimiyle İlgili Bir Web Portalı Tasarımı, İstanbul Aydın Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilgisayar Mühendisliği Programı, MASTER THESIS, 26 July 2016, İstanbul, Turkey.
7. MS. Std. Necati İnan-Yaygın Gelişimsel Bozukluğu Olan Çocuklara Yönelik Ontoloji Tabanlı Eğitsel Etkinlik Keşif Sistemi (Tezsiz Yüksek Lisans), İstanbul Aydın Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilişim Destekli Öğretim Teknolojileri, MASTER WITHOUT THESIS, 28 June 2012, İstanbul , Turkey.
8. MS.Std. Akın Eray ELVERİCİ-Anlamsal Web Yaklaşımı ile Asperger Sendromlu Çocuklara Yönelik Etmen Tabanlı Eğitsel Faaliyet Etkinlik Keşif Sistemi Ontoloji Bilgi Tabanı (Tezsiz Yüksek Lisans), İstanbul Aydın Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği Ana Bilim Dalı, Bilişim Destekli Öğretim Teknolojileri, MASTER WITHOUT THESIS, 28 June 2012, İstanbul, Turkey.

Ongoing Supervised PHD Thesis

Degree	University	Department	Std Name	Expected Grad
Ph.D	Eastern Mediterranean Uni.	Computer Eng.	Zina Balisini	2020
Ph.D	Eastern Mediterranean Uni.	Computer Eng.	Basma Anber	2021
Ph.D	Eastern Mediterranean Uni.	Computer Eng.	Selin Bitirim	-

International Conference Events Organizations

1. Guest Editor, SI: "Special Issue on e-Health and Staying Smarter", **Expert Systems: The Journal of Knowledge Engineering**, Web Site: [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1468-0394](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1468-0394), Editors-in-Chief: Jon G. Hall, Online ISSN: 1468-0394, Published by Wiley, ISI Journal Citation Reports © Ranking: 2016: 59/104 (Computer Science Theory & Methods); 92/133 (Computer Science Artificial Intelligence), SI: <https://wol-prod->

cdn.literatumonline.com/pb-assets/assets/14680394/Special%20Issue%20on%20e-Health%20and%20Staying%20Smarter%20EXSY%20SI%20120318.pdf

2. Workshop Organizer, IEEE ESAS 2018: The 13th IEEE International Workshop on E-Health Systems and Semantic Web Held in conjunction with COMPSAC, IEEE 42th Annual Computer Software and Applications Conference (COMPSAC), 23-27 July, 2018, Tokyo, Japan, <https://www.computer.org/web/compsac2018/esas>
3. Steering Committee, IEEE COMPSAC 2017- IEEE Computer Society International Conference on Computers, Software & Applications - Building Digital Autonomy for a Sustainable World, Torino, Italy July 4-8, <https://www.computer.org/web/compsac2017/compsac-organizers>
4. Workshop Organizer, IEEE ESAS 2017: The 12th IEEE International Workshop on E-Health Systems and Semantic Web Held in conjunction with COMPSAC, IEEE 41th Annual Computer Software and Applications Conference (COMPSAC), 4-7 July 2017, Torino, Italy, <https://www.computer.org/web/compsac2017/esas>
5. Workshop Organizer, ESAS 2016: The 11th IEEE International Workshop on E-Health Systems and Semantic Web, in conjunction with COMPSAC 2016: The 40th IEEE Computer Society International Conference on Computers, Software & Applications Atlanta, Georgia, USA - June 10-14, 2016, <https://www.computer.org/web/compsac2016/esas>
6. Workshop Organizer, ESAS 2015: The 10th IEEE International Workshop on E-Health Systems & Semantic Web, conjunction with COMPSAC 2015: The 39th IEEE Computer Society International Conference on Computers, Software & Applications, <https://www.computer.org/web/compsac/esas>
7. Workshop Organizer, ESAS 2014: The 9th IEEE International Workshop on Engineering Semantic Agents — Semantics, Agents and Intelligence conjunction with IEEE COMPSAC 2014: The 38th IEEE Computer Society International Conference on Computers, Software & Applications
8. Workshop Organizer, ESAS 2013: The 8th IEEE International Workshop on Engineering Semantic Agents - Intelligence & Robotics Held in conjunction with

- the 37th IEEE COMPSAC, the IEEE Signature Conference on Computers, Software & Applications - July 22-26, 2013 - Kyoto, Japan
9. Workshop Organizer, ESAS 2012: The 7th IEEE International Workshop on Engineering Semantic Agents Systems, in conjunction with IEEE COMPSAC 2012- 36th Annual IEEE Computer Software and Applications Conference & Workshops
 10. Workshop Organizer, ESAS 2011: The 6th IEEE International Workshop on Engineering Semantic Agents Systems Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications. COMPSAC 2011 will be held in Munich, Germany, July 18-22.
 11. Organizing Committee Co-chairs, ICPCA-SWS 2012-Pervasive Computing and the Network World- Istanbul, Turkey, November 28-30, 2012, <http://www.icpca.bcu.ac.uk/2012/organisation.html>
 12. Program Chair, Symposium on Web, Big Data & Analytics (WEDA), Web, Big Data & Analytics (WEDA), IEEE COMPSAC WEDA Symposium 2016, IEEE Transactions on Big Data Special Issue
 13. Workshops Co-Chair, 2nd International Conference on Security of Information and Networks (SIN 2009) 6-10 October 2009, Salamis Bay Conti Resort Hotel, Gazimagusa, North Cyprus, <http://www.sinconf.org/sin2009/default.html>.
 14. Tutorials Co-Chair, SINCONF 2011 4th International Conference on Security of Information and Networks, 14-19 November 2011, Sydney, Australia.
 15. Promotion Co-Chair, The 8th International Conference on Security of Information and Networks in Technical Cooperation with ACM SIGSAC September 8-10, 2015 Sochi/Russia.

Research & Development Project Exhibitions

1. 25 May 2012 TET R&D Project Exhibition, Project Name: " Kişiyeye Özgü Güvenli Gıda Tüketimine Yönelik Anlamsal Bilgi Tabanı",
2. 25 May 2012 TET R&D Project Exhibition, Project Name: "Gelişimsel Bozukluğu Olan Çocuklara Yönelik Etmen tabanlı Eğitsel Etkinlik Keşif Sistemi".
3. 06 December 2012 TUKEY Innovasyon Week, Project Name: "Gelişimsel Bozukluğu Olan Çocuklara Yönelik Etmen-tabanlı Eğitsel Etkinlik Keşif Sistemi.

Academic Management: Owner of a R & D Entrepreneurship Company

Technopark Copmany: Semantica Internet and Software Services Trd. Ltd. Co.
Owner & Manager: Asst.Prof.Dr.Duygu Çelik Ertuğrul
Email: duyguceлик@semantica.com.tr
Adres: Yıldız Technical University, Davut pasa Campus
Technology Development Zone, Incubator Office, B2 Block,
No:142 K:-1 ESENLER/ISTANBUL- TURKEY
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Fax: +90 (212) 483 70 02
Contact: info@semantica.com.tr
Web Site: <http://semantica.com.tr/tr>

Semantica Internet and Software Services Trd. Ltd.Co. is a young company established in 2013. Semantica is primarily concerned with developing computer software for our customers using the latest technologies. Semantica considers research and development as an essential feature for its future expansion to provide software and system solutions, consultancy and training in the fields of Computer & Information Technologies.

Semantica Ltd. Co. has been established at Yıldız Technical University Technopark research and development incubation center, built at Yıldız Technical University Davutpasa campus in Istanbul aimed at facilitating a cooperative environment for university academics and industry professionals, so as to empower research and development activities effectively, efficiently, and to transform scientific research into technological products.

The company is established through a supported project titled 'Personal Safety in Food Consumption via Smart Devices by reading QR codes'. Project owner: Semantica Internet and Software Services Trd. Ltd. Co., Project Manager & Idea ownership: Asst.Prof.Dr.Duygu Çelik Ertuğrul, Budget: 100.000 TL (Grant Support), Supported by: The Scientific and Technological Research Council of Turkey (TÜBİTAK), TÜBİTAK Grant Program: TÜBİTAK 1512 - Entrepreneurship Progressive Support Program, Project No: 2120357, Project Time: 01.07.2013 - 31.06.2014, Ankara, Turkey, 2013. Winners:

http://www.tubitak.gov.tr/tubitak_content_files/TEYDEB/duyurular/1512-1-Asama-kazananlar-listesi.pdf

Patent Submissions

Applicant	Patent Name	App. Date	Issue No
Semantica Internet and Software Services Trd. Ltd.Co. Şti.-Asst.Prof.Dr. Duygu Çelik	TR: Karekod/Barkod Yoluyla Mobil Ortamdan Gıda Ürünleri İçin İnatmatik Bilgi Sistemi EN: Food Information System for Food Products via Mobile Devices by reading QR Codes/Barcodes	06-09-2013	2013/10512
Asst.Prof.Dr. Duygu Çelik	TR: Akıllı Cihazlar İle Kişiyeye Özgü Güvenli Gıda Tüketimi Sistemi EN: Personal Safety in Food Consumption via Smart Devices	06/02/2013	2013/01692
Semantica Internet and Software Services Trd. Ltd.Co. Şti.- Asst.Prof.Dr. Duygu Çelik	TR: Mobil Yetişkin/Pediatrik Hasta Ön muayene ve İzleme Sistemi EN: Mobile Adult / Pediatric Patient Diagnosing and Monitoring System via Mobile devices	16-12-2014	2014/15237

Review for journal, conference, workshop and symposium manuscripts

- TV-TG, Technical Gazette, 2015.
- TJCA, International Journal of Computers and Applications, 2015.
- COMPSAC 2016, 40th Annual IEEE International Computers, Software & Applications Conference, June 10--14, 2016, Atlanta, Georgia, USA.
- TELS, The Journal of Telecommunication Systems, 2015.
- The Journal of Tehnicki Vjesnik/Technical Gazette, <http://www.tehnicki-vjesnik.com>, 2015. - COMPSAC 2015, 39th COMPSAC Annual International Computer Software & Applications Conference, 01 July 2015, Taiwan.
- ESAS 2015: The 10th IEEE International Workshop on Engineering Semantic Agent Systems, Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications. COMPSAC 2015, in Taiwan, July 1-5.
- COMPSAC 2014, 38th COMPSAC Annual International Computer Software & Applications Conference, July 2014, Vasteras, Sweden.
- ESAS 2014: The 9th IEEE International Workshop on Engineering Semantic Agent Systems, Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications. COMPSAC 2014 will be held in Vasteras, Sweden, July 2014.
- COMPSAC 2012, 36th COMPSAC Annual International Computer Software & Applications Conference, 16 July 2012, Izmir, Turkey.
- ESAS 2012: The 7th IEEE International Workshop on Engineering Semantic Agent Systems, Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications. COMPSAC 2012 will be held in İzmir, Turkey, July 16-20.
- COMPSAC 2012, 36th COMPSAC Annual International Computer Software & Applications Conference, 16 July 2012, Izmir, Turkey.
- ESAS 2011: The 6th IEEE International Workshop on Engineering Semantic Agent Systems, Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications. COMPSAC 2011 will be held in Munich, Germany, July 18-22.
- WEBIST 2010, 6th Intl. Con. on Web Info. Systems & Technologies, 7-10 April 2010, Valencia, Spain.

- TÜBİTAK destekli proje yardımcı hakemliği, Anlamsal Web ve Web servisi Arama Ajanları üzerine, May 2010.
- COMPSAC 2009, 33rd COMPSAC Annual International Computer Software & Applications Conference, 20 July 2009, Seattle, Washington, USA.
- COMPSAC 2008, 32nd COMPSAC Annual International Computer Software & Applications Conference, 28 July – 1 August 2008, Turku, Finland.
- COMPSAC 2007, 31nd COMPSAC Annual International Computer Software & Applications Conference, 24-27 July 2007, Beijing, China.
- ESAS 2010 in conjunction with 34th COMPSAC Annual International Computer Software & Applications Conference, during 19-23 July 2010, Seoul, South Korea.
- ESAS 2007, in conjunction with 31st COMPSAC Annual International Computer Software & Applications Conference, 24-27 July 2007, Beijing, China.
- ESAS 2006, in conjunction with 30th COMPSAC Annual International Computer Software & Applications Conference, 17-21 September 2006, Chicago, Illinois, USA
- A Special Issue for ESAS 2007-2008 for The Expert Systems: The Journal of Knowledge Engineering (SCI_E) by Blackwell Publishing is reviewed.
- NCM2009, 6th International Conference on Networked Computing and Advanced Information Management, August 25-27 2009, Seoul-Korea.
- ISCTURKEY 2008, Bilgi Güvenliği ve Kriptoloji (Information Security and Cryptology Conference with International Participation),13-14 December 2007, Sheraton Hotel & Convention Center, Ankara,Turkey.
- KROW 2008, Knowledge Representation Ontology Workshop, September 17, 2008, September 16-19, Sydney, Australia.

International Conference on Security of Information and Networks conference series:

- SIN 2010, 7-11 September 2009, Taganrog, Rostov-on-Don, Russia.
- SIN 2009, 6-10 October 2009, Gazimagusa, North Cyprus.
- SSIRI 2010, The Fourth IEEE International Conference on Secure Software Integration and Reliability Improvement, Singapore, 9-11 June, 2010
- SSIRI 2009, IEEE International Conference on Secure Software Integration and Reliability Improvement, 8-10 July 2009, Shanghai, China.
- ICWS 2009, IEEE 7th International Conference on Web Services, July 6-10, 2009, Los Angeles, CA, USA.

- ISCIS 2009, 24th International Symposium on Computer and Information Sciences, Guzelyurt, Northern Cyprus, September 14-16, 2009, Middle East Technical University, Northern Cyprus Campus.
- SIN 2014, Elsevier, Journal of Information Security and Applications, <http://ees.elsevier.com/jisa/> SIN 2013, Elsevier, Journal of Information Security and Applications, <http://ees.elsevier.com/jisa/>