

Assoc. Prof. FERHAT ERDAL

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Mühendislik Bilimleri, Turkey 2007 - 2011

Post Doctorate, University of California, Los Angeles, Ucla Engineering Faculty, Department Of Civil And Environmental Engineering, United States Of America 2010 - 2010

Postgraduate, Middle East Technical University, Faculty Of Engineering, Mühendislik Bilimleri, Turkey 2005 - 2007

Undergraduate, Akdeniz University, Faculty Of Engineering, İnşaat Mühendisliği Bölümü, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, High Performance Computations for Engineering, University of Pecs, Hungary, 2009

Dissertations

Doctorate, ULTIMATE LOAD CAPACITY OF OPTIMALLY DESIGNED CELLULAR BEAMS Erdal, Ferhat, Middle East Technical University, Mühendislik Fakültesi, Mühendislik Bilimleri, 2011

Postgraduate, OPTIMUM DESIGN OF GRILLAGE SYSTEMS BY USING HARMONY SEARCH ALGORITHM, Middle East Technical University, Mühendislik Fakültesi, Mühendislik Bilimleri, 2007

Research Areas

Civil Engineering, Mechanical, Structural Mechanics, Structure, Steel Structures, Performance of Constructed Facilities, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues

Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2018 - 2018

Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2013 - 2018

Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Akdeniz University, SERA TEKNOLOJİLERİ UYGULAMA VE ARAŞTIRMA MERKEZİ, 2022 - Continues

Akdeniz University, Deprem Araştırma Merkezi, 2016 - Continues

Akdeniz University, Faculty of Engineering, 2016 - 2018

Courses

Structural Elements, Undergraduate, 2022 - 2023

Plastic Analysis and Design of Steel Structures, Postgraduate, 2022 - 2023

Yüksek Yapılar, Undergraduate, 2021 - 2022

Industrial Steel Structures, Undergraduate, 2020 - 2021

Design of Steel Structures, Undergraduate, 2020 - 2021

UZAY ÇERÇEVELİ YAPILARIN ANALİZ, TASARIM VE KONSTRÜKSİYONU, Doctorate, 2018 - 2019

Statik, Undergraduate, 2014 - 2015

Statik ve Mukavemet, Undergraduate, 2013 - 2014

Advising Theses

Erdal F., Eğrisel formun yeni nesil çelik kirişlerin taşıma kapasitesine etkisinin deneysel ve sayısal olarak incelenmesi, Doctorate, S.TAŞ(Student), 2024

Erdal F., SERA SİSTEMLERİNDE ÖNGERİLMELİ BETON KOLONLARIN TASARIMI VE TAŞIMA KAPASİTELERİNİN HESAPLANMASI, Postgraduate, S.SAYGIN(Student), 2023

Erdal F., FARKLI AÇIKLIKLARA SAHİP DOLU GÖVDELİ KUBBE KAFES SİSTEMLER İLE DAİRESEL BOŞLUKLU KUBBE KAFES SİSTEMLERİN TASARIM VE MALİYET KARŞILAŞTIRILMASI, Postgraduate, A.ADNANOĞLU(Student), 2022

Erdal F., Berkitme levhalarının dairesel boşluklu çelik kirişlerin yük taşıma kapasitelerine etkilerinin sonlu elemanlar yöntemiyle analizi, Postgraduate, G.DOĞAN(Student), 2021

ERDAL F., TRAPEZ VE DALGALI FORMDAKİ ONDÜLİN GÖVDELİ ÇELİK KİRİŞLERİN YÜK TAŞIMA KAPASİTELERİNİN KARŞILAŞTIRMALI ANALİZİ, Postgraduate, H.Taylan(Student), 2019

ERDAL F., ONDÜLİN GÖVDELİ KİRİŞLERİN OPTİMİZASYONU VE NİHAİ YÜK TAŞIMA KAPASİTELERİNİN ANALİZİ, Doctorate, O.Tunca(Student), 2019

ERDAL F., OPTİMUM BOYUTLANDIRILMIŞ GÖVDE YÜKSEKLİĞİ ARTIRILMIŞ ÇELİK KİRİŞLERİN YÜK TAŞIMA KAPASİTELERİNİN KARŞILAŞTIRMALI ANALİZİ, Postgraduate, S.TAŞ(Student), 2017

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunması, Pamukkale Üniversitesi, February, 2019

Doctorate, Doktora Tez Savunması, Akdeniz Üniversitesi, September, 2018

Post Graduate, Yüksek Lisans Tez Savunması, Akdeniz Üniversitesi, August, 2018

Doctorate, Doktora Tez Savunması, Akdeniz Üniversitesi, December, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of geometry on flexural behavior of optimal designed web-expanded beams**
Taş S., ERDAL F., Tunca O., ÖZÇELİK R.
Journal of Constructional Steel Research, vol.215, 2024 (SCI-Expanded)
- II. **External strengthening of RC structures with buckling-restrained braced frames**

Erdil E. F., Özçelik R., Erdal F.

BULLETIN OF EARTHQUAKE ENGINEERING, vol.21, no.16, pp.1-33, 2023 (SCI-Expanded)

- III. **Influence of trapezoidal and sinusoidal corrugation on the flexural capacity of optimally designed thin-walled beams**
ERDAL F., Tunca O., Taylan H., ÖZÇELİK R., SÖĞÜT H.
Structural Engineering and Mechanics, vol.84, no.1, pp.63-76, 2022 (SCI-Expanded)
- IV. **Experimental and finite element study of optimal designed steel corrugated web beams**
ERDAL F., Tunca O., Tas S., ÖZÇELİK R.
ADVANCES IN STRUCTURAL ENGINEERING, vol.24, no.9, pp.1814-1827, 2021 (SCI-Expanded)
- V. **Experimental investigation and numerical analysis of optimally designed composite beams with corrugated steel webs**
ERDAL F., TUNCA O., ÖZÇELİK R.
STEEL AND COMPOSITE STRUCTURES, vol.37, no.1, pp.1-14, 2020 (SCI-Expanded)
- VI. **Design of buckling restrained braces with composite technique**
ÖZÇELİK R., Dikiciasik Y., Civelek K. B., ERDİL E. F., ERDAL F.
STEEL AND COMPOSITE STRUCTURES, vol.35, no.5, pp.687-699, 2020 (SCI-Expanded)
- VII. **A firefly algorithm for optimum design of new-generation beams**
ERDAL F.
ENGINEERING OPTIMIZATION, vol.49, no.6, pp.915-931, 2017 (SCI-Expanded)
- VIII. **Effect of stiffeners on failure analyses of optimally designed perforated steel beams**
ERDAL F.
STEEL AND COMPOSITE STRUCTURES, vol.22, no.1, pp.183-201, 2016 (SCI-Expanded)
- IX. **The comparative analysis of optimal designed web expanded beams via improved harmony search method**
Erdal F.
STRUCTURAL ENGINEERING AND MECHANICS, vol.54, no.4, pp.665-691, 2015 (SCI-Expanded)
- X. **An improved particle swarm optimizer for steel grillage systems**
ERDAL F., Dogan E., Saka M. P.
STRUCTURAL ENGINEERING AND MECHANICS, vol.47, no.4, pp.513-530, 2013 (SCI-Expanded)
- XI. **Ultimate load carrying capacity of optimally designed steel cellular beams**
ERDAL F., Saka M. P.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.80, pp.355-368, 2013 (SCI-Expanded)
- XII. **Optimum design of cellular beams using harmony search and particle swarm optimizers**
Erdal F., Dogan E., Saka M. P.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.67, no.2, pp.237-247, 2011 (SCI-Expanded)
- XIII. **Comparison of non-deterministic search techniques in the optimum design of real size steel frames**
HASANÇEBİ O., Carbas S., Dogan E., ERDAL F., Saka M. P.
COMPUTERS & STRUCTURES, vol.88, no.17-18, pp.1033-1048, 2010 (SCI-Expanded)
- XIV. **Adaptive Harmony Search Method for Structural Optimization**
HASANÇEBİ O., Erdal F., Saka M. P.
JOURNAL OF STRUCTURAL ENGINEERING, vol.136, no.4, pp.419-431, 2010 (SCI-Expanded)
- XV. **Harmony search based algorithm for the optimum design of grillage systems to LRFD-AISC**
Saka M. P., ERDAL F.
STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, vol.38, no.1, pp.25-41, 2009 (SCI-Expanded)
- XVI. **Performance evaluation of metaheuristic search techniques in the optimum design of real size pin jointed structures**
HASANÇEBİ O., Carbas S., Dogan E., ERDAL F., Saka M. P.
COMPUTERS & STRUCTURES, vol.87, no.5-6, pp.284-302, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Structural features of cold-formed steel profiles**
ERDAL F., tunca o., sağısöz e., çarbaş s.
CHALLENGE JOURNAL OF STRUCTURAL MECHANICS, vol.4, no.2, pp.1-5, 2018 (Peer-Reviewed Journal)
- II. **Ultimate Load Capacity of Optimal Designed Angelina™ Beams**
ERDAL F., tunca o., taş s., çarbaş s.
Smart Construction Research, vol.2, no.1, pp.1-18, 2018 (Peer-Reviewed Journal)
- III. **Optimum Design of Composite Corrugated Web Beams Using Hunting Search Algorithm**
ERDAL F., tunca o., doğan e.
International Journal Of Engineering & Applied Sciences, vol.9, no.2, pp.156-168, 2017 (Peer-Reviewed Journal)
- IV. **Nonlinear Finite Element Analysis of Optimally Designed Steel Angelina Beams**
ERDAL F., tunca o., Taş S., Carbas S.
International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, no.10, pp.1263-1266, 2016 (Peer-Reviewed Journal)
- V. **Effect of Random Number Sequences On The Optimum Design of Castellated Beams With Improved Harmony Search Method**
ERDAL F., taş s., tunca o., çarbaş s.
International Journal Of Engineering & Applied Sciences, vol.8, no.3, pp.25-39, 2016 (Peer-Reviewed Journal)
- VI. **Sinüsoidal Boşluklu Gövde Yüksekliği Arttırılmış Çelik Kirişlerin Optimum Boyutlandırılması**
ERDAL F.
AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.16, no.Özel sayı, pp.50-58, 2016 (Peer-Reviewed Journal)
- VII. **Optimum Design of Corrugated Web Beams Using Stochastic Search Techniques**
ERDAL F., Doğan E., Tunca O. O., Taş S.
International Journal of Civil & Structural Engineering, vol.3, no.1, pp.104-108, 2016 (Peer-Reviewed Journal)
- VIII. **Nonlinear finite element analysis of optimally designed steel cellular beams**
ERDAL F., taş s., tunca o. o.
Journal of Research on Engineering Structures and Materials, vol.2, no.2, pp.59-66, 2015 (Peer-Reviewed Journal)
- IX. **The Effect of Member Grouping on the Optimum Design of Grillages with Particle Swarm Method**
ERDAL F.
Journal of Engineering and Applied Sciences, vol.3, no.3, pp.47-59, 2011 (Peer-Reviewed Journal)
- X. **Petek Kirişlerin Yapılarda Kullanılması**
ERDAL F.
Yapı Dünyası, vol.159, pp.19-21, 2009 (Peer-Reviewed Journal)
- XI. **Optimum Design of Geodesic Steel Domes Under Code Provisions using Metaheuristic Techniques**
ERDAL F.
Journal of Engineering and Applied Sciences,, vol.2, no.2, pp.88-103, 2009 (Peer-Reviewed Journal)
- XII. **Effect of Beam Spacing in the Harmony search based optimum design of grillages**
ERDAL F.
Asian Journal of Civil Engineering, vol.9, no.3, pp.215-228, 2008 (Scopus)

Books & Book Chapters

- I. **The Design of Trapezoidal Corrugated Web Beams Using Firefly Method**
ERDAL F., Tunca O. O., Dogan E., ÖZÇELİK R.
in: Nature-Inspired Metaheuristic Algorithms for Engineering Optimization Applications, Serdar Carbas Abdurrahim Toktas Deniz Ustun, Editor, Springer, London/Berlin , Singapur, pp.137-152, 2021
- II. **Hunting Search Algorithm**
ERDAL F., tunca o.

in: Swarm Intelligence Algorithms A Tutorial, Adam Slowik, Editor, Taylor & Francis Group, London, pp.219-230, 2020

III. Hunting Search Optimization, Modification and Application

ERDAL F., tunca o., dođan e.

in: Swarm Intelligence Algorithms Modifications and Applications, Adam Slowik, Editor, Taylor & Francis Group, London, pp.229-239, 2020

IV. Hunting Search Algorithm

ERDAL F., TUNCA O.

in: Swarm Intelligence Algorithms A Tutorial, Adam Slowik, Editor, Taylor & Francis Group, Londrina, pp.219-230, 2020

V. Hunting Search Optimization, Modification and Application

ERDAL F., TUNCA O., DOĐAN E.

in: Swarm Intelligence Algorithms Modifications and Applications, Adam Slowik, Editor, Taylor & Francis Group, Londrina, pp.229-239, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Çarpılma Etkisi Altında Soğuk Şekillendirilmiş İnce Cidarlı Çelik Profillerin Optimum Tasarımı**
ÇARBAŞ S., TUNCA O., ERDAL F.
8. Uluslararası Çelik Yapılar Sempozyumu, Konya, Turkey, 24 - 26 October 2019, vol.8, pp.86-95
- II. **Kiriş Açıklığının Gövde Yüksekliği Artırılmış Çelik KirişlerinYük Taşıma Kapasitelerine Etkisinin Belirlenmesi**
TUNCA O., ERDAL F., ÇARBAŞ S.
8. Uluslararası Çelik Yapılar Sempozyumu, Konya, Turkey, 24 - 26 October 2019, vol.8, pp.369-378
- III. **Betonarme Çerçeve Sistemlerin Histeretik Davranışlarının İncelenmesi**
TUNCA O., ÇARBAŞ S., ERDAL F.
7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, vol.7, pp.7-10
- IV. **A Firefly Algorithm for Optimum Design of Corrugated Steel Web Beams**
ERDAL F., tunca o., Carbas S.
International Conference on Civil and Environmental Engineering (ICCEE), Cannes, France, 13 - 14 August 2018, pp.1-6
- V. **Structural Design Optimization through Water Cycle Algorithm with Evaporation Rate**
TUNCA O., AYDOĞDU İ., ERDAL F., ÇARBAŞ S.
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.169
- VI. **Optimal Discrete Design of Steel Truss Systems Using Symbiotic Organisms Search**
TUNCA O., AYDOĞDU İ., ERDAL F., ÇARBAŞ S.
International Congress on Computational Mechanics, Chania, Greece, 4 - 06 June 2018, pp.58
- VII. **The Strength Of Timber Beam Members Consisted Of Varying Parts**
SÖĞÜT H., ÖZÇELİK R., ERDAL F., Alanyalı M.
3rd International Conference on Civil and Enviromental Engineering, İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.496
- VIII. **Optimum Design of Cellular Beams Via Bat AlgorithmWith Levy Flights**
DOĞAN E., ÖZYÜKSEL ÇİFTÇİOĞLU A., ERDAL F.
VIII International Conference Optimization and Applications, Petrovac, KARADAĞ, 2 - 07 November 2017, vol.1987
- IX. **Structural Shape Design Optimization of Steel Lamella Domes**
TUNCA O., AYDOĞDU İ., ERDAL F., ÇARBAŞ S.
2.Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Kocaeli, Turkey, 12 - 13 May 2017, pp.420-421
- X. **Ultimate Load Carrying Capacity of Optimally Designed Cellular Beams**
ERDAL F., Saka M. P., Dogan E.
Nordic Steel 2012 Construction Conference, Oslo, Norway, 5 - 07 September 2012, pp.167-179

- XI. **Optimum Design of Grillage Systems under Code Provisions using Particle Swarm Optimization**
Dogan E., ERDAL F., Saka M. P.
The Genetic and Evolutionary Computation Conference GECCO'10, Portland Oregon, United States Of America, 7 - 11 July 2010, vol.978, no.1, pp.186-189
- XII. **Optimum Design of Castellated Beams Using Harmony Search Method**
ERDAL F., saka m. p.
The Eight International Conference on Structural and Multidisciplinary Optimization, Lizbon, Portugal, 1 - 05 June 2009, pp.175-188
- XIII. **Optimum Design of Cellular Beams Using Harmony Search Method**
ERDAL F., saka m. p.
The Ninth International Conference on Computational Structures Technology, Atina, Greece, 2 - 05 September 2008, pp.91-98
- XIV. **Optimum Design of Grillage Systems Using the Harmony Search Algorithm**
ERDAL F., saka m. p.
The Eighth International Conference on Computational Structures Technology, CST 2006, Las Palmas, Spain, 12 - 15 September 2006, pp.101-110

Supported Projects

ERDAL F., ÖZÇELİK R., ÇARBAŞ S., TEZCAN N. Y., Avcı K., Project Supported by Higher Education Institutions, Öngerilmeli Kolonların Farklı Yükler Altında Yük Taşıma Kapasitelerinin Hesaplanması, 2023 - Continues

Erdal F., Özçelik R., Tezcan N. Y., Çarbaş S., TUBITAK Project, OPTİMUM BOYUTLANDIRILMIŞ ÖNGERİLMELİ BETONARME DİREKLERİN SERA VE ÖRTÜ SİSTEMLERİNDE UYGULANMASI, 2023 - 2025

Özçelik R., Erdal F., Eroğlu Azak T., TUBITAK Project, Yeni Tasarım Betonarme Yapılarda Burkulması Engellenmiş Çelik Çaprazların Kullanımının Araştırılması, 2021 - 2024

ERDAL F., DOĞAN E., TUNCA O., Taylan H., TAYMUŞ R. B., Project Supported by Higher Education Institutions, Eğrisel Formun Yeni Nesil Çelik Kirişlerin Taşıma Kapasitesine Etkisi, 2019 - 2022

ERDAL F., TUNCA O., Taylan H., Project Supported by Higher Education Institutions, Ondülin Gövdeli Kirişlerin Optimizasyonu ve Nihai Yük Taşıma Kapasitelerinin Analizi, 2019 - 2021

ERDAL F., ÇARBAŞ S., TUNCA O., TAYLAN H., Project Supported by Higher Education Institutions, TRAPEZ VE DALGALI FORMDAKİ ONDÜLİN GÖVDELİ ÇELİK KİRİŞLERİN YÜK TAŞIMA KAPASİTELERİNİN KARŞILAŞTIRMALI ANALİZİ, 2018 - 2020

Özçelik R., Erdal F., Aydoğdu İ., TUBITAK Project, Development of External Reinforcement Methods with Buckling Prevented Steel Braces of Reinforced Concrete Structures, 2017 - 2020

ERDAL F., TUNCA O., Project Supported by Higher Education Institutions, Ondülin Gövdeli Kirişlerin Optimizasyonu Ve Nihai Yük Tasıma Kapasitelerinin Analizi, 2016 - 2018

Erdal F., TUBITAK Project, Ondülin Gövdeli Kirişlerin Optimizasyonu Ve Nihai Yük Taşıma Kapasitelerinin Analizi, 2014 - 2017

ERDAL F., ÖZÇELİK R., TUNCA O. O., Taş S., Project Supported by Higher Education Institutions, OPTİMUM BOYUTLANDIRILMIŞ GÖVDE YÜKSEKLİĞİ ARTTIRILMIŞ ÇELİK KİRİŞLERİN YÜK TAŞIMA KAPASİTELERİNİN KARŞILAŞTIRILMALI ANALİZİ, 2015 - 2016

ERDAL F., TUBITAK Project, Optimum Design of Three Dimensional Steel Skeleton Structures Using Stochastic Search Techniques and its National Structural Engineering Applications, 2008 - 2010

Activities in Scientific Journals

International Journal of Engineering and Applied Sciences, Assistant Editor/Section Editor, 2013 - 2016

Metrics

Publication: 47

Citation (WoS): 467

Citation (Scopus): 719

H-Index (WoS): 8

H-Index (Scopus): 8

Congress and Symposium Activities

A Firefly Algorithm for Optimum Design of Corrugated Steel Web Beams, International Conference on Civil and Environmental Engineering (ICCEE), Cannes/France, Attendee, Cannes, France, 2018

Structural Design Optimization through Water Cycle Algorithm with Evaporation Rate, International Conference on Applied Mathematics in Engineering, Balıkesir, Türkiye, Attendee, Balıkesir, Turkey, 2018

Optimal Discrete Design of Steel Truss Systems Using Symbiotic Organisms Search, International Congress on Computational Mechanics, Chania/GREECE,, Attendee, Hania, Greece, 2018

Soğukta Şekillendirilmiş Çelik Profillerin Yapısal Özellikleri, Uluslar Arası Katılımlı 7. Çelik Yapılar Sempozyumu, Gaziantep, Türkiye, Attendee, Gaziantep, Turkey, 2017

Experimental Tests of Optimally Designed Composite Corrugated Web Beams, Conference: 3rd International Conference on Mechanics of Composites, Bologna, Italy, Attendee, Bologna, Italy, 2017

Structural Shape Design Optimization of Steel Lamella Domes, Conference: 2nd International Congress on Engineering Architecture and Design, Kocaeli, Turkey, Attendee, Kocaeli, Turkey, 2017

FINITE ELEMENT ANALYSIS AND EXPERIMENTAL STUDIES OF OPTIMUM DESIGNED ANGELINA™ STEEL BEAM, International Energy and Engineering Conference 2016, Gaziantep/TURKEY, Attendee, Gaziantep, Turkey, 2016

The Comparative Analysis of Optimal Designed Web Expanded Beams via Improved Harmony Search Method, Fourth International Conference on Advances in Civil, Structural and Construction Engineering - CSCE 2016, Rome, ITALY, Attendee, Rome, Italy, 2016

"Optimum Design of Corrugated Web Beams Using Stochastic Search Techniques" Third International Conference on Advances in Civil, Structural and Environmental Engineering ACSEE-2015, Zurich, Switzerland, Attendee, Zürich, Switzerland, 2015

"ONDÜLİN GÖVDELİ KİRİŞLERİN STOKASTİK OPTİMİZASYON YÖNTEMLERİ KULLANILARAK OPTİMUM BOYUTLANDIRILMASI" XIX. Ulusal Mekanik Kongresi, UMK-2015, Trabzon, 24-28 Ağustos 2015, Attendee, Trabzon, Turkey, 2015

Optimum design of grillage systems using firefly algorithm optimization method, International Conference on Civil, Structural and Environmental Engineering, ICCSEE-2014, 22-23 September 2014, Paris, FRANCE, Attendee, Paris, France, 2014

"Yapısal Optimizasyon Problemlerinin Çözümlemelerini Bulmak için Kullanılan Meta-Bulgusal Araştırma Yöntemlerinin Karşılaştırılması" XVIII. Ulusal Mekanik Kongresi, UMK-2013, Manisa, 06-09 Eylül 2013., Attendee, Manisa, Turkey, 2013

"Hunting Search Algorithm Based Design Optimization of Steel Cellular Beams" GECCO'13, July 6-10, 2010, Amsterdam, Netherland. ACM 978-1-4503-0072-8/13/07., Attendee, Amsterdam, Netherlands, 2013

"Moment Dayanımlı Çelik Çerçevelerin GUGUK KUŞU ARAMA YÖNTEMİ İLE OPTİMİZASYONU" İnşaat Mühendisliği'nde 100. Yıl Teknik Kongresi, Yıldız Teknik Üniversitesi, İstanbul, 22-24 Kasım 2012, Attendee, İstanbul, Turkey, 2012

"The effect of member grouping on the optimum design of grillages with stochasticsearch techniques" ICONC 2012, International Construction Congress, October 11-13, 2012, Isparta, Turkey., Attendee, Isparta, Turkey, 2012

"Ultimate Load Carrying Capacity of Optimally Designed Cellular Beams" Nordic Steel 2012 Construction Conference, September 5-7, 2012, Oslo, Norway., Attendee, Oslo, Norway, 2012

"İzgara Sistemlerin LRFD-AISC Şartnamesine Göre Parçacık Küme Optimizasyon Yöntemi Kullanılarak Optimum Boyutlandırılması" XVII. Ulusal Mekanik Kongresi, UMK-2011,Elazığ, 06-09 Eylül 2011., Attendee, Elazığ, Turkey, 2011

"Comparison of Metaheuristic Techniques in Finding The Solutions of Optimization Problems" 2nd International Symposium on Computing in Science and Engineering, June 1-4, 2011, Kuşadası, Aydın, Turkey., Attendee, Aydın, Turkey,

2011

"Optimum Design of Geodesic Steel Domes under Code Provisions using Metaheuristic Techniques", 9th International Congress on Advances in Civil Engineering, September 27-30, 2010, Trabzon, Turkey, Attendee, Trabzon, Turkey, 2010

"Optimum Design of Grillage Systems under Code Provisions using Particle Swarm Optimization" GECCO'10, July 7-11, 2010, Portland, Oregon, USA. ACM 978-1-4503-0072-8/10/07., Attendee, Portland, Turkey, 2010

"Dairesel Gözenekli Petek Kirişlerin Harmoni Arama Yöntemi Kullanılarak Optimum Boyutlandırılması" XVI. Ulusal Mekanik Kongresi, UMK-2009,Kayseri, 22-26 Haziran 2009., Attendee, Kayseri, Turkey, 2009

"Optimum Design of Castellated Beams Using Harmony Search Method", Proceedings of The Eight International Conference on Structural and Multidisciplinary Optimization, 1-5 June, 2009, Lisbon, Portugal., Attendee, Lisbon, Portugal, 2009

"Optimum Design of Cellular Beams Using Harmony Search Method", Proceedings of The Ninth International Conference on Computational Structures Technology, 2-5 September, 2008, Athens, Greece., Attendee, Athens, Greece, 2008

"Optimum Design of Grillage Systems Using the Harmony Search Algorithm", The Eighth International Conference on Computational Structures Technology, CST 2006, Las Palmas de Gran Canaria, Spain, 12-15 September 2006, Attendee, Las Palmas de Gran Canaria, Spain, 2006