

## **Prof. ABDUSSAMET ARSLAN**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Doctorate, University of Wales College of Cardiff, School Of Engineering, Civil Engineering Department, United Kingdom  
1988 - 1991

Postgraduate, Firat University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1985 - 1987

Undergraduate, Firat University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1980 - 1984

### **Foreign Languages**

English, C2 Mastery

### **Dissertations**

Doctorate, Mixed Mode Fracture Characteristics of Cementitious Materials, University of Wales College of Cardiff, School Of Engineering, Civil Engineering Department, 1991

Postgraduate, Çelik Lifli Betonlar, Firat University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1987

### **Research Areas**

Artificial Intelligence, Computer Learning and Pattern Recognition, Civil Engineering, Structural Engineering, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Materials in Civil Engineering, Concrete Technology, Material Mechanics

### **Academic Titles / Tasks**

Professor, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2000 - Continues

### **Academic and Administrative Experience**

Manager of Research and Application Center, Gazi University, -, 2020 - Continues

## Courses

Özel Betonlar, Postgraduate, 2021 - 2022

Construction Materials, Undergraduate, 2021 - 2022, 2020 - 2021

Betonarme-I, Undergraduate, 2021 - 2022

General Materials Science, Undergraduate, 2021 - 2022

## Advising Theses

Arslan A., STRUCTURAL PERFORMANCE ESTIMATION BY USING RAPID EVALUATION METHODS AND CONVOLUTIONAL NEURAL NETWORKS , Postgraduate, E.EMİN(Student), 2022

Arslan A., Çok katlı yapı çerçevelerinde kolonlar için kritik yük kombinasyonlarının belirlenmesinde genetik algoritma yaklaşımı, Postgraduate, A.HASDEMİR(Student), 2021

ARSLAN A., Determination Of The Design Principles Of High Performance Reinforced Concrete Members By Analytical And Experimental Approach, Doctorate, M.GÜMÜŞ(Student), 2021

Arslan A., Plan düzensizliğinin yapıların deprem davranışına etkisinin yapay zekâ sistemleri ile optimizasyonu ve modellenmesi, Doctorate, Z.SADAT(Student), 2021

ARSLAN A., Investigation Of The Effects Of Discharges Of Ballast Beds Using Geogrid And Geocell On Reinforced Concrete Travers, Postgraduate, E.ÜNAL(Student), 2019

ARSLAN A., Investigation Of Shear And Mixed Mod Fracture Mechanism For High Performance Concrete, Postgraduate, H.CAN(Student), 2019

ARSLAN A., Risk Assesment Of Buildings Against Earthquake By Visual Inspection Methods In Mobil Devices, Postgraduate, M.GÖKÇE(Student), 2019

ARSLAN A., Taze beton işlenebilirliğinin belirlenmesi için alternatif bir öneri, Postgraduate, İ.MELİH(Student), 2018

ARSLAN A., Investigation Of Mode-I Shear Fracture Behaviour Of High Performance Concrete, Postgraduate, İ.GAMZE(Student), 2018

ARSLAN A., Investigation of fracture mechanism and behaviour of high performance concretes within artificial aggregates in variable dimensions and directions under impact loading, Postgraduate, V.ERKAN(Student), 2017

ARSLAN A., A study on mixture design methods of high performance concrete, Postgraduate, D.DEMİRTÜRK(Student), 2017

ARSLAN A., Yüksek performanslı betonarme kırışlerin minimum donatı oranının kırılma mekanığı esaslarına göre belirlenmesi, Postgraduate, M.GÜMÜŞ(Student), 2016

ARSLAN A., The Determination Of Minimum Reinforcement Ratio Of High Performance Reinforced Beams Based On Fracture Mechanics, Postgraduate, M.Gümüş(Student), 2016

ARSLAN A., Hareketli yapı sistemleri ve geçici afet korunaklarına uygulaması, Postgraduate, Z.TAMER(Student), 2015

ARSLAN A., Investigation On Effects Of Aggregate Geometry And Orientation On Fracture Mechanism In High Strength Concrete, Postgraduate, O.YÖRÜK(Student), 2015

ARSLAN A., Deployable Structures And Application To Emergency Shelters, Postgraduate, Z.Tamer(Student), 2015

ARSLAN A., PERFORMANCE ANALYSIS OF POST TENSIONING BEAM TO COLUMN CONNECTIONS UNDER CYCLING LOADING IN PREFABRIC STRUCTURES, Doctorate, M.KAYA(Student), 2007

ARSLAN A., Deprem etkisi altındaki betonarme yapılarda zayıf kolon-güçlü kiriş birleşimleri için alternatif bir detay önerisi, Doctorate, A.BÜYÜKKARAGÖZ(Student), 2007

ARSLAN A., AN ALTERNATIVE DETAIL SUGGESTION FOR WEAK COLUMNSTRONG BEAM CONNECTIONS IN REINFIRCED CONCRETE STRUCTURES UNDER EARTHQUAKE EFFECT, Doctorate, A.BÜYÜKKARAGÖZ(Student), 2007

ARSLAN A., Silindirik sıvı depolama tanklarında sismik izolasyon uygulaması, Postgraduate, A.SAİT(Student), 2006

ARSLAN A., Çimento esası malzemelerin zamana bağlı davranışının sayısal (Lattice) modellenmesi, Doctorate, A.CÜNEYT(Student), 2004

ARSLAN A., Diatomitin yüksek dayanıklı betonun mekanik özelliklerine etkisi, Postgraduate, M.FATİH(Student), 2001

ARSLAN A., Betonarme dösemelerin akma çizgileri yöntemiyle analizinde akma çizgisi deseninin genetik algoritma ile belirlenmesi, Postgraduate, İ.UFUK(Student), 2001

ARSLAN A., Betonarme yüksek kırış tasarımında genetik algoritmaların kullanılması, Postgraduate, M.KAYA(Student), 2001

ARSLAN A., Betonun mezo-düzey davranışının deneysel ve sayısal olarak incelenmesi, Doctorate, P.TURĞUT(Student), 2001

ARSLAN A., Depremde hasar görmüş betonarme yapılarda hasar düzeyinin belirlenmesinde bir yapay sinir ağları uygulaması, Postgraduate, A.REMZİ(Student), 2000

ARSLAN A., Betonarme yapıların boyutlandırılmasında EC-2 standardının Türkiye koşullarında uygulanabilirliğinin incelenmesi, Postgraduate, İ.KESEN(Student), 1998

ARSLAN A., Betonarme yapı elemanlarında basınç-kesme kırılmasının ve boyut etkisinin deneysel ve nümerik olarak incelenmesi, Doctorate, R.İNCE(Student), 1998

ARSLAN A., Betonun kırılma yörüngesinin tespitinde genetik algoritma optimizasyonu, Postgraduate, M.DEMİRPOLAT(Student), 1997

ARSLAN A., Betonarme kırışların kafes kırış analogisinde fuzzy mantığı yaklaşımı, Postgraduate, M.KÖMÜR(Student), 1996

ARSLAN A., Yapılarda hareketli yük kombinezonlarının genetik algoritmalar ile belirlenmesi, Postgraduate, P.TURGUT(Student), 1995

ARSLAN A., Çimento bazlı malzemelerin kırılmasında boyut tesirinin ( Non-Lineer kırılma mekaniği ) yapay sinir ağları ile incelenmesi, Postgraduate, R.İNCE(Student), 1994

ARSLAN A., Kırılma mekaniği test modellerinin "yapay zeka" metodları ile incelenmesi, Postgraduate, A.KAZAZ(Student), 1993

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Green synthesis of SiO<sub>2</sub> and TiO<sub>2</sub> nanoparticles using safflower (*Carthamus tinctorius L.*) leaves and investigation of their usability as alternative fuel additives for diesel-safflower oil biodiesel blends**  
DOĞAN B., YEŞİLYURT M. K., Yaman H., KORKMAZ N., ARSLAN A.  
Fuel, vol.367, 2024 (SCI-Expanded)
- II. **Cracking behavior and flexural capacity prediction of singly reinforced RC beams with and without steel fiber**  
Gümüş M., ARSLAN A.  
Theoretical and Applied Fracture Mechanics, vol.124, 2023 (SCI-Expanded)
- III. **Definition of mode-I fracture behaviour of plain and fiber reinforced various grades of concretes by digital image analysis**  
GÜMÜŞ M., ARSLAN A., Kalkan H.  
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, 2023 (SCI-Expanded)
- IV. **Automatic Minimization of the Drift Performance of RC 3D Irregular Buildings Using Genetic Algorithm**  
Sadat Z., ARSLAN A.  
Advances in Civil Engineering, vol.2023, 2023 (SCI-Expanded)
- V. **Effect of support conditions on the performance of B70 sleeper overlying reinforced ballast and sub-ballast layer: Experimental and analytical investigation**  
ARSLAN A., Gümüş M., Ünal E.  
Transportation Geotechnics, vol.37, 2022 (SCI-Expanded)
- VI. **Genetic Algorithm approach in the prevention of torsional irregularity in reinforced concrete structures**  
Sadat Z., ARSLAN A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.3, pp.1469-1482, 2022 (SCI-Expanded)

- VII. **Effect of fiber type and content on the flexural behavior of high strength concrete beams with low reinforcement ratios**  
GÜMÜŞ M., ARSLAN A.  
STRUCTURES, vol.20, pp.1-10, 2019 (SCI-Expanded)
- VIII. **Investigation into the behaviour of shear stud applied weak column-strong beam connections**  
BÜYÜKKARAGÖZ A., ARSLAN A.  
MAGAZINE OF CONCRETE RESEARCH, vol.66, no.7, pp.348-363, 2014 (SCI-Expanded)
- IX. **Repair of post-tensioned precast beam to column connections**  
KAYA M., Arslan A.  
Structural Design of Tall and Special Buildings, vol.21, no.11, pp.844-854, 2012 (SCI-Expanded)
- X. **Effect of stress levels applied to pre-stressing strands on post-tensioned beam-to-column connections**  
KAYA M., Arslan A.  
Structural Design of Tall and Special Buildings, vol.21, no.9, pp.682-698, 2012 (SCI-Expanded)
- XI. **The effect of steel plates with shear studs for weak column-strong beam connections in the reinforced concrete structures under earthquake effect**  
Buyukkaragoz A., Arslan A.  
Strain, vol.47, pp.393-411, 2011 (SCI-Expanded)
- XII. **Effect of concrete compressive strength variation on impact behaviour Beton dayanimindaki değişimin çarpma davranışına etkisi**  
KANTAR E., Arslan A., ANIL Ö.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.26, no.1, pp.115-123, 2011 (SCI-Expanded)
- XIII. **Analytical modeling of post-tensioned precast beam-to-column connections**  
KAYA M., Arslan A.  
Materials and Design, vol.30, no.9, pp.3802-3811, 2009 (SCI-Expanded)
- XIV. **The effect of the diameter of prestressed strands providing the post-tensioned beam-to-column connections**  
KAYA M., Arslan A.  
MATERIALS & DESIGN, vol.30, no.7, pp.2604-2617, 2009 (SCI-Expanded)
- XV. **Mesoscale simulation of cement based materials' time-dependent behavior**  
AYDIN A. C., Arslan A., Guel R.  
Computational Materials Science, vol.41, no.1, pp.20-26, 2007 (SCI-Expanded)
- XVI. **Size-dependent response of dowel action in R.C. members**  
Ince R., Yalcin E., Arslan A.  
Engineering Structures, vol.29, no.6, pp.955-961, 2007 (SCI-Expanded)
- XVII. **Preliminary design of rubble mound breakwaters by using artificial neural networks Taş Dolgu Dalgakiranlarının Yapay Sinir Ağları ile Ön Tasarımı**  
KOÇ M. L., BALAS C. E., ARSLAN A.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.15, no.4, pp.3351-3375, 2004 (SCI-Expanded)
- XVIII. **Lattice modelling of size effect in concrete strength**  
Ince R., Arslan A., Karihaloo B.  
Engineering Fracture Mechanics, vol.70, no.16, pp.2307-2320, 2003 (SCI-Expanded)
- XIX. **Development of an expert system for selection of dam type on alluvium foundations**  
Emiroglu M., Tuna A., Arslan A.  
Engineering with Computers, vol.18, no.1, pp.24-37, 2002 (SCI-Expanded)
- XX. **Improved lattice model for concrete fracture**  
Arslan A., Ince R., Karihaloo B.  
Journal of Engineering Mechanics, vol.128, no.1, pp.57-65, 2002 (SCI-Expanded)
- XXI. **The neural network approximation to the size effect in fracture of cementitious materials**

- Arslan A., Ince R.  
ENGINEERING FRACTURE MECHANICS, vol.54, no.2, pp.249-261, 1996 (SCI-Expanded)
- XXII. Neural network-based design of edge-supported reinforced concrete slabs  
Arslan A., Ince R.  
Structural engineering review, vol.8, no.4, pp.329-335, 1996 (SCI-Expanded)
- XXIII. MIXED-MODE FRACTURE PERFORMANCE OF FIBER-REINFORCED CONCRETE UNDER IMPACT LOADING  
ARSLAN A.  
MATERIALS AND STRUCTURES, vol.28, no.182, pp.473-478, 1995 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. Using seismic isolation elements to protect cylindrical steel liquid storage tanks from destructive forces of earthquakes  
Mermer A. S., Mustafa Kaya M., ARSLAN A.  
Gazi University Journal of Science, vol.25, no.1, pp.165-173, 2012 (Scopus)
- II. Preliminary design of rubble mound breakwaters by using artificial neural networks | Ta? Dolgu Dalgakiranlarin Yapay Sinir A?lari ile {\"O}n Tasarimi  
Balas C. E., Koç M. L., Arslan A.  
TEKNIK DERGI/TECHNICAL JOURNAL OF TURKISH CHAMBER OF CIVIL ENGINEERS, vol.15, no.4, pp.3351-3375, 2004 (Scopus)
- III. Size effect in reinforced concrete beams with short shear span and without stirrups Kesme acikligi kisa kayma donatisiz betonarme kirislerde boyut etkisi  
Ince R., ARSLAN A.  
Turkish Journal of Engineering and Environmental Sciences, vol.24, no.1, pp.69-77, 2000 (Scopus)
- IV. Effect of steel fibers on the failure of early age reinforced concrete beam Celik liflerin erken yastaki betonarme kirislerin gocmesine etkisi  
Arslan A., Ulucan Z. C.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.8, no.4, pp.1507-1515, 1997 (Scopus)

### **Books & Book Chapters**

- I. Beton Teknolojisi  
ARSLAN A.  
Nobel, Ankara, 2022

### **Refereed Congress / Symposium Publications in Proceedings**

- I. Plan Düzensizliği Bulunan Yapıarda Düşey Taşıyıcı Boyutlarının Optimizasyonu ve 3-B Model Deneyi ile Yapı Davranışının İncelenmesi  
Sadat Z., ARSLAN A., BELGIN Ç. M.  
Ulusal 8. Yapı Mekaniği Laboratuvarları Çalıştayı, Eskişehir, Turkey, 14 - 15 October 2022, vol.1, pp.52-58
- II. A Comparative Study Between Theoretical and Experimental Flexural Capacities of HPRC Beams  
GÜMÜŞ M., ARSLAN A.  
ICAENS 2021, 1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 01 November 2021
- III. A Genetic Algorithm Based Load Arrangement Approach On Determination Of Maximum Cross-Section Effects Under Lateral Load In Multi-Storey Buildings

- ARSLAN A.  
ICAENS 2021, 1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 01 November 2021
- IV. **Deployable Structure Systems and Application to Temporary Disaster Shelters**  
ARSLAN A., ALDEMİR Ö.  
CE 2020-21, 14th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İstanbul, Turkey, 06 September 2021
- V. **Genetic Algorithm Approach in Determining Critical Load Combinations for Columns in Multi-Storey Building Frames**  
ARSLAN A., Hasdemir A., GÜMÜŞ M.  
14th International Congress On Advances in Civil Engineering, İstanbul, Turkey, 06 September 2021
- VI. **Effect of Concrete Strength and Reinforcement Ratio on the Flexural Behavior of Singly Reinforced Beams**  
ARSLAN A., GÜMÜŞ M.  
14th International Congress On Advances in Civil Engineering, İstanbul, Turkey, 6 - 08 September 2021
- VII. **Automatic Minimization of The Drift Performance of 3D RC Buildings With A2 Type Plan-Irregularities**  
ARSLAN A., Sadat Z.  
14th International Congress On Advances in Civil Engineering, İstanbul, Turkey, 06 September 2021
- VIII. **Behavior Of Ultra-High Performance Reinforced Concrete Beams And Fracture Mechanics Based Design**  
ARSLAN A.  
The International Congress on Phenomenological Aspects in Civil Engineering (PACE 2021), Erzurum, Turkey, 20 June 2021
- IX. **A Study on effect of steel fiber content on minimum reinforcement ratio of high strength reinforced concrete beams**  
GÜMÜŞ M., ARSLAN A.  
International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Seismic Practices, İstanbul, Turkey, 16 - 17 November 2018
- X. **A Study on effect of steel fiber content on minimum reinforcement ratio of high strength reinforced concrete beams**  
ARSLAN A., GÜMÜŞ M.  
IWAMISSE 2018, International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Seismic Practices, İstanbul, Turkey, 16 November 2018
- XI. **Yüksek performanslı betonlardan üretilmiş kırışlerde çelik lif içeriğinin minimum boyuna donanıma etkisi**  
GÜMÜŞ M., ARSLAN A.  
Ulusal Yapı Mekaniki Laboratuvarları 6.Toplantısı, Trabzon, Turkey, 17 - 18 November 2017
- XII. **Yüksek Dayanımlı Betonlarda Mikro Kırılma Mekanizmasının Çarpma Etkisi Altında İncelenmesi**  
Erkan V., BELĞİN Ç. M., ARSLAN A.  
Ulusal Yapı Mekaniki Laboratuvarları 6. Toplantısı, Trabzon, Turkey, 17 November 2017
- XIII. **Yüksek Performanslı Betonlarda Kesme Kırılması Davranışı**  
ARSLAN A., MÜTEVELLİ İ. G.  
Ulusal 6. Yapı Mekaniki Laboratuvarları Toplantısı, Turkey, 17 - 18 November 2017, pp.83-84
- XIV. **A Study on Effect of Micro Fiber Ratios on Shear Fracture of High Performance Concrete**  
ARSLAN A., MÜTEVELLİ İ. G.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, Nevşehir, Turkey, 8 - 10 May 2017, pp.3660-3673
- XV. **Kömürhan Köprüsünde Yerdeğiştirmeler**  
ÇAĞLAR Y., ŞENER S., YILDIRIM O., BELĞİN Ç. M., ARSLAN A.  
İMO Eskişehir 2.Köprüler ve Viyadükler Sempozyumu, Eskişehir, Turkey, 28 September 2011

- XVI. **Zayıf Kolon Güçlü Kiriş Birleşimlerinin Kusurlarının Giderilmesi İçin Alternatif Bir Öneri**  
BÜYÜKKARAGÖZ A., ARSLAN A.  
Sakarya Uluslararası Deprem Sempozyumu, 1 - 02 October 2009
- XVII. **Numerical simulation of cement based materials time dependent behaviour**  
AYDIN A. C., Gül R., ARSLAN A.  
2005 International Congress - Global Construction: Ultimate Concrete Opportunities, Dundee, United Kingdom, 5 - 07 July 2005, pp.303-312
- XVIII. **An improved lattice model for fracture and size effect of concrete structures**  
Karihaloo B., Ince R., Arslan A.  
IUTAM Symposium on Analytical and Computational Fracture Mechanics of Non-Homogeneous Materials, Cardiff, England, 18 - 22 June 2001, vol.97, pp.493-505
- XIX. **Taş dolgu dalgakırınlarının yapay sınır ağları ile tasarımları**  
BALAS C. E., ARSLAN A., KOÇ M. L.  
Türkiye İnşaat Mühendisliği XVI. Teknik Kongre ve Sergisi, Ankara, Turkey, 03 November 2001
- XX. **Lifli Betonların Darbe Etkisi Altında Genel Özellikleri**  
ARSLAN A., AYDIN A. C.  
Çelik Tel Donatılı Betonlar Sempozyumu, Sabancı Center, İstanbul, İstanbul, Turkey, 24 November 2000
- XXI. **Improvements in Lattice Modelling of Concrete Behaviour**  
ARSLAN A., AYDIN A. C.  
10th Year Symposium of the Faculty of Architecture and Engineering, European University of Lefke, TRNC, Lefke, Cyprus (Kktc), 16 November 2000
- XXII. **Yapılarda Deprem Etkisinin Azaltılması: Sismik temel İzolasyonlu yapılar ve Akıllı Yapılar**  
ARSLAN A.  
Milli Savunma Bakanlığı, Deprem Eğitim, Ankara, Turkey, 27 March 2000
- XXIII. **EC2-1 ve TS500'e Göre Betonarme Elemanların Zımbalama Tasarımı**  
Ataman H., ARSLAN A.  
Prof.Dr. Rifat Yarar Sempozyumu, İTÜ, İstanbul, Turkey, 10 December 1999, pp.311-323
- XXIV. **Genetik Algoritma İle bir Betonarme Kirişin Optimum Tasarımı**  
TURĞUT P., Arif G., ARSLAN A.  
Prof.Dr. Rifat Yarar Sempozyumu, İTÜ, İstanbul, Turkey, 10 December 1999, pp.349-361
- XXV. **Kemer Barajlarda Deprem Etkisiyle Oluşan Çatlakların Barajın Dinamik Davranışına Etkisi**  
CALAYIR Y., KARATON M., ARSLAN A.  
XI. Ulusal mekanik Kongresi, Abant izzet Baysal Üniversitesi, Bolu, Turkey, 06 October 1999
- XXVI. **Kemer Barajlarda Deprem Etkisiyle Oluşan Çatlakların Barajın Dinamik Davranışına Etkisi**  
CALAYIR Y., KARATON M., ARSLAN A.  
XI. Ulusal Mekanik Kongresi, TUMTMK XI. Ulusal Mekanik Kongresi, Bolu, Turkey, 01 September 1999, vol.1, pp.255-264
- XXVII. **Betonun Meso Düzey Davranışının Kafes Ağ Modellemesi**  
ARSLAN A., İNCE R.  
I. Ulusal Malzeme Mekaniği Sempozyumu, İstanbul, Turkey, 25 June 1998
- XXVIII. **Active Control of an SDF System Using Fuzzy Logic Control**  
ARSLAN A., GÜNEŞ N.  
Japan-Turkey Second Workshop on Earthquake Disaster Prevention Research, İstanbul, Turkey, 01 January 1998, vol.1
- XXIX. **Beton Ağırlık Barajlarda Tasarıma Esas Gerilme Yığılmalarının Yerleri ve Mertebesinin Yapay Sınır Ağrı ile Tespiti**  
ARSLAN A., CALAYIR Y., BAYLAR A.  
Türkiye İnşaat Mühendisliği 14.Teknik Kongresi, İzmir, İzmir, Turkey, 23 October 1997
- XXX. **Beton Ağırlık barajların Dinamik Karakteristiklerinin Yapay Sınır Ağlarıyla Belirlenmesi**  
CALAYIR Y., ARSLAN A., BAYLAR A.  
Türkiye İnşaat Mühendisliği 14.Teknik Kongresi, İzmir, İzmir, Turkey, 23 October 1997

- XXXI. **Yapay Sinir Ağlarıyla Depreme Maruz Betonarme Çerçeveelerde Emniyetli Süneklik Tahmini**  
ULUCAN Z. Ç., GÜNEŞ N., ARSLAN A.  
Dördüncü Ulusal Deprem Mühendisliği Konferansı, Ankara, Turkey, 17 - 19 September 1997, pp.389-400
- XXXII. **Sevlerde Minimum Güvenlik Faktörünün Genetik Algoritma ile Bulunması**  
BAYLAR A., KAYA N., ARSLAN A.  
İnşaat Mühendisliğinde Gelişmeler, III. Teknik Kongre, Ankara, Turkey, 15 - 16 September 1997, pp.189-198
- XXXIII. **Kuyulardan Alınabilecek Optimum Debinin Hesaplanmasında Genetik Algoritma Yaklaşımı**  
BAYLAR A., KAYA N., ARSLAN A.  
Su ve Çevre Sempozyumu 97, İstanbul, Turkey, 2 - 05 June 1997, pp.381-391
- XXXIV. **Lattice Modelling Of Concrete Fracture Under Uniaxial Tension**  
ARSLAN A., ULUCAN Z. Ç., CALAYIR Y.  
Fourth International Conference On Concrete Technology İn Developing Countries, Gazimağusa, Turkish Republic Of Northern Cyprus, 7 - 08 November 1996, pp.621-630
- XXXV. **A genetic search based arrangement of load combinations in structural frames**  
ARSLAN A., TURĞUT P., CALAYIR Y.  
ADVANCES IN COMPUTATIONAL STRUCTURES TECHNOLOGY, 3rd International Conference in Computational Structures Technology, Budapest, Hungary, 20 August 1996, pp.85-91
- XXXVI. **Yapı Mühendisliğinde Genetik Algoritmalar ve Uygulama Potansiyeli**  
ARSLAN A., TURĞUT P.  
İnşaat Mühendisliğinde Bilgisayar Kullanımı V. Sempozyumu, İTÜ İnşaat Fakültesi, İstanbul, Turkey, 17 June 1996
- XXXVII. **Genetik Algoritmalar**  
ARSLAN A., ULUCAN Z. Ç., TURGUT P.  
GAP I. Mühendislik Kongresi, Harran Üniversitesi Mühendislik Fakültesi, Şanlıurfa, Turkey, 29 May - 01 June 1996, pp.698-703
- XXXVIII. **Neural Network Based Analysis of Size Effect in Concrete Fracture**  
ARSLAN A., İNCE R.  
Second Int. conf. on Fracture Mechanics of Concrete and Concrete Structures, FRAMCOS-2, Zürich, Switzerland, 01 July 1995, pp.693-706
- XXXIX. **Effect of Model Fracture Law and Porosity on Tensile Softening of Concrete**  
ARSLAN A., SCHLANGEN E.  
Second Int. conf. on Fracture Mechanics of Concrete and Concrete Structures, FRAMCOS-2, Zürich, Switzerland, 01 July 1995, vol.2, pp.45-54
- XL. **Experiments and Computer Simulations of Plain Concrete**  
van Mier J., Schlangen E., ARSLAN A., Vervuurt A., Visser J.  
Nordic Symposium on Modern Design of Concrete Structures, Aalborg University, Aalborg, Denmark, 03 May 1995
- XLI. **Yapı Mühendisliğinde Yapay Sinir Ağları ve Uygulama Potansiyeli**  
ARSLAN A., İNCE R.  
İnşaat Mühendisliğinde Bilgisayar Kullanımı IV. Sempozyumu, İTÜ İnşaat Fakültesi, İstanbul, Turkey, 13 June 1994
- XLII. **Bileşik Eğilme Etkisindeki Betonarme Kolonların Ekonomik Boyutlandırılması Üzerine Bir Çalışma**  
ULUCAN Z. Ç., ARSLAN A., ERDOĞAN A. S.  
VIII. Mühendislik Haftası, Süleyman Demirel Üniversitesi, Mühendislik - Mimarlık Fakültesi, İsparta, Turkey, 25 - 27 May 1994
- XLIII. **THE NEURAL NETWORK BASED DESIGN OF EDGE SUPPORTED REINFORCED CONCRETE SLABS**  
ARSLAN A., İNCE R.  
2nd International Conference on Computational Structures Technology, Athens, Greece, 30 August - 01 September 1994, pp.91-97
- XLIV. **1. Derece Deprem Bölgelerinde Betonarme Taşıyıcı Elemanlarla İlgili Basit Kurallar**  
ULUCAN Z. Ç., ARSLAN A., ERDOĞAN A. S.  
İnşaat Mühendisliğinde Gelişmeler I. Sempozyumu, Doğu Akdeniz Üniversitesi, Gazi Mağusa, Turkey, 25 - 27 October 1993, vol.1, pp.31-38
- XLV. **Mixed Mode Fracture Performance Of Frc Under Impact Loading**

- ARSLAN A., ULUCAN Z. Ç., ERDOĞAN A. S.  
Advances İn Civil Engineering – First Technical Congres, Eastern Mediterranean University, Gazi Mağusa, Turkey,  
25 - 27 October 1993, vol.2, pp.745-754
- XLVI. **İnşaat Mühendisliğinde "Uzman Sistem" uygulamaları**  
ARSLAN A.  
İnşaat Mühendisliğinde Bilgisayar Kullanımı III. Sempozyumu, İTÜ İnşaat Fakültesi, 15 June 1992, vol.1, pp.217-229
- XLVII. **Kırılma Mekanığı Açıından Beton-Ankraj Çubuğu Etkileşiminin İncelenmesi**  
ARSLAN A.  
VII. Mühendislik Haftası, Akdeniz Üniversitesi, Isparta, 25 May 1992
- XLVIII. **MIXED-MODE FRACTURE - INCLUDING TORSION IN A NEW COMPACT TEST SPECIMEN GEOMETRY**  
ARSLAN A.  
INTERNATIONAL CONF ON FRACTURE PROCESSES IN BRITTLE DISORDERED MATERIALS : CONCRETE, ROCK, CERAMICS, Northweijk, Netherlands, 19 - 21 June 1991, vol.13, pp.737-746
- XLIX. **Mixed-Mode Fracture in Compact Shear Specimens**  
ARSLAN A., HUGHES T., BARR B.  
8th Biennial European Conference on Fracture, ECF-8, Politecnico di Torino, TORINO, Italy, 01 October 1990, vol.2, pp.676-681

## Episodes in the Encyclopedia

- I. **Adli Bilimlerde Yapay Zeka**  
Arslan A.  
Adalet Yayınevi, pp.5267-5298, 2023

## Other Publications

- I. **6 Şubat 2023 Kahramanmaraş Pazarcık ve Elbistan Depremi Ön Değerlendirme Raporu**  
Arslan A., Akbaş S. O., Belgin Ç. M., Demirel Y., Tekin E., Kalkan H., Aldemir Ö.  
Technical Report, pp.1-67, 2023
- II. **SEFERHİSAR AÇIKLARI (İZMİR) DEPREMİ ÖN DEĞERLENDİRME RAPORU**  
Arslan A., Aykaç S., Akbaş S. O., Özmen B., Balas C. E., Belgin Ç. M., Özbek E., Öztürk Akça C.  
Technical Report, pp.1-12, 2020

## Supported Projects

- ARSLAN A., Project Supported by Higher Education Institutions, Çarpma Etkisi Altında Beton Davranışının Mikro Düzeyde İncelenmesi, 2006 - 2007
- ARSLAN A., Project Supported by Higher Education Institutions, Deprem etkisi altındaki betonarme yapılarda kolon-kiriş birleşimleri ve detaylarının optimizasyonu, 2004 - 2006

## Patent

- Balas C. E., Arslan A., KIYI YAPILARI TEK KORUYUCU TABAKASI, Industrial Design, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 201907288 , Standard Registration, 2019
- Büyükkaragöz A., Arslan A., Betonarme Kolon-Kiriş Birleşimlerinde Kesme Çivili Levha Uygulama Yöntemi, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2012 06767 , Standard Registration, 2015
- Arslan A., Uzaktan (internet üzerinden) banka bilgilerini vermeden gsm ve kargo onaylı güvenli bir alışveriş sistemi ve

metodu, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: TR2007-08898 , Standard Registration, 2012, 2011

## Metrics

Publication: 97

Citation (WoS): 261

Citation (Scopus): 309

H-Index (WoS): 9

H-Index (Scopus): 10

## Non Academic Experience

ÇEVRE VE ŞEHİRCİLİK BAKANLIĞI

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

OECD

Ministry, Ministry of National Education, Under Secretary

Non-profit Organisation, OECD, OECD-CELE

Ministry, Milli Eğitim Bakanlığı, Yatırımlar ve Tesisler Daire Başkanlığı

MİLLÎ EĞİTİM BAKANLIĞI

BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI