

Work experience

<p>Atatürk University, Engineering Faculty, Department of Civil Engineering</p> <p>Prof. Dr. 2017- Assoc. Prof. Dr. 2012-2017 Asist. Prof. Dr. 2004-2012 Research Assistant 1996-2004</p> <p>Gazi University, Ankara, TURKEY 1998-2000</p> <p>With Prof. Dr. Abdussamet ARSLAN (Ph.D. Supervisor)</p> <ul style="list-style-type: none"> . Time dependent behavior of cement based materials . Computational and numerical modeling . New brands of concrete technology . Mathematical modeling . Impact loading effect on conventional and fiber reinforced concrete . Dynamic behavior of concrete and reinforced concrete structures . Earthquake mechanics of faults . Structural dynamics . Genetic algorithm, neural networks and fuzzy logic . Lattice modeling . Torsional analysis of structures . Reactive powder concrete technology . Retrofitting and rehabilitation of existing structures (buildings etc.) <p>With Prof. Dr. Siddik ŞENER</p> <ul style="list-style-type: none"> . Fracture mechanics and size effect . Stability of structures <p>With Assistant Prof. Dr. Meral BEĞİMGİL</p> <ul style="list-style-type: none"> . Arc bridges design and analysis . Reinforced concrete bridge design and analysis . Analysis of steel structures <p>Ataturk University, Erzurum, TURKEY</p> <p>With Prof. Dr. Rüstem GÜL (Ph.D. Supervisor)</p> <ul style="list-style-type: none"> . Pre-stressed concrete technology . Analysis of reinforced concrete structures . Computational modeling . Structural design and analysis . Concrete additives . Light/heavy weight concrete . Natural/artificial aggregates for concrete/mortar . High strength high performance concrete <p>Berlin Technical University, Berlin, GERMANY</p> <p>With Univ. Prof. Dr. Ing. Bernd HILLEMEIER 1998</p> <ul style="list-style-type: none"> . Non-destructive testing methods . Pre-stressed concrete . Acid-sulphate resistant concrete/mortar . Brick work in sewage water collectors . Polymeric surface protection . Fracture and damage mechanics . Post reinforcement with glued CFRP-laminates . Computational modeling . Numerical and mathematical modeling of concrete <p>BIL Company, İstanbul, TURKEY</p> <p>Department of Computer and Engineering Sciences 1995-6</p> <p>Fen Engineering and Computing Company, Trabzon, TURKEY 1993-5</p>	<p>2017- 2012-2017 2004-2012 1996-2004</p> <p>1998-2000</p>
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Mother tongue(s)

Turkish

Other language(s)

English, German

Self-assessment

European level (*)

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
√	C	√	C	√	C	√	C	√	C
√	A	√	A	√	A	√	A	√	A

Publications

A. International Journal Papers :

- A1. Aydın, A.C., Özkaya, S.G, The finite element analysis of collapse loads of single-spanned historic masonry arch bridges (Ordu, Sarpdere Bridge), Engineering Failure Analysis, February 2018, Doi:10.1016/j.engfailanal.2017.11.002
- A2. Maali, M., Kılıç, M., Sagirolu, M., Aydın, A.C., Experimental model for predicting the Semi-rigid Connections' Behaviour with Angles and Stiffeners, Advances in Structural Engineering, 2017, Vol 20, Issue 6, pp. 884 – 895.
- A3. Maali, M., Kılıç, M., Aydın, A.C., Experimental model of the behaviour of bolted Angles connections with stiffeners, International Journal of Steel Structures, 16(3), 2016, pp.719-733.
- A4. Kurt M, Kotan, T., Gül, M.S., Gül, R., Aydın, A.C., The Effect of Blast Furnace Slag to Self-Compactability of Pumice Aggregate Lightweight Concrete, SADHANA Academy Proceedings in Engineering Sciences, 41(2), February 2016, pp.253-264.
- A5. Kurt M, Gül, M.S., Gül, R., Aydın, A.C., Kotan, T., The effect of pumice powder on the self-compactability of pumice aggregate lightweight concrete, , Construction and Building Materials, Vol.103, 30 January 2016, pp. 36-46.
- A6. Aydın, A.C., Maali, M. , Kılıç, M., and Sagirolu, M., Experimental Investigation Of Sinus Beams With End-Plate Connections, Thin-Walled Structures, Vol:97, December 2015, pp.35-43.
- A7. Aydın, A.C., Kılıç, M., Maali, M. and Sagirolu, M., "Experimental Assessment of the Semi-rigid Connections Behavior with Angles and Stiffeners", Journal of Constructional Steel Research, 114, 2015, pp.338-348.
- A8. Sagirolu, M., Aydın, A.C., Design and analysis of non-linear space frames with semi-rigid connections, Steel and Composite Structures, Int. J., Vol. 18, No. 6, June 2015, pp.1405-1421.
- A9. Maali, M, Aydın, A.C. Sagirolu, M., Investigation of innovative steel runway beam in industrial building, SADHANA Academy Proceedings in Engineering Sciences, October 2015, pp. 2239-2251.
- A10. Aydın, A.C., Oz, A., Polat, R., Mindivan, H., Effects of the Different Atmospheric Steam Curing Processes on the Properties of Self-Compacting-Concrete Containing Microsilica SADHANA Academy Proceedings in Engineering Sciences, Vol. 40, Part 4, June 2015, pp. 1361-1371.
- A11. Kurt M, Aydın, A.C., Gül, M.S., Gül, R., Kotan, T., The Effect Of Fly Ash To Self-Compactibility Of Pumice Aggregate Lightweight Concrete, SADHANA Academy Proceedings in Engineering Sciences, Vol. 40, Part 4, June 2015, pp. 1343-1359.
- A12. Türkmen İ., Öz A., and Aydın, A.C., Characteristics Of Workability, Strength, And Ultrasonic Pulse Velocity Of SCC Containing Zeolite And Slag, Scientific Research and Essays Vol. 5(15), pp. 2055-2064, 4 August, 2010.
- A13. Gül R., Yavuz M., and Aydın, A.C., Predicting The Chloride Content From The Color Analysis For Various Cement-Based Materials, Scientific Research and Essays Vol. 5(15), pp. 2004-2015, 4 August, 2010.
- A14. Aydın, A.C., Karakoç, M.B., Düzgün, O.A., and Bayraktutan, M.S., Effect of low quality aggregates on the mechanical properties of lightweight concrete, Scientific Research and Essays Vol. 5 (10), pp. 1133-1140, 18 May, 2010.
- A15. Hasar, U.C., Simsek, O., Aydın, A.C., Application Of Varying-Frequency Amplitude-Only Technique For Electrical Characterization Of Hardened Cement-Based Materials, Microwave And Optical Technology Letters / Vol. 52, No. 4, April 2010, pp.801-805.
- A16. Hasar, U.C., Akkaya, G., Aktan, M., Gozu, C., Aydın, A.C., Water-To-Cement Ratio Prediction Using ANNs From Non-Destructive And Contactless Microwave Measurements, Progress In Electromagnetics Research, PIER 94,2009, pp. 311-325.
- A17. Aydın, A.C., Tortum, A., Yavuz, M., [Prediction of concrete elastic modulus using adaptive neuro-fuzzy inference system - Rejoinder](#), Civil Engineering and Environmental Systems,6, 157-158 (2009)
- A18. Aydın A.C., Düzgün, O.A., Tortum, A., Determination of the Optimum Conditions for Steel Fibers on the Mechanical Properties of Natural Lightweight Aggregate Concrete, Pollack Perodika, 2008, Vol.3, No.1, pp.101-112. (SCI değil)
- A19. Aydın, A.C., [Prediction of concrete elastic modulus using adaptive neuro-fuzzy inference system - Rejoinder](#), Civil Engineering and Environmental Systems,24, 301-302 (2007)
- A20. Gül, R., Okuyucu E., Türkmen İ., and Aydın, A.C., Thermo-mechanical properties of fiber reinforced raw perlite concrete, Materials Letters, 61/29, 5145-5149 (2007)
- A21. Aydın, A.C., Arslan, A., and Gül, R., Mesoscale Simulation of Cement Based Materials' Time Dependent Behavior , Computational Materials Science, 41/1, 20-26 (2007).
- A22. Aydın, A.C., Self Compactability of High Volume Hybrid Fiber Reinforced Concrete, Construction and Building Materials, 21, 1146-1151, (2007).
- A23. Aydın, A.C., and Gül, R., Influence of Volcanic Originated Natural Materials as Additives on the Setting Time and Some Mechanical Properties of Concrete, Construction and Building Materials,21, 1274-1278, (2007).
- A24. Aydın A.C., Tortum, A., Yavuz, M., Prediction of concrete elastic modulus using adaptive neuro-fuzzy inference system, Civil Engineering and Environmental Systems, 23, 295-309, (2006).
- A25. Düzgün, OA, Gül, R., Aydın AC, Effect of steel fibers on the mechanical properties of natural lightweight aggregate concrete, Materials Letters, 59, 3357-3363, (2005).
- A26. Tortum,A., Celik, C., Aydın A.C., Determination of the Optimum Conditions for Tire Rubber In Asphalt Concrete, Building and Environment, 40, 1492-1504, (2005).
- A27. Oğuz, E., Aydın, A.C., Prediction Of Adsorption Velocity Of Phosphate Removal From Wastewater With Gas Concrete, Including Ph, Temperature, And Agitation Speed, Int. Journal of Environment and Pollution, 19, 603-614, (2003).

Additional information

B. International Congress :

- B1. Aydın, A.C., Maali, M., Kılıç, M. and **Sagiroglu, M.** Experimental Model of the Behavior of the Bolted Angles Connections with Stiffeners, "ICCCE 2016: 18th International Conference on Construction and Civil Engineering, 29-30 September 2016, London, United Kingdom". pp.2071-2075
- B2. Maali, M., Kılıç, M., **Sagiroglu, M.** and Aydın, A.C., Behavior of the Moment-Rotation Curves of Bolted T-Stub Connections, "41st IAHS World Congress-Sustainability and Innovation for the Future, 13-16 September 2016, Albufeira, Algarve, Portugal".
- B3. Aydın AC., Bayrak B., Theoretical And Experimental Behavior Of Reinforced Concrete Beams Under Torsion, Fourth International Conference On Advances in Civil, Structural and Mechanical Engineering - ACSM 2016, Bangkok, Thailand, 7-8 May 2016.
- B4. Aydın, A.C., Sagiroglu, M., Maali, M. and Kilic, M., Experimental Investigation of Moment-Rotation Curve of End-Plate Connection with Sinus Beam, "Steel Structure-2015 Conference, 16-18 November 2015, Dubai".
- B5. Aydın, A.C., Kılıç, M., Maali, M. and Sagiroglu, M., An Experimental Study on the Moment-Rotation of Bolted Beam-Column Connection, "Third International Conference on Advances in Civil, Structural and Environmental Engineering - ACSEE 2015, 10-11 October 2015, Zurich, Switzerland".
- B6. M. Sagiroglu, A.C. Aydın. Design and Analysis of Steel Space Frame with Semi-Rigid Beam-to-Column Connections Using Stiffness Method, 10th Pacific Structural Steel Conference (PSSC 2013), 8-11 Ekim 2013, Singapore.
- B7. Aydın, A.C., Restoration of Historical Structures: Material and Structural Point of View, The 1st International Conference on Sustainable Built Environment Infrastructures in Developing Countries, 12-14 Oct. 2009, Oran, Algeria, Vol.2, pp.325-336.
- B8. Gül, R., Yavuz, M., Aydın, A.C., Predicting the Chloride Content from the Color Analysis for Various Cement-Based Materials, The 1st International Conference on Sustainable Built Environment Infrastructures in Developing Countries, 12-14 Oct. 2009, Oran, Algeria, Vol.3, pp.149-156.
- B9. Sağsöz, A.E, Gül R., Aydın AC, The Effect of Curing Conditions on Some Mechanical Properties of Perlite Concrete, 4th Concrete Future-Recent Advances in Concrete Technology & Concrete in Structures, Proc. Of The Twin Coimbra Int. Conf. On Civil Eng.-Towards a Better Environment and The Concrete Future, 17-19 June 2009 Coimbra, Portugal, pp.263-268.
- B10. Aydın AC, Arslan A., Gül R., Numerical Simulation of Cement Based Materials' Time Dependent Behavior, 6th Int. Congress on Global Construction: Ultimate Concrete Opportunities, 303-312, Dundee, England, July 2005.
- B11. Arslan, A., Aydın, A.C., Betonda Rötme ve Sünme Modellerinin Gelişimi, 4. GAP Mühendislik Kongresi (Uluslar arası Katılımlı), Harran Üniversitesi, Şanlı Urfa, Cilt.2, s. 858-864, 06-08 Haziran 2002.
- B12. Aydın, A.C., Gül, R., "Diyatomitin Beton Priz Süresine Etkisi", Uluslar Arası İnşaat Mühendisliğinde Gelişmeler Sempozyumu, Gazimağusa, KKTC, Cilt.2, pp.543-556, 1-3 Kasım 2000.
- B13. Demirboğa, Kurt, M., R., Gül, R., Aydın, A.C., "Freeze-Thaw Resistance Of Light Weight Aggregate Concrete", Second Int. Symposium On Structural Lightweight Aggregate Concrete, Norway, pp.492-501, June 2000.
- B14. Ramazan Demirboğa, Murat Yavuz, Rüstem Gül, A. Cüneyt Aydın, "Effects Of Admixtures On Compressive Strength Of Lightweight Concrete", Cement and Concrete Technology in 2000s, Second International Symposium, İstanbul, Turkey, s.144-153, 6-10 September, 2000.
- B15. Arslan, A.; ve Aydın, A.C., Improvements in Lattice Modelling of Concrete Behaviour, Lefke European University, 10th Year Sempozyum of Faculty of Architecture and Engineering, KKTC, 155-164, 15-17 November 2000.

D. National Journal Papers (in Turkish) :

- D1. Aydın AC, Bayrak, B., Kendiliğinden Yerleşen ve Normal Betonlu Betonarme Kirişlerin Burulma Davranışının Deneysel ve Teorik Olarak İncelenmesi, Sinop Uni J Nat Sci 1(1): 23- 32 (2016)
- D2. Aydın AC, Kılıç M, Maali M, Sağiroğlu M, Alt ve Üst Korniyerli Yarı Rijit Birleşimlerde Kaynak Boyu Etkisi, Iğdır Üniversitesi, Fen Bilimleri Enstitüsü Dergisi, 5(4), 2015, s.41-55.
- D3. Okuyucu, D., Aydın, A.C., An Evaluation on Erzurum Double Minaret Madrasah by Structural Engineering Perspective, KSÜ Müh. Bil. Dergisi, 13(1), 2010, s. 28-44.
- D4. Amil, A.P., Aydın, A.C., Prefabrikte Yapıların Tasarım İlkeleri, Atatürk Üniversitesi, Ziraat Fakültesi Dergisi, 35, 235-240, (2004).
- D5. Amil, A.P., Aydın, A.C., Yüksek Yapılar, Trabzon İnşaat Müh. Odası Dergisi, 18, 12-15 , (2004).
- D6. Budak, A., Uysal, H., Aydın, A.C., Kırsal Yapıların Deprem Davranışı, Atatürk Üniversitesi, Ziraat Fakültesi Dergisi, 35, 209-219, 2004.
- D7. Arslan, A., Aydın, A.C., "Çelik Lifli Betonların Genel Özellikleri", Hazır Beton Dergisi, 6, 36, 67 -75, (1999).
- D8. Gül, R., Aydın, A.C., "Akışkanlaştırıcı (Normal Veya Süper) Katkı Maddelerinin Kullanılmasında Göz Önünde Bulundurulması Gereken Hususlar", Çimento Ve Beton Dünyası, 2, 14, 17-20, (1998).
- D9. Gül, R., Aydın, A.C., "Hızlandırıcı Katkı Maddelerinin Betona Uygulanmasında Dikkat Edilmesi Gereken Hususlar", Dsi Teknik Bülteni, 89, 15-22, (1997).

E. National Congress Papers (in Turkish) :

- E1. Aydın AC, Fayetorbay İ, Borlu Aktif Belit Çimentolu Isıl İşlem Görmüş ve Görmemiş Betonların Hidratasyon Özellikleri, 7. Ulusal Katı Atık Yönetimi Kongresi -UKAY'2015- 14-16 Ekim 2015, Gaziantep, s.425-433.
- E2. M. Sagiroglu, A.C. Aydın, 2013. Uzay Çelik Çerçevesinin Analiz ve Dizaynında Birleşim Elemanlarının Boyutlarının Birleşim Davranışına Etkisi, 5. Ulusal Çelik Yapılar Sempozyumu, 13-15 Kasım 2013, İstanbul.223-230
- E3. Sağiroğlu, M., Aydın,A.C., Yarı-Rijit Bağlantılı Üç Boyutlu Çelik Çerçevesinin Rijitlik Matrisi Metoduyla Çözümü, 4.Ulusal Çelik Yapılar Sempozyumu, 24-26 Ekim 2011, İstanbul, s.223-230.
- E4. Aydın, A.C., Sağsöz, A.E., Öz, A.,Güvenç, H, Ceyhun,N., Erdoğan, Ş.,Akışkanlaştırıcı Katkıların Değişik Çimentolarla Uyumu, Uluslar arası Katımlı Yapılarda Kimyasal Katkılar 3. Sempozyumu ve Sergisi, 2-3 Nisan 2009, s.201-214.
- E5. Aydın, A.C., Uzbaş, B., [Çimento Esaslı Malzemelerin Tek Eksenli Yük Altındaki Davranışının Mezo Düzey Modellenmesi](#), Beton 2008, 19-21 Haziran 2008, İstanbul, s.581-590.
- E6. Aydın, A.C., Tortum,A., Yavuz, M., Betondaki Klorür Miktarının Yapay Sinir Ağları Kullanılarak Modellenmesi, Bilimde Modern Yöntemler Sempozyumu, 15-17 Ekim 2008,Eskişehir, s. 875-883.
- E7. Aydın AC, Arslan A., Gül R., Çimento esaslı malzemelerin zamana bağlı davranışının simülasyonu, Antalya Yöresinin İnş. Müh. Sorunları Kongresi, Antalya, 2, 298-311, 22-24 Eylül 2005.
- E8. Gül, R., Aydın, A.C., Depreme Dayanıklı Yapıların Projelendirilmesi, I Doğu Anadolu ve Kafkasya Depremleri Jeofizik Toplantısı Bildiriler Kitabı, Erzurum, 71-85, 26 Ekim 2001.
- E9. Arslan, A., Aydın, A.C., "Çelik Lifli Betonların Darbe Etkisi Altında Genel Özellikleri", Çelik Tel Donatılı Betonlar Sempozyumu, 1-30, Eylül 1999.
- E10. Gül, R., Aydın, A.C., "Geciktirici Katkı Maddelerinin Beton İmalinde Kullanılması Durumunda Dikkat Edilmesi Gereken Hususlar", III. Ulusal Kimya Kongresi, Erzurum, 866-872, 1998.
- E11. Gül, R., Alp, B., Aydın, A.C., Şahin, R., "Kocapınar Pomzasından Üretilen Betonların Basınç Dayanımı", Prof. Dr. A. Rifat Yarar Sempozyumu, İstanbul Teknik Üniversitesi, İstanbul, 1, 487-503, 10 Aralık 1997.