

## CV

### 1. Atilla ELÇİ

2. **Born:** 05 July 1945

3. **Title:** Prof. Dr.

4. **Education:**

| Title                    | Dept.                                        | Faculty         | University        | Years att'd |
|--------------------------|----------------------------------------------|-----------------|-------------------|-------------|
| B.Sc<br>(Honor roll)     | Electrical Engineering<br>(Computer/Control) | Engineering     | METU, Türkiye     | 1964-70     |
| M.Sc.                    | Computer Sciences                            | Graduate School | Purdue Univ., USA | 1972-73     |
| Doktorate<br>(5.60/6.00) | Computer Sciences                            | Graduate School | Purdue Univ., USA | 1973-75     |

5. **Academic Titles:**

|              |                          |                     |                              |             |
|--------------|--------------------------|---------------------|------------------------------|-------------|
| Instructor   | Computer Engineering     | Engineering Faculty | METU, Türkiye                | 1976-77     |
| Asst. Prof.  | Computer Engineering     | Engineering Faculty | METU, Türkiye                | 1978-83     |
| Assoc. Prof. | Software Engineering     | Engineering Faculty | METU, Türkiye                | 1983-85     |
| Prof.        | Computer Engineering     | Engineering Faculty | Toros Univ., Türkiye         | 2010-2011   |
| Prof.        | Computer-based LTE       | Education Faculty   | Süleyman Demirel U., Türkiye | 2011-2012   |
| Prof.        | Electrical & Electronics | Engineering Faculty | Aksaray U., Türkiye          | 2012 - 2017 |
| Prof.        | Software Engineering     | Engineering Faculty | Hasan Kalyoncu Uni., Türkiye |             |

## 2. ACADEMIC & PROFESSIONAL EXPERIENCE

| Years     | Title                                             | Organization                                                                      | Department                                      |
|-----------|---------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------|
| 1973-75   | Research Asst. (SWE)                              | Purdue U., USA                                                                    | Physics/High Energy Ph. Lab.                    |
| 1976-85   | Inst., Asst.Prof.,<br>Assoc.Prof.                 | METU, Türkiye                                                                     | Computer Engineering                            |
| 1978-81   | Assist. Chairman                                  | METU, Türkiye                                                                     | Comp. Eng., and manager of the METU Comp Center |
| 1981-83   | Chairman                                          | METU, Türkiye                                                                     | Comp. Eng., METU Comp Center                    |
| 1985-97   | Chief Tech Adviser<br>(project design &<br>exec.) | International<br>Telecommunication Union,<br>Switzerland                          | Development Section                             |
| 1997-2003 | Owner, manager                                    | IT&T Information Technology<br>and Telecoms Industry &<br>Trade Ltd., Ankara, TR. | Informatics services                            |
| 2001-03   | Assoc. Prof., Founding<br>Chairman                | Haliç University, Türkiye                                                         | Computer Engineering                            |
| 2003-09   | Assoc. Prof.                                      | Doğu Akdeniz University,<br>TRNC                                                  | Computer Engineering                            |
| 2005-09   | Founder, Director                                 | Doğu Akdeniz University,<br>TRNC                                                  | Internet Technologies Research<br>Center (ITRC) |
| 2008-09   | Rector's coordinator                              | Doğu Akdeniz University,<br>TRNC                                                  | Informatics/ Campus Automation                  |
| 2010-11   | Prof., founding<br>chairman                       | Toros Univ., Türkiye                                                              | Computer Engineering                            |
| 2010-11   | Founder, Act. Director                            | Toros Univ., Turkey                                                               | Science Institute                               |
| 2010-11   | Member                                            | Toros Univ., Türkiye                                                              | Univ. Senate & Exec Council                     |
| 2011-11   | Dean                                              | Toros Univ., Türkiye                                                              | Engineering Faculty                             |
| 2011-12   | Prof., founding<br>Chairman                       | Süleyman Demirel U.,<br>Türkiye                                                   | Computer-based LTE                              |
| 2011-12   | Elected professor                                 | Süleyman Demirel U.,                                                              | Education Fac. YK                               |

|         |                                       |                                 |                                                                        |
|---------|---------------------------------------|---------------------------------|------------------------------------------------------------------------|
|         | representative                        | Türkiye                         |                                                                        |
| 2012    | Founding Director                     | Süleyman Demirel U.,<br>Türkiye | Inst of Educational Sciences                                           |
| 2012-17 | Prof., founding<br>Chairman           | Aksaray U., Türkiye             | Electrical-Electronics Eng. Dept.                                      |
| 2012-17 | Elected professors'<br>representative | Aksaray U., Türkiye             | Engineering Faculty Exec. Council                                      |
| 2012-17 | Chief                                 | Aksaray U., Türkiye             | Electronics                                                            |
| 2013-17 | Founding Chief                        | Aksaray U., Türkiye             | Science Institute Electrical-<br>Electronics & Computer<br>Engineering |
| 2020-   | Founding Prof.                        | Hasan Kalyoncu U., Türkiye      | Software Engineering Department.                                       |
| 2023-   | Chairman                              | Hasan Kalyoncu U., Türkiye      |                                                                        |

### 3. SCHOLARSHIPS & INTERNATIONAL EXPERIENCE

| Dates                        | Purpose                                                                           | Organization & Country                               |
|------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------|
| 1972 February- 1975 December | Scholarship for Ph.D. study                                                       | Ministry of National Education<br>(1416), in the USA |
| 1984-1997                    | Informatics Specialist, Chief<br>Technical Advisor, Project design &<br>execution | In about 30 countries for<br>UNDP/ITU.               |

### 4. Ph.D.

ELCI, A., Factors Affecting The Program Size of Control Functions of Operating Systems, Ph.D. Thesis, Purdue University, December 1975.

ELCI, A., The Dependence of Operating System Size Upon Allocatable Resources, Computer Science Technical Reports no: CSD-TR 75-172, Dept. of Computer Science, Purdue University, 1975. <http://docs.lib.purdue.edu/cstech/117/>.

### 5. SCIENTIFIC PUBLICATIONS

In SCI & SSCI & Arts and Humanities Journals:

- Haval Sulaiman Abdullah, Firas Alfiky, and Atilla Elci (2022). Image enhancement in wavelet domain based on histogram equalization and median filter. Journal of Engineering Research. (SCIE, SCOPUS). Vol 10 No 3A (2022). DOI: <https://doi.org/10.36909/jer.10697>  
<https://kuwaitjournals.org/jer/index.php/JER/article/view/10697>
- Senthil Kumar Narayanasamy and Atilla Elçi (2020). An Effective Prediction Model for Online Course Dropout Rate. International Journal of Distance Education Technologies (IJDET) 18(4), pp: 94-110. DOI: 10.4018/IJDET.2020100106. (ESCI & SCOPUS). <https://www.igi-global.com/article/an-effective-prediction-model-for-online-course-dropout-rate/263763>
- Atilla Elçi and Duygu Çelik (Feb 2020). Special Issue: e-Health and Staying Smarter. Expert Systems, 37/1. <https://onlinelibrary.wiley.com/toc/14680394/2020/37/1>
- Atilla Elçi and Duygu Çelik (Feb 2020). Special Issue on Disease Classification for Smart Health. Expert Systems, 37/1. <https://doi.org/10.1111/exsy.12517>.  
<https://onlinelibrary.wiley.com/doi/full/10.1111/exsy.12517>
- Atilla Elçi and Duygu Çelik (Feb 2020). Special Issue on Ontology-Based Smart Medical Solutions. Expert Systems, 37/1. <https://doi.org/10.1111/exsy.12518>.  
<https://onlinelibrary.wiley.com/doi/10.1111/exsy.12518>

- Duygu Çelik and Atilla Elçi (First online Dec 2019). A Survey on Semanticized and Personalized Health Recommender Systems. *Expert Systems*. 2020; 37:e12519 <https://doi.org/10.1111/exsy.12519>
- Duygu Çelik and Atilla Elçi (March 2014). Semantic composition of business processes using Armstrong's Axioms. *The Knowledge Engineering Review*, Vol. 29:2, 248–264. Cambridge University Press, 2014. doi:10.1017/S0269888914000083. (SCI). ISSN: 0269-8889 [http://journals.cambridge.org/repo\\_A92IA4Dd](http://journals.cambridge.org/repo_A92IA4Dd)
- Xiaoying Bai, Atilla Elçi, Mohammad Zulkernine (2014): Special issue on "Trustworthy Software Systems for the Digital Society", *Journal of Systems and Software* (Impact Factor: 1.14). Vol 89 /1, 01/2014. ISSN: 0164-1212 Pp: 1-98. doi:10.1016/j.jss.2013.12.041 SCI-E. <http://www.sciencedirect.com/science/article/pii/S0164121214000144>
- Duygu ÇELİK, Atilla ELÇİ, Necati İNAN, Eray ELVERİCİ, Alev ELÇİ (Feb. 2014): Web Ontoloji Dili (OWL) Yoluyla Gelişimsel Bozukluğu Olan Bireylere Yönelik Eğitsel Etkinlik Keşif Sistemi (Educational Activity Discovery System for Individuals with Pervasive Developmental Disorders through Web Ontology Language (OWL)). *Eğitim ve Bilim (Education and Science)*, 2014, Vol. 39, No 171. Pp:52-73. ISSN: 1300-1337. SSCI <http://egitimvebilim.ted.org.tr/index.php/EB/article/view/2112/623>
- Duygu ÇELİK, Atilla ELÇİ (2013): A broker-based semantic agent for discovering Semantic Web services through process similarity matching and equivalence considering quality of service. *Science China Information Sciences* Volume 56 Issue 1 pp:012102:1–012102:24. Jan. 2013. ISSN: 1674-733X (Print) 1869-1919 (Online) (SCI). <http://link.springer.com/article/10.1007/s11432-012-4697-1>
- Elçi, A., Pieprzyk, J., Orgun, M., & Chefranov, A. (eds., Nov. 2012): Editorial: Special Issue on The Design and Engineering of Cryptographic Solutions for Secure Information Systems. *Security and Communication Networks Journal* (Wiley, SCI-E), Volume 7, Issue 1, pp: 33-156 (Wiley, SCI-E, ISSN: 1532-0626). Article first published online: 8 NOV 2012, DOI: 10.1002/sec.646. <http://onlinelibrary.wiley.com/doi/10.1002/sec.646/pdf>. Issue published online: 27 Dec 2013.
- Duygu Çelik and Atilla Elçi (Jan. 2011). 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* Volume 12 (2011) No.1, pp: 153-170. ISSN: 1607-9264, Published by: Taiwan Academic Network Executive Committee. (SCI-E)
- Atilla Elçi, Mamadou Kone, and Mehmet Orgun (Guest Editors, Nov. 2011): Special Issue on ESAS (Engineering Semantic Agent Systems) comprising of 3 papers and Editors introduction. In *Expert Systems: The Journal of Knowledge Engineering*, ISSN: 0266-4720, Wiley/Blackwell. V:28, I: 5, Pp: 410-487. (SCI-E journal; <http://onlinelibrary.wiley.com/doi/10.1111/exsy.2011.28.issue-5/issuetoc>).
- Atilla Elci, Behnam Rahnema, and Amirhasan Amintabar (May 2010): Tracking Reported Vehicles in Traffic Management and Information System using Intelligent Junctions. In Special Issue on Vehicular Wireless Networks and Vehicular Intelligent Transportation Systems, *Journal of Information Science and Engineering*, V.26, N.3, May 2010, pp: 883-896. ISSN: 1016-2364. (SCI-E). [http://www.iis.sinica.edu.tw/page/jise/2010/201005\\_10.html](http://www.iis.sinica.edu.tw/page/jise/2010/201005_10.html)
- Atilla Elci and Behnam Rahnema: Towards Decidable Reasoning Using Hybrid Autoepistemic Operators. In *Expert Systems: The Journal of Knowledge Engineering*, ISSN: 0266-4720, Wiley/Blackwell. (Accepted; awaiting issue assignment). (SCI-E)
- Atilla Elçi (July 2005), "A Metadata for E-Learning Coordination through Semantic Web Languages", *The Turkish Online Journal of Educational Technology – TOJET Journal*, ISSN: 1303-6521, Volume 4, Issue 3, Article 3. Pp: 12-17. (<http://www.tojet.net/articles/v4i3/433.pdf>) (became SSCI subsequently).

### Other Indexed International Journals:

- Al-Rawy, M. and Elçi, A. (2019). Secure i-Voting Scheme with Blockchain Technology and Blind Signature. *Journal of Digital Science* Vol.1, Iss. 1, December. Pp: 3-14.  
[https://doi.org/10.33847/2686-8296.1.1\\_1](https://doi.org/10.33847/2686-8296.1.1_1)
- Narayanasamy, S., Muruganantham. D. & Elçi, A. (2019). Crisis and disaster situations on social media streams: An ontology-based knowledge harvesting approach. *Interdisciplinary Journal of Information, Knowledge, and Management*, 14, 343-366.  
<https://doi.org/10.28945/4420>, <https://www.informingscience.org/Publications/4420>
- KOYUNCU, E , ELÇİ, A . (2018). İLÇE BELEDİYE ÇALIŞANLARININ ÖRGÜTSEL BAĞLILIK DÜZEYLERİ: AKSARAY İLİ ÖRNEĞİ (ORGANIZATIONAL LOYALTY LEVELS OF DISTRICT MUNICIPAL EMPLOYEES: AKSARAY SAMPLE). *International Journal of Entrepreneurship & Management Inquiries (EMI)*, 2 (2), 64-73. Retrieved from  
<http://dergipark.gov.tr/ijemi/issue/38649/434827>
- Alev Elçi, Vural Merve, & Atilla Elçi (2017). Changing Role of Faculty Members in Technology Enhanced Learning Environments: Faculty Members 4.0. *TOJET Turkish Online Journal of Educational Technology*, Special issues for ITEC 20171009, pp: 1004-9.
- A. Elci, S. Bakshi, M.N. Sahoo, Editorial: Special issue on “Resilient networks: Modeling, design, and applications”, *Digital Communications and Networks* (2017), doi: 10.1016/j.dcan.2017.10.003.
- Afrah Ramadhan, Firas Mahmood, Atilla Elci (Feb. 2017). Image denoising by median filter in wavelet domain. *The International Journal of Multimedia & Its Applications (IJMA)* Vol.9, No.1, pp: 31-40, February 2017. ISSN: 0975 – 5934, e-ISSN :0975 – 5578, DOI: 10.5121/ijma.2017.9104.  
<http://aircconline.com/ijma/V9N1/9117ijma04.pdf>. <http://arxiv.org/abs/1703.06499>
- Aissa FELLAH, Mimoun MALKI and Atilla ELÇİ (2016). A Similarity Measure across Ontologies for Web Services Discovery. *International Journal of Information Technology and Web Engineering*, Volume 11 • Issue 1 • January-March 2016, ISSN:1554-1045. pp: 22-43. DOI: 10.4018/IJITWE.2016010102. ESCI.
- Aissa FELLAH, Mimoun MALKI and Atilla ELÇİ (2016). Web Services Matchmaking Based on a Partial Ontology Alignment. *International Journal of Information Technology and Computer Science (IJITCS)*, Vol. 8, No. 6, June 2016, PP.9-20. ISSN: 2074-9007 (Print), ISSN: 2074-9015 (Online), MECS Publisher. DOI: 10.5815/ijitcs.2016.06.02. p: 9-20  
<http://www.mecs-press.org/ijitcs/ijitcs-v8-n6/IJITCS-V8-N6-2.pdf>
- Atilla Elçi, Oleg Borisovich Makarevich, Manoj S. Gaur, and Mehmet A. Orgun (2016). Special Issue on Security of Information and Networks. *International Journal of Information Security and Privacy*. Volume 10 • Issue 3 • July-September-2016 • ISSN: 1930-1650 • eISSN: 1930-1669. IGI Global. Pp: iv-vi, 1-86
- Atilla Elçi, Mehmet A. Orgun, Alexander Chefranov, Manoj Singh Gaur (eds. 2015). Editorial: Special issue on security of information and networks. *Journal of Information Security and Applications*, Volume 22, June 2015, Pages 1-122. ISSN: 2214-2126. Elsevier. DOI: [10.1016/j.jisa.2015.06.002](https://doi.org/10.1016/j.jisa.2015.06.002)
- Elçi, A., Pieprzyk, J., Orgun, M., & Chefranov, A., Shankaran, R. (eds., 2013): Special Issue on Next Generation Network Architectures, Protocols, Theory, Systems and Applications. *Networking Science* (by Springer-Verlag). Volume 2, Issue 3-4, July 2013. ISSN: 2076-0310. Pp: 67-134. (<http://link.springer.com/journal/13119/2/3/page/1>)
- Atilla Elci: Text Classification by PNN-based Term Re-weighting. *International Journal of Computer Applications* 29(12):7-13, September 2011. Published by Foundation of Computer Science, New York, USA. 10.5120/3701-5188. ISSN: 0975 – 8887. Indexed: ProQuest, EBSCO, ScientificCommons. Digital Library URI: <http://www.ijcaonline.org/archives/volume29/number12/3701-5188>.


- A. Elçi, M. Kone, T. Dillon (guest editors, Aug. 2008): Multiagent and Grid Systems Journal (MAGS) Special Section on Engineering Semantic Agent Systems, Volume 4, Number 3, 2008, pp: 293-346. Includes a 2-page editorial and three research papers. Pp: 245-346. ISSN: 1574-1702 <http://dblp.org/rec/journals/mags/ElciKD08>
- D. Çelik and A. Elçi (2008): Ontology-based QoS Model for Appropriate Selection and Composition of Web Services. International Review on Computers and Software, Praise Worthy Prize S.r.l. - March 2008, Vol. 3, No. 2, pp: 176-184. ISSN:1828-6003. [http://www.praiseworthyprize.com/IRECOS-latest/IRECOS\\_vol\\_3\\_n\\_2.html#Ontology-based QoS Model for Appropriate Selection and Composition of Web Services](http://www.praiseworthyprize.com/IRECOS-latest/IRECOS_vol_3_n_2.html#Ontology-based QoS Model for Appropriate Selection and Composition of Web Services)
- D. Çelik and A. Elçi (2008). Provision of Semantic Web Services through an Intelligent Semantic Web Service Finder. In Multiagent and Grid Systems - An International Journal, Volume 4, Number 3, March 2008, pp: 315-334. ISSN: 1574-1702. DOI: 10.3233/MGS-2008-4306
- Zafer Erenel, Selahattin Kuru, and Atilla Elçi (2008): Performance of Static Agent Architecture using Centralized Matchmaking. In Sinoeuropean Engineering Research Forum Journal. ISSN: 1757-4307, Vol. 1, July 2008, pp. 17-22. (doi: sai: serf.2008.07.033) (<http://siwn.org.uk/press/sai/serf0001.htm>; <http://siwn.org.uk/events/2008/SERF08.htm>)

#### **International conference papers printed in refereed proceedings:**

- Al-Rawy M., Elci A. (2019): A Design for Blockchain-Based Digital Voting System. In: Antipova T., Rocha A. (eds) Digital Science. DSIC 2018: 32nd International Symposium on Distributed Computing. Advances in Intelligent Systems and Computing, vol 850. Springer, Cham. Pp: 397-407, DOI: 10.13140/RG.2.2.28347.67360. [https://link.springer.com/chapter/10.1007/978-3-030-02351-5\\_45](https://link.springer.com/chapter/10.1007/978-3-030-02351-5_45)  
**Received Best Paper Award.**
- O. Tacyildiz, D. C. Ertugrul, Y. Bitirim, N. Akcan and A. Elci, "Ontology-Based Obesity Tracking System for Children and Adolescents," 2018 IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC), Tokyo, Japan, 2018, pp. 329-334. doi:10.1109/COMPSAC.2018.10252
- KOYUNCU, E. ve ELÇİ, A. (2018): Organizational Loyalty Levels of District Municipal Employees: Aksaray Sample (in Turkish: İlçe Belediye Çalışanlarının Örgütsel Bağlılık Düzeyleri: Aksaray İli Örneği). In Proc. Uluslararası EMI Sosyal Bilimler Kongresi, 27-29 April 2018, Lefkoşa, TRNC.
- Alev Elçi, Merve Vural, Atilla Elçi (2017). Changing Role of Faculty Members in Technology Enhanced Learning Environments: Faculty Members 4.0. In proc. International Educational Technology Conference, 16-18 August 2017, Harvard University Campus, Cambridge, MA, USA.
- KOYUNCU, E. ve ELÇİ, A. (2017): İlçe Belediye Çalışanlarının Örgütsel Bağlılık ile İştatmini Arasındaki İlişkinin Belirlenmesine Yönelik Bir Araştırma: Aksaray Örneği (in English: A Survey Aimed at Determining Relation Between Organizational Commitment and Job Satisfaction of District Municipality Workers: Aksaray Context). In proc. Mediterranean International Conference on Social Sciences (ed. Recai Aydın), 19-22 May 2017, University of Donja Gorica, Podgorica, Montenegro. Pp: 332-342.
- Duygu Çelik Ertugrul, Atilla Elçi, Yiltan Bitirim (2017). An Intelligent Tracking System: Application to Acute Respiratory Tract Infection (TrackARTI). In Proc. IEEE ESAS 2017: The 12th IEEE International Workshop on E-Health Systems and Semantic Web, in conjunction with 2017 IEEE 41st Annual Computer Software and Applications Conference (COMPSAC), Year: 2017, Volume: 02, Pages: 137 - 142. DOI: 10.1109/COMPSAC.2017.58.

- 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, USA.
- Mehmet Akif Çifçi, Duygu Çelik Ertuğrul, Atilla Elçi, A Search Service for Food Consumption Mobile Applications via Hadoop and MapReduce Technology, 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, USA.
- KOYUNCU, E. ve ELÇİ, A. (2016): Yunus ve Taptuk Emre. In Proc. (eds. Mehmet Sami YILDIZ, Ayşegül CAN, Mehmet ÖZKAYA, and Vildan ARMAĞAN) I. Uluslararası Aksaray Sempozyumu (Tarih, Kültür, Din, Medeniyet), 27-29.10.2016, Aksaray, TR. Pp: 1064-1068. ISBN 978-605-88368-2-2, Aralık 2016.
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- Duygu Çelik Ertuğrul, Hakan Kanmaz, Mehmet Uğur Yüksel, Atilla Elçi ve Mehmet Ertuğrul (2016). Fetal Heart Rate Monitoring System (FHRMS). In Proc. 40th IEEE Annual International Computers, Software and Applications Conference, ESAS '16. June 10-14. IEEE CS & IEEE Xplore. 2016, Volume: 2, Pages: 65 - 70, DOI: 10.1109/COMPSAC.2016.116. <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7552180>
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- Mehmet Akif Çifçi, Duygu Çelik Ertuğrul ve Atilla Elçi (2016). A Search Service for Food Consumption Mobile Applications via Hadoop and MapReduce Technology. In Proc. 40th IEEE Annual International Computers, Software and Applications Conference, ESAS '16. June 10-14. IEEE CS & IEEE Xplore. 2016, Volume: 2. Pages: 77 - 82, DOI: 10.1109/COMPSAC.2016.35
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- Elci, A. (2015). (Invited Talk) Generating a Standardized Upper Ontology for Security of Information and Networks. ICC3- Computational Intelligence, Cyber Security and Computational Models, 17-19 December 2015, PSG College of Technology, Coimbatore – 641004, India. <http://www.psgtech.edu/icc3-2015/>
- Elçi, A. (2014): (Keynote Talk & paper) Isn't the time ripe for a standard ontology on security of information and networks? In Proc. SIN 2014 Security of Information and Networks, Proc. of the Seventh International Conference on Security of Information and Networks (SIN 2014; eds.: Poet, R., Elci, A., Gaur, M.S., Orgun, M.A. and Makarevich, O.), 9-11 September 2014, Glasgow, UK. Published by ACM, ISBN 978-1-4503-3033-6. Pp:1-3. doi> [10.1145/2659651.2664291](https://doi.org/10.1145/2659651.2664291); <http://dl.acm.org/citation.cfm?id=2664291>
- Rajamanickam, N., Nadarajan, R. and Elçi, A. (2014). Formal Verification of Finite State Transactional Security Policy. In Proc. The 8th International Conference on Network and System Security (NSS 2014; eds.: Man Ho Au, Barbara Carminati, C.-C. Jay Kuo), 15-17 October 2014, Xian, China. Springer *Lecture Notes in Computer Science* 8792, Springer 2014, ISBN 978-3-319-11697-6. Pp: 363-376. [http://link.springer.com/chapter/10.1007%2F978-3-319-11698-3\\_28](http://link.springer.com/chapter/10.1007%2F978-3-319-11698-3_28)
- Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Bora Gökçe, Pelin Hürçan (2014). Mobile Pediatric Consultation and Monitoring System through Semantic Web Technology. In Proc. 38th Annual International Computers, Software and Applications Conference ESAS '14, pp. 354-359. DOI 10.1109/COMPSACW.2014.61
- Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Bora Gökçe, Pelin Hürçan (2014). A Safety Food Consumption Mobile System through Semantic Web Technology. In Proc. 38th Annual International Computers, Software and Applications Conference ESAS '14, 21–25 July, 2014. pp.348-353. DOI 10.1109/COMPSACW.2014.126
- Behnam Rahnama, Makbule Canan Özdemir, Yunus Kiran, Atilla Elçi (2013): Design and Implementation of a Novel Weighted Shortest Path Algorithm for Maze Solving Robots. In Proc. the 8th IEEE International Workshop on Engineering Semantic Agent Systems, held in

conjunction with 37th COMPSAC 2013, the IEEE Signature Conference on Computers, Software, and Applications, Kyoto, Japan, July 22-26. IEEE Computer Society, Volume II. ISBN 978-0-7695-4987-3. DOI 10.1109/COMPSACW.2013.49. pp: 328-332. <http://ieeexplore.ieee.org/document/6605811/>

- Duygu Çelik, Aşkın Karakaş, Gülşen Bal, Cem Gültunca, Atilla Elçi, Başak Buluz, Murat Can Alevli (2013): Towards an Information Extraction System based on Ontology to Match Résumés and Jobs. In Proc. the 8th IEEE International Workshop on Engineering Semantic Agent Systems, held in conjunction with 37th COMPSAC 2013, the IEEE Signature Conference on Computers, Software, and Applications, Kyoto, Japan, July 22-26. IEEE Computer Society, Volume II. ISBN 978-0-7695-4987-3. DOI 10.1109/COMPSACW.2013.60. pp: 333-338.
- ÇELİK, D., ELÇİ, A., ORGUN, M.A., RAHNAMA, B. & UNLAND, R. (2013): Message from the Workshop Organizers. In Proc. the 8th IEEE International Workshop on Engineering Semantic Agent Systems, held in conjunction with 37th COMPSAC 2013, the IEEE Signature Conference on Computers, Software, and Applications, Kyoto, Japan, July 22-26. IEEE Computer Society, Volume II. ISBN 978-0-7695-4987-3. DOI: [10.1109/COMPSACW.2013.139](https://doi.org/10.1109/COMPSACW.2013.139). pp: xxxii-xxxiii.
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- Publications in 1976-2001 are omitted.

## **6. REFEREE & EDITING WORKS**

## Journal editorship:

- Editor: Computers and Electrical Engineering. (Elsevier, CAEE). ISSN: 0045-7906.
- Editor: [Expert Systems: The Journal of Knowledge Engineering](#) (Online ISSN: Wiley, 1468-0394; EiC: Jon Hall; SCI-E). October 2011 – present
- Editör: TBV Bilgisayar Bilimleri ve Mühendisliği Dergisi, <http://www.bmbb.tc/dergi.html>; [www.tbv.org.tr/tbv/documents/hakemliidergi/dergi-kurullar.pdf](http://www.tbv.org.tr/tbv/documents/hakemliidergi/dergi-kurullar.pdf). SSN 1 305-8991: 2003-2005
- **Editorial Board membership:**
  - Guest/Managing Guest Editor: Computers and Electrical Engineering journal (Elsevier, CAEE). ISSN: 0045-7906.
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  - Editorial Board member: *International Journal on Advances in Software*, <http://www.iaiajournals.org/software/>: since 2012 January. ISSN: 1942-2628.
  - Editorial Board member: *International Journal of Information Security Science* (IJISS), [www.ijiss.org](http://www.ijiss.org): since 2012 January. ISSN: 2147-0030. OJS: <http://pkp.sfu.ca/ojs/>
  - Editorial Board member: *International Journal of Advanced Robotic Systems* (EiCs: Vedran Kordic, Aleksandar Lazinica, Munir Merdan), InTech, ISSN: 1729-8806. 2012-3. SCI-E.
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## Refereed journals:

- The Journal of Supercomputing (Springernature).
- Wiley [Security and Communication Networks](#) journal (editing a Special Issue on The Design and Engineering of Cryptographic Solutions for Secure Information Systems), and reviewer (6 papers)
- Networking Science (by Springer-Verlag). 1 paper
- [Journal of Systems and Software](#) (Ed. Dave Card). 1 paper.
- [IEEE Transactions on Services Computing](#) (EiC, Dr. Liang-Jie Zhang). SCI-E. 2 papers.
- [IEEE Systems, Man and Cybernetics, Part A](#): IEEE Transactions on Systems, Man, and Cybernetics Part A: Systems and Humans was renamed [IEEE Transactions on SMCA- Systems, Man, and Cybernetics: Systems](#) on January 1, 2013. SCI. 7 papers.
- Wiley [Software Practice and Experience](#); [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1097-024X](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-024X). (PLAC SI, Editor M. Fayad). SCI. 2 papers.
- [The Computer Journal](#) (EiC, Erol Gelenbe). SCI-E. 2 papers.
- [International Journal of Web Services Research \(JWSR\)](#) (EiC: Liang-Jie Zhang). SCI-E. 1 paper.
- [Journal of Digital Information](#) (EiC: John Leggett). ISSN: 1368-7506. AHCI? 2 papers

- [International Journal of Intelligent Engineering and Systems](#) (EiC: Hongbing Zhu). SCOPUS. 1 paper.
- [Expert Systems: The Journal of Knowledge Engineering](#) (EiC: L. Rapanotti / J. Hall). 2 papers.
- [MultiMedia Tools and Applications](#) (EiC: Borko Furht). SCI-E. 42 papers.
- [The International Journal of Cyber-Security and Digital Forensics](#) (IJCSDF) (EiC: Ali Dehghan Tanha). Since May 2015.
- [International Journal of Information Technology and Web Engineering](#) (IJITWE) (EiC: Ghazi I. Alkhatib). Since October 2015. 2 papers (Editorial Board Member, since March 2016)
- [Uluslararası Bilgi Güvenliği Mühendisliği Dergisi](#) (In Turkish. Intl Journal of Info Security) (UBGMD)(EiC: Şeref Sağroğlu). November 2015
- [International Journal On Advances in Software](#) ( ) (EiC: Luigi Lavazza) Since May 2015) 9 papers.
- [Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi](#) (SCI\_E) Since October 2016. 2 paper.

#### **Scientific jury memberships (mostly for Higher Education Board):**

- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 1 aday için eser inceleme. Nisan 2016 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 1 aday için eser inceleme. Ekim 2015 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 1 aday için eser inceleme. Nisan 2015 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 2 aday için eser inceleme. Ekim 2014 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 3 aday için eser inceleme. Nisan 2014 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 3 aday için eser inceleme. Ekim 2013 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 2 aday için sözlü jürisi asıl üye. Ekim 2013 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Eğitim Bilimleri- Alan Eğitimi Alanında 2 aday için asıl üye. Nisan 2013 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 3 aday için asıl üye. Ekim 2012 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Bilgisayar Mühendisliği - Bilişim Alanında 3 aday için asıl üye. Nisan 2012 dönemi.
- Üniversitelerarası Kurul Doçentlik jürisi: Eğitim Bilimleri Alanında 3 aday için yedek üye. Ekim 2011 dönemi.
- Serhat Özyar Yılın Genç Bilim İnsanı Ödülü jürisi hakemi. Orta Doğu Öğretim Elemanları Derneği, ODTÜ. Şubat-Mart 2012.
- ...
- And many others.

#### **Conference referee assignments:**

(Too many to recount here)

## **7. RESEARCH ACTIVITIES**

- CoDe\_FMI: Collaborative Development of a Framework for Faculty Metacognitive Skills in Post-COVID19. TÜBİTAK-NARD Ortak Araştırma Önerisi. Elena Railean, Ömer Solak, Atilla Elçi (principal investigator), Proposed, 30 May 2021 and 4 Nov 2021.

- Sinir Ağları Teknolojileri Tabanlı Kriptografi Protokollerinin Açıklarının Otomatik Düzeltilmesi Kullanılarak Katmanlar Arası Güvenliği Yönetilebilir Bir Nesnelerin İnterneti Ağının Geliştirilmesi (2020). RFBR-TÜBİTAK Ortak Araştırma Önerisi. Sıddıka Berna Örs Yalçın, Atilla Elçi. Rejected.
- New challenges for education as an instrument of social cohesion in european context. EU COST Project Proposal. Elena Railen (leading). Consultant: Atilla Elçi.
- An Intelligent Tracking System: application to Acute Respiratory Tract Infection (TrackARTI, 2019). Ortak Araştırma projesi TÜBİTAK ve MHESR (The Tunisian Ministry of Higher Education & Scientific Research). Rejected.
- Anlamsal Web teknolojisi ile “Fetal Kalp Hızı Monitörizasyon Sistemi (FKHMS) ve Mobile Entegre Doppler Cihazı (m-Doppler) Projesi” – Ekim 2014, İstanbul Aydın Üniversitesi ve Acıbadem Sağlık Grubu işbirliği ile SAN-TEZ Bilim, Sanayi ve Teknoloji Bakanlığı desteğiyle 2016 yıl içerisinde proje tamamlanacaktır (Proje Destek Süresi: 01.01.2015-31.03.2016). Bütçe: 131.646,55 TL, Proje No: 0763.STZ.2014.
- “Ontoloji Yordamıyla Bilinçli Gıda Tüketimi için Yapay Zeka Tabanlı Mobil Sistem Oluşturulması”. TÜBİTAK 1501, Proje no:3140417, 01 Temmuz 2014-30 Eylül 2015 – Semantica İnternet ve Yazılım Hizmetleri Tic. Ltd. Şti., İstanbul Aydın Üniversitesi ve Acıbadem Sağlık Grubu. Bütçe: 526 000 TL.
- “Alerjik Bireylere Özgü Güvenli Gıda Tüketimine Yönelik Anlam Tabanlı Akıllı Bilgi Sistemi”– Proje No: 2120357, TÜBİTAK 1512 Girişimcilik Aşamalı Destek Programı, 100.000 TL Destek alınarak ARGE çalışmaları Semantica Tic.Ltd.Şti. tarafından 2013- 2014 tarihlerinde proje başarıyla tamamlanmıştır (Proje Destek Süresi: 01.07.2013-31.06.2014).
- TUBİTAK 2223: SIN’13 düzenleme desteği.
- TUBİTAK TEYDEB proje önerisi: Otizmlı Çocuklara Anlamsal tabanda Eğitsel Faaliyet Sunan Ajan tabanlı Sistem Tasarımı. İstanbul Aydın Üniv., Süleyman Demirel Üniv., Proline Bilişim A.Ş.
- SAN-TEZ Proje önerisi (2012): Semantic Search Agents. İstanbul Aydın Üniv., Süleyman Demirel Üniv., Huawei Turkey R&D Center. 150.000 TL. Başvuru yapıldı: 15 Mart 2012.
- İstanbul Kalkınma Ajansı Hibe Çağrısı proje önerisi (2012): Kişiyeye Yönelik Gıda Tüketim Projesi. İstanbul Aydın Üniv., Genç Gönüllüler Derneği, Süleyman Demirel Üniv. 300.000 TL. Başvuru yapıldı: 23 Mart 2012.
- FP7-ICT-2011-8 proje önerisi : Meta-Era: Towards Metasystems Thinking in Learning Mathematics and Science. 11 uluslararası katılımcı kuruluş; toplam bütçe: 3 383 876 €; 17 Ocak 2012. (Başarısız)
- TUBİTAK-Rusya RFBR İkili İlişkiler (2532) proje önerisi: Örgütsel Ortamlar için Çok-Düzeyleli Güvenlik-Tabanlı Toplumsal Ağ Platformu Geliştirilmesi (Development of a multi-level security-based social networking platform for organizational environments). Toplam bütçe: Türkiye tarafı 52310 €. 9 Eylül 2011. (Başarısız)
- Provision of Semantic Web Services through an Intelligent Semantic Web Service Finder. EMU-Supported ‘A’ Type Project (BAP-A-07-20) together with Duygu Çelik. Budget: \$6,200; started on February 2008, for 10 months. Extended 6 months.
- Support of SIN 2007 Conference. MEKB-07-05 TC/KKTC scientific Research Project. Supported by TRNC MEvKB, for YTL5000. April – December 2007.
- Cooperative Labyrinth Discovery (CLD) Project (“Üniversiteliler arası robotçuluk yarışması ve işliğı”). Project (MEKB-05-01 TC/KKTC) with the support of “the Fund for Enhancing Scientific Activity in Higher Education by the Ministry for National Education and Culture, TRNC: 7 months, budget of 8,500 YTL, started Oct. 2005; ended 30 December 2006.

- International Telecommunication Union (ITU, Geneva, Switzerland) Chief Technical Adviser. UNDP/ITU Pakistan Telecom Company Ltd. HQ, 1993 - 1997.
- ITU Chief Technical Adviser. UNDP/ITU Asia-Pacific Regional Project RAS/86/165 in the Ministry of Telecommunication, People's Republic of China, at Beijing University of Posts and Telecommunication, Beijing. 1990 -1993.
- ITU Senior Officer in Computer Applications. Ministry of Communications, Kuwait City, State of Kuwait.1989 - 1990.
- ITU Senior Expert. Zimbabwe, Indonesia, Trinidad, Turkey, Thailand, Pakistan, India, Sri Lanka, P.R. China, and Philippines for short to intermediate term durations during 1984 - 1989.

## 8. EDUCATION ACTIVITIES

See the note below the table for others.

| Academic Year                          | Semester                                   | Course Title                                         | Lectures/week |     | # of students |
|----------------------------------------|--------------------------------------------|------------------------------------------------------|---------------|-----|---------------|
|                                        |                                            |                                                      | Theory        | Lab |               |
| 2023-2024<br>Hasan Kalyoncu University | Spring                                     | SENG226 Software Design                              | 3             | 0   | 37            |
|                                        |                                            | SENG390 Capstone Project I                           | 0             | 8   | 25            |
|                                        |                                            | FE104 Social Cause Project                           | 0             | 2   | 100+          |
| 2023-2024<br>Hasan Kalyoncu University | Fall                                       | FE401 Multidisciplinary Integrated Project           | 0             | 8   | 24            |
|                                        |                                            | SENG281 Internet and Social Media (Analysis)         | 3             | 0   | 47            |
|                                        |                                            | INT100 Intro to University Life                      | 1             | 0   | 85            |
| 2022-2023<br>Hasan Kalyoncu University | Spring                                     | SENG226 Software Design                              | 3             | 0   | 21            |
| 2022-2023<br>Hasan Kalyoncu University | Fall                                       | SENG281 Internet and Social Media (Analysis)         | 3             | 0   | 3             |
| 2021-2022<br>Hasan Kalyoncu University | Fall                                       | SENG123 Intro to Software Engineering                | 3             |     | 29            |
|                                        | Spring                                     | SENG281 Internet and Social Media (Analysis)         | 3             |     | 3             |
| 2020-2021<br>Hasan Kalyoncu University | Spring                                     | SENG226 Software Design                              | 3             |     | 1             |
|                                        | Fall                                       | MAT114 Discrete Mathematics                          | 3             |     | 68            |
| 2020-2021<br>Hasan Kalyoncu University | Fall                                       | SENG123 Intro to Software Engineering                | 3             |     | 1             |
|                                        | Spring                                     | MAT114 Discrete Mathematics                          | 3             |     | 97            |
| 2016-2017<br>(Aksaray Univ.)           | Fall                                       | EEM 361 E-İmza ve Güvenlik (1. + 2. Öğr.)            | 3             |     | 79            |
|                                        |                                            | EEM 463 Bilgi Güvenliği ve Kriptoloji (1. & 2. Öğr.) | 3             |     | 12            |
|                                        |                                            | EEBMZ 507 Ağ ve Bilgi Güvenliğine Giriş              | 3             |     | 1             |
|                                        |                                            | EEBM 507 Intro Security of Computers & Networks      | 3             |     | 6             |
| Spring                                 | EEM 466 İnternet ve Sosyal Ağlar           | 3                                                    | -             | 8   |               |
|                                        | EEM 366 İnternet ve Sosyal Ağlar           | 2                                                    | -             | 5   |               |
| 2015-2016<br>(Aksaray Univ.)           | Fall                                       | EEMB 509 Intro to Cryptology                         | 3             | -   | 7             |
|                                        |                                            | EEBMZ 509 Kriptolojiye Giriş                         | 3             | -   | 1             |
|                                        |                                            | EEM 360 E-İmza ve Güvenlik (1. + 2. Öğr.)            | 3             | -   | 20            |
| Spring                                 | EEM 162 Yapısal Programlama (1. + 2. Öğr.) | 3                                                    | 2             | 135 |               |
| 2014-2015<br>(Aksaray Univ.)           | Fall                                       | EEMB 566 Semantic Web Technology and Appls           | 3             | -   | 3             |
|                                        |                                            | EEBMZ 566 Anlam Vebî Tekno. ve Uygulaması            | 3             | -   | 4             |
|                                        |                                            | EEM 267 Veri Yapıları (1. + 2. Öğr.)                 | 3             | -   | 60            |
|                                        | Spring                                     | EEBM 507 Intro to Security of Computers and N/Ws     | 3             | -   | 8             |
|                                        |                                            | EEBMZ 507 Ağ ve Bilgi Güvenliğine Giriş              | 3             | -   | 3             |
|                                        |                                            | EEBM 571 Intro to Multi-Agent Systems                | 3             | -   | 1             |
| 2013-2014<br>(Aksaray Univ.)           | Fall                                       | EEBMZ 571 Çoklu Etmen Sistemlerine Giriş             | 3             | -   | 1             |
|                                        |                                            | EEM 103 Bilişim Teknolojileri ve Uygulamaları        | 2             | -   | 37            |
|                                        |                                            | EEM 103 Bilişim Teknolojileri ve Uygulamaları (İÖ)   | 2             | -   | 41            |
|                                        |                                            | EEM 161 Algoritma ve Programlamaya Giriş             | 3             | 2   | 37            |
|                                        |                                            | EEM 161 Algoritma ve Programlamaya Giriş (İÖ)        | 3             | 2   | 41            |
| 2012-2013<br>(Aksaray Univ.)           | Fall                                       | ISLD 521 Yönetim Bilişim Sistemleri                  | 3             | -   | 3             |
|                                        | Spring                                     | ISLD 514 Yenilikçilik & Değişim Yönetimi (PhD)       | 3             | -   | 3             |
|                                        |                                            | YNT 514 Yenilik ve Teknoloji Yönetimi (YL)           | 3             | -   | 8             |
|                                        |                                            | YNTZ 514 Yenilik ve Teknoloji Yönetimi (YL)          | 3             | -   | 12            |
|                                        |                                            | ISLT 318 Yenilik ve Teknoloji Yönetimi               | 3             | -   | 12            |
|                                        |                                            | ISLT 318 Yenilik ve Teknoloji Yönetimi (İÖ)          | 3             | -   | 42            |
| 2011-2012<br>(Süleyman Demirel Univ.)  | Fall                                       | BIL 456 Multi-Agent Systems (ERASMUS)                | 3             | -   | 3             |
|                                        | Spring                                     | EBE 511 Anlam Vebî Teknolojisi ve Uygulaması (PhD)   | 3             | -   | 9             |
| Spring                                 | EBE xxx Web Servisleri Geliştirilmesi (YL) | 3                                                    | -             | 7   |               |

|                            |        |                                                                            |        |        |          |
|----------------------------|--------|----------------------------------------------------------------------------|--------|--------|----------|
|                            |        | EBE xxx Çoklu Etmen Sistemlerine Giriş (PhD)                               | 3      | -      | 9        |
| 2010-2011<br>(Toros Univ.) | Fall   | IT 501 IT Competency Workshop (YL)                                         | 3      | -      | 7        |
|                            | Spring | IT 501 IT Competency Workshop (YL)<br>IT 504 Internet & Web Programm. (YL) | 3<br>3 | -<br>- | 18<br>38 |
| 2009-2010<br>(METU NCC)    | Spring | CNG 336 Intr. Embedded System Development                                  | 3      | 2      | 28       |
|                            |        | CNG 444 Language Processors                                                | 3      | 2      | 7        |
| 2008-2009<br>(EMU TRNC)    | Fall   | CmpE 583 Web Semantics: Theory & Practice                                  | 3      | -      | 15       |
|                            |        | CmpE 218 Principles of Programming Languages                               | 4      | 2      | 30       |
|                            | Spring | CmpE 218 Principles of Programming Languages                               | 4      | 2      | 35       |
|                            |        | CmpE 103: Fundamentals of Programming:                                     | 3      | 2      | 40       |
| 2007-2008                  | Fall   | CmpE 583: Web Semantics: Theory & Practice                                 | 3      | -      | 13       |
|                            |        | CmpE 101 Foundations of Computer Engineering                               | 3      | 2      | 40       |
|                            |        | CmpE 401 (Graduation) Project                                              | -      | -      | 3        |
|                            | Spring | CmpE 218 Principles of Programming Languages                               | 4      | 2      | 35       |
|                            |        | CmpE 588: Engineering Semantic Web Information Systems                     | 3      | -      | 15       |

**The list of courses offered between 1976-2007 at various universities (METU, Haliç, Başkent, and Eastern Mediterranean universities) during 1976 – 2007 are not available.**

## 9. AWARDS

- Best Paper Award: DSIC 2018: 32nd International Symposium on Distributed Computing. Advances in Intelligent Systems and Computing.
- Atilla Elçi & Behnam Rahnema (2009): Special Prize for Technical Merit for "Cooperative Labyrinth Discovery- Client Robots Project". In the competition during 2nd Intl. Joint Robotics Competition and Symposium (IJRCS 2009), 20-23 May 2009, Süleyman Demirel University, Isparta, Turkey.
- Atilla Elçi, Behnam Rahnema, Mohamad N. Sabet Jahromi, and Reza Abrishambaf (2009): the Fourth Place for our Project on Self-Corrective Compass Cascaded Control System for AGVs. In the Project Competition, GMTGB Teknopark, 24 October 2008
- "First Place" in the General Category for The CLD Robot developed by my Cooperative Labyrinth Discovery Project by 4th METU Robotics Days Competition, METU, Ankara, Turkey. 2007.
- "A Special Prize for Technical Merit" for CLD Robot in the Robot Companion Design Contest. by 15th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 06), University of Hertfordshire, Hatfield, UK. 2006.
- Full fellowship for MSc & PhD study in the USA, by Ministry of National Education, Turkey. 1972-1975.
- Full fellowship for college study by President J. F. Kennedy Memorial Fund, Middle East Technical University, 1964 - 1970.
- Full fellowship for middle & high schooling, Ministry of Education, Republic of Turkey. 1959 – 1964.

## 10. OTHER ACADEMIC ACTIVITIES

### Graduate Thesis Advised:

#### M.Sc. Thesis Conducted:

- AI-RAWY, Mahmoud: Digital Voting System Based On Blockchain Technology. Electrical-Electronics and Computer Engineering, Aksaray University, December 2018.
- AYOUBI, Afrah: Modification of Image Denoising Algorithm with Wavelet Transformation. Electrical-Electronics and Computer Engineering, Aksaray University, June 2017.
- BALOUCHIAN, Pooyan: Semantic Data Portability across Social Networks. Computer Engineering Dept., Eastern Mediterranean University, September 2009.

- MEHRULHASSANI, Moein: Developing Ontology-Based Applications of Semantic Web Using UML to OWL Conversion. Computer Engineering Dept., Eastern Mediterranean University, July 2008.
- BAHREINI, Kiavash: Semantic Web mining using Agents in Enterprise Architecture, Computer Engineering Dept., Eastern Mediterranean University, June 2008.
- TEKOL, Yüce: Site Insight: Sharing Web Users' History. Computer Engineering Dept., Eastern Mediterranean University, June 2007.
- KAZI, M. Adil Amin: Enterprise Resource Planning System Implementation as PTCL's Competitive Edge in Telecom Services Business Industry in Pakistan, MBA Programme at Commonwealth Of Learning, Allama Iqbal Open University, Islamabad, Pakistan. March 2007.
- OLGU, Gizem: Integrating Disparate Ontologies through Semantically Parsing Multiword Elements. Computer Engineering Dept., Eastern Mediterranean University, February 2006.
- GAYDE, Erhan: TRNC Tourism Information System using Semantic Web Technologies. Computer Engineering Dept., Eastern Mediterranean University, September 2006.
- ÇELİK, Duygu: Searching for Semantic Web Services: An Intelligent Approach using Semantic Enhancement of Client Input Terms and Matchmaker Algorithm, Computer Engineering Dept., Eastern Mediterranean University, September 2005.
- İBİŞ (ARİFOĞLU), Ali: Genel Amaçlı bir Simge Cetveli Paketi, ODTÜ, 1982.
- ÖZGEÇEN, Ethem, Birleştirici Dilinde Yapısal Programlama için bir Makro Yordamlığı, ODTÜ, 1982.
- ÖZGİT, Atilla, Ada Programlama Destek Ortamı için bir Giriş / Çıkış Yazılım Paketi, ODTÜ, 1982.
- SAGAY, Zeki, Bir Özdevimli Özet Çıkarma Yöntemi, ODTÜ, 1981.
- KARA, Yıldırım, Bordro Programlama Dili, ODTÜ, 1981.
- ZAMBAKOĞLU, Ali, Kentiçi Trafiği Benzetim Paketi, ODTÜ, 1981.
- SARIKAYA, Behçet, FORTRAN Ödev Programlarının Benzerliği, ODTÜ, 1978.

#### **M.Sc. Graduation Projects Conducted:**

- KOYUNCU, Erol, Vardiyalı Çalışma Sistemi ve Tükenmişlik Üzerine Etkisi. Aksaray Üniversitesi, Sosyal Bilimler Enstitüsü, İşletme ABD, Yönetim ve Organizasyon BD. Aralık 2013.
- AKKAŞ, Mehmet, Girişimcilik: Markalaşmalı mı, Markalaşmamalı mı? Yönetim Açısından Markalaşma ve Girişimcilik İlişkileri. Aksaray Üniversitesi, Sosyal Bilimler Enstitüsü, İşletme ABD, Yönetim ve Organizasyon BD. Ocak 2014.

#### **Ph. D Thesis Conducted:**

- ÇELİK, Duygu: Towards a Semantic based Workflow Model for Composition of OWL-S based Atomic Processes. Computer Engineering Dept., Eastern Mediterranean University, September 2010.
- RAHNAMA, Behnam: Extended Open World Assumption as Core for Reasoning in Collaborative Problem Solving on Multiple Autonomous Semantic Robots. Computer Engineering Dept., Eastern Mediterranean University, December 2009.
- ZAFAR, Irfan: Evolution of Internet in Pakistan and its Role in the Country's Development, Preston Institute of Management, Science & Technology, Karachi, Pakistan. January 2003.

#### **Invited Talks:**

- Elçi, Atilla (2023). Eğitimde Büyük Veri & Yapay Zeka - Bir Alan Taraması. YÖMEGA Talks, Nov. 6th, 2023.
- Elçi, Atilla (2023). Eğitimde Büyük Veri & Yapay Zeka - Bir Alan Taraması. ODTÜ EM 68-72 Mezunları, Nov. 1st, 2023.
- Elçi, Atilla (2023). Big Data & AI for Education - A Survey of the Field. ICESSE'23, Güzelyurt, TRNC. April 17-19.
- Elçi, Alev and Elçi, Atilla (May 2020). Faculty Development in the Post 2020 World, talk at the International on-line Seminar on Distant Education Under Covid19 Pandemic Conditions: The e-Learning 2020 Conference, May 18, 2020 / Moscow, Russia.



- Elçi, Atilla (2018): Unavoidable Rise of Blockchain – Yet, How Far? Proc. the Eleventh International Conference on Security of Information and Networks (SIN 2018), Cardiff, UK, 10-12 September. ACM ICPS ISBN: 978-1-4503-6608-3.
- Elçi, Atilla (2017): [Tıp Bilişiminde Sorunlar ve Yenilikler Panel Sunuşu \(Issues and Innovation in Medical Informatics Panel Presentation\)](#).  
**DOI: 10.13140/RG.2.2.25553.53602**
- Elçi, A. (2016): (Panel Talk) Big Data & Analytics: What is Ahead? Panel, WEDA Symposium @ 40th COMPSAC, June 14th, 2016, Atlanta, GA, USA.  
[https://www.researchgate.net/publication/304076087\\_Big\\_Data\\_and\\_Analytics-What\\_is\\_Ahead](https://www.researchgate.net/publication/304076087_Big_Data_and_Analytics-What_is_Ahead)
- Elçi, A. (2015): (Plenary Talk Paper) Generating a Standardized Upper Ontology for Security of Information and Networks. Second International Conference on Computational Intelligence, Cyber Security and Computational Models 2015 (ICC3 2015). 17-19 December 2015, Coimbatore, India. (in print)
- Elçi, A., Tolun, M.R., Akgün, Ö., Sarı, F., ve Uzun, Y. (2014): Elektrik, Elektronik ve Bilgisayar Alanlarında Üniversite-Sanayi Etkileşimi İçin Öneriler - Aksaray Bağlamı. UNIKOP'14, 2. Bölgesel Kalkınma Sempozyumu, 24 October 2014, Niğde University. (in print)
- Elçi, A. (2014): Ontology for Security of Information and Networks: A standard is needed. In ACSAT 2014, 29 December 2014, Amman, Jordan. <http://www.dsr-conferences.com/acsat/index.php/keynote-speakers>
- Elçi, A. (2014): Isn't the Time Ripe for a Standard Ontology on Security of Information and Networks? In SIN 2014, 11 September 2014, Glasgow, UK.
- Elçi, Atilla: MAS & SemTech: Tipping to the Latter - Comparative Innovations Scene. The International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAECE2013) Mevlana University, Konya, Turkey, May 9-11, 2013.  
<http://sdiwc.net/conferences/2013/taeece2013/>  
<http://sdiwc.net/conferences/2013/taeece2013/wp-content/uploads/2013/05/Tentative-Schedule.doc>
- Elçi, A. & Rahnema, B.: Towards Reasoning using Auto-Epistemic Operators. 4. Engineering and Technology Symposium (MTS4 2011), Çankaya Üniversitesi, Ankara, Turkey, April 28-29, 2011. Pp: 383-391. (Çağrılı Konuşma ve Bildiri)
- Elçi, A., Rahnema, B., Bakhshi, B., and Sadeghi, H. M. (2011): A Secure Scheme for Friend or Foe Identification in Battle Scene. The Third International Conference on Wireless & Mobile Networks (WiMo-2011), June 26 ~ 28, 2011, by [www.airccse.org](http://airccse.org), Ankara, Turkey. Not in the proceedings <http://airccse.org/wimo2011/wimo2011.html>. (Invited talk: [http://airccse.org/wimo2011/schedule\\_wimo2011.html](http://airccse.org/wimo2011/schedule_wimo2011.html) Session 3).

### Organizing Congresses:

Pervasive Computing and the Networked World (genel başkan), October 26-28, 2012 . Istanbul, Turkey. (<http://www.icpca.bcu.ac.uk/organisation.html>)

International Joint Robotics Competition and Symposium Series (genel başkan):  
2nd IJRCS 2009, 20-23 May 2009, Süleyman Demirel University, Isparta, Turkey.  
1st IJRC 2008, 15-17 May 2008, Gazimagusa, TRNC, North Cyprus.

The IEEE International Workshop on Engineering Semantic Agent Systems series in conjunction with COMPSAC Annual International Computer Software & Applications Conferences (General Chair and proceedings editor):

[ESAS 2024](#), 2-4 July, 2024, Osaka.

[ESAS 2023](#), 27-29 June, 2023, Torino.

[ESAS 2022](#), 27 June-1 July, 2022, Virtual.  
[ESAS 2022](#), 27 June-1 July, 2022, Virtual.  
[ESAS 2021](#), 12-16 July, 2021, Virtual.  
[ESAS 2020](#), 13-17 July, 2020, Virtual.  
[ESAS 2019](#), 15-19 July 2019, Milwaukee, USA.  
[ESAS 2018](#), 23-27 July 2018, Tokyo, Japan.  
[ESAS 2017](#), 4 July, 2017, Turin, Italy.  
[ESAS 2016](#), 10 June 2016, Atlanta, Georgia, USA.  
[ESAS 2015](#), 1 July 2015, Taichung, Taiwan.  
[ESAS 2014](#) during 21-25 July 2014, Vasteras, Sweden.  
[ESAS 2013](#) during 22-26 July 2013, Kyoto, Japan.  
[ESAS 2012](#) during 16-20 July 2012, İzmir, Turkey (honorary chair).  
[ESAS 2011](#) during 18-22 July 2011, Munich, Germany.  
[ESAS 2010](#) during 19-23 July 2010, Seoul, South Korea.  
ESAS 2009 during 20 July 2009, Seattle, Washington, USA.  
ESAS 2008 during 28 July – 1 August 2008, Turku, Finland.  
ESAS 2007 during 24-27 July 2007, Beijing, China.  
ESAS 2006 during 17-21 September 2006, Chicago, Illinois, USA

International Conference on Security of Information and Networks conference series (In Tech Coop w/ACM SIGSAC) (General Chair and proceedings editor):

[SIN 2024](#), ?? November, 2024, Sydney, Australia (hybrid)  
[SIN 2023](#), 20-21 November, 2023, Jaipur, Rajasthan, India (hybrid)  
[SIN 2022](#), 11-13 November, 2022, Sousse, Tunisia (hybrid).  
[SIN 2021](#), 15-17 December, 2021, Virtual.  
[SIN 2020](#), 4-7 October, 2020, Istanbul, Turkey (Online).  
[SIN 2019](#), 12-15 September, 2019, Sochi, Russia.  
[SIN 2018](#), 10-12 September, 2018, Cardiff, Wales, UK.  
[SIN 2017](#), 13-15 October, 2017, Jaipur, Rajasthan, India.  
[SIN 2016](#), 20-22 July 2016, Newark, New Jersey, USA.  
[SIN 2015](#), 8-10 September 2015, Sochi, Russia.  
[SIN 2014](#), 9-11 September 2014, Glasgow, UK  
[SIN 2013](#), 26-28 November 2013, Aksaray, Türkiye.  
[SIN 2012](#), 22-26 October 2012, Jaipur, India.  
[SIN 2011](#), 14-18 November 2011, Sydney, Australia.  
[SIN 2010](#), 7-11 September 2010, Taganrog, Rostov-on-Don, Russia.  
[SIN 2009](#), 6-10 October 2009, Gazimagusa, North Cyprus.  
[SIN 2007](#), 8-10 May 2007, Gazimagusa, North Cyprus.

IEEE COMPSAC Annual International Computer Software & Applications Conferences (Steering Committee member):

49<sup>th</sup> COMPSAC, 2-4 July, 2024, Osaka. (Advisory Committee member)  
48<sup>th</sup> COMPSAC, 27-29 June, 2023, Torino. (Advisory Committee member)  
47<sup>th</sup> COMPSAC, 27 Jun -1 July, 2022, Virtual. (Advisory Committee member)  
46<sup>th</sup> COMPSAC, 27 Jun -1 July, 2022, Virtual. (Advisory Committee member)  
45<sup>th</sup> COMPSAC, 12-16 July, 2021, Virtual. (Standing Committee member)  
44<sup>th</sup> COMPSAC, 13-17 July, 2020, Virtual. (Standing Committee member)  
43<sup>rd</sup> COMPSAC, 15-19 July 2019, Milwaukee, WI, USA. (Standing Committee member)  
42<sup>nd</sup> COMPSAC, 23-27 July 2018, Tokyo, Japan. (Standing Committee member)  
41<sup>st</sup> COMPSAC, 4-8 July, 2017, Turin, Italy. (Standing Committee member)  
40<sup>th</sup> COMPSAC, 10-14 June 2016, Atlanta, Georgia, USA. (Standing Committee member)  
39<sup>th</sup> COMPSAC, 1-5 July 2015, Taichung, Taiwan. (Standing Committee member)  
36<sup>th</sup> COMPSAC, 16-20 July 2012, İzmir, Türkiye (aynı zamanda Program Committee Chair).  
35<sup>th</sup> COMPSAC during 18-22 July 2011, Munich, Germany (Semantic Web Track Chair).  
34<sup>th</sup> COMPSAC during 19-23 July 2010, Seoul, South Korea (SW Arch & Evolution Track Chair).  
33<sup>rd</sup> COMPSAC during 20 July 2009, Seattle, Washington, USA. (SW Arch & Evolution Track Chair)  
32<sup>nd</sup> COMPSAC during 28 July – 1 August 2008, Turku, Finland. (SW Arch & Evolution Track Chair; Workshops Chair)  
31<sup>st</sup> COMPSAC during 24-27 July 2007, Beijing, China. (Workshops Chair)

### Membership in Scientific and Professional Organizations:

- Association for Computing Machinery, ABD.
- IEEE, Computer Society, Communications Society, ve Robotics Society, ABD
- Member: IEEE SMC Society's Distributed Intelligent Systems Technical Committee ([DIS TC](#)).
- Informatics Association of Turkey
- Linux Users Association
- Operations Research Association of Turkey

### Research Interests:

- Artificial intelligence
- Information security/assurance
- Semantic AI robotics
- Programming systems and languages
- Semantics in education and technology
- Semantic web technology

<http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/e/EI=ccedil=i:Atilla.html>

<http://aksaray.academia.edu/AtillaEI%C3%A7i>

<http://lnkd.in/i4RAxn>

<https://dl.acm.org/profile/81371591207>

<https://www.researchgate.net/profile/Atilla-Elci>

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