

## Assoc. Prof. EMRE ALPMAN

### Personal Information

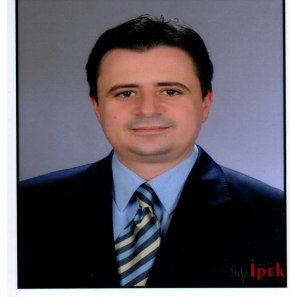
**Birthyear:** 1977

**Place of birth:** Ankara

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**Post Address:** Makine Mühendisliği Bölümü, Marmara Üniversitesi Göztepe Yerleşkesi, Kadıköy, İstanbul, 34722



### Biography

Dr. Emre Alpman was born in 1977 in Ankara Turkey. He graduated from Gazi Anatolian High School in 1995. He then attended the Aeronautical Engineering Department of Middle East Technical University and graduated with the first rank in 1999. He received his M.Sc. degree from the same department in 2001. In 2002 he joined the Aerospace Engineering Department of the Pennsylvania State University for a Ph.D. degree, which he received in 2006. In December 2006 he joined the Mechanical Engineering Department of Marmara University as an Assistant Professor. He was qualified for the Associate Professor degree in October 2013. He continues to work as a faculty member in the Mechanical Engineering Department of Marmara University.

### Education Information

Doctorate, Pennsylvania State University, Aerospace Engineering, United States Of America 2002 - 2006

Post Graduate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Havacılık Mühendisliği (Y) (Tezli), Turkey 1999 - 2001

Under Graduate, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık Ve Uzay Mühendisliği Bölümü, Turkey 1995 - 1999

### Foreign Languages

English, C1 Advanced

### Research Areas

Mechanical Engineering, Energy, Thermodynamics

### Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2014 - Continues

Assistant Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2006 - 2014

### Professional Experience

MÜDEK Komisyonu başkanı, Marmara University, Faculty of Engineering, Mechanical Engineering, 2014 - Continues

Deputy Head of Department, Marmara University, Faculty of Engineering, Mechanical Engineering, 2014 - 2017

Farabi Coordinator, Marmara University, Faculty of Engineering, Mechanical Engineering, 2012 - 2017

Erasmus Coordinator, Marmara University, Faculty of Engineering, Mechanical Engineering, 2009 - 2017

## Courses

Fluid Mechanics, Under Graduate, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020  
Mechanical Engineering Laboratory, Under Graduate, 2018 - 2019  
Engineering Project 2, Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019  
Compressible Fluid Flow, Under Graduate, 2017 - 2018, 2018 - 2019  
Computer Programing , Under Graduate, 2007 - 2008, 2008 - 2009, 2018 - 2019, 2019 - 2020  
Engineering Project 1, Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020  
Linear Algebra, Under Graduate, 2007 - 2008, 2008 - 2009

## Advising Theses

Alpman E., Namlı O. C. , Aerodynamic optimization of axial fan with morphing blades, Post Graduate, O.FIRAT(Student), Continues  
Alpman E., Az Maliyetli Küçük Ölçekli Uçan bir Rüzgar Türbininin Çoklu Parametre Optimizasyonu, Doctorate, A.Emrah(Student), Continues  
Alpman E., Onat A., The design, development and analysis of a hybrid household refrigerator combining thermoelectric and vapour compression cooling systems, Doctorate, E.SÖYLEMEZ(Student), 2018  
ALPMAN E., Extending current techniques for electrical layout optimization of onshore wind farms considering 3d model of the terrain, Post Graduate, K.DEVECİ(Student), 2018  
ALPMAN E., Centrifugal pump design and performance optimization using loss correlations, Post Graduate, O.MERCAN(Student), 2018  
ALPMAN E., Experimental and theoretical investigation of fluidized bed gasification with cold and hot systems, Doctorate, S.GÜL(Student), 2017  
ALPMAN E., Prediction and improvement of wind turbine acoustics for aerodynamic noise reduction, Doctorate, A.ALPER(Student), 2016  
ALPMAN E., A transport equation model for the residual stress tensor in large eddy simulation of axial turbine flows, Doctorate, S.ABDALLAH(Student), 2014  
ALPMAN E., Experimental analysis of thermosiphon solar hot water heater including simulation model validation, Post Graduate, M.ASLAN(Student), 2011  
ALPMAN E., Aerodynamic analysis and performance predictions for wind turbines, Post Graduate, M.EREN(Student), 2010

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **A Genetic Algorithm Based Multi-Objective Optimization of Squealer Tip Geometry in Axial Flow Turbines: A Constant Tip Gap Approach**  
Maral H., Senel C. B. , Deveci K., Alpman E., Kavurmacıoğlu L., Camcı C.  
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.142, 2020 (Journal Indexed in SCI)
- **A genetic algorithm based aerothermal optimization of tip carving for an axial turbine blade**  
Maral H., Alpman E., Kavurmacıoğlu L., Camcı C.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.143, 2019 (Journal Indexed in SCI)
- **Numerical (CFD) and experimental analysis of hybrid household refrigerator including thermoelectric and vapour compression cooling systems**  
Soylemez E., Alpman E., Onat A., Yukselenturk Y., Hartomacıoğlu S.  
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.99, pp.300-315, 2019 (Journal Indexed in SCI)
- **Experimental analysis of hybrid household refrigerators including thermoelectric and vapour compression cooling systems**

Soylomez E., Alpman E., Onat A.

INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.95, pp.93-107, 2018 (Journal Indexed in SCI)

- **Multiobjective aerodynamic optimization of a microscale ducted wind turbine using a genetic algorithm**  
ALPMAN E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, pp.618-629, 2018 (Journal Indexed in SCI)
- **SITE-SPECIFIC OPTIMIZATION OF A SMALL-SCALE HORIZONTAL AXIS WIND TURBINE VIA MICRO GENETIC ALGORITHM**  
ALPMAN E., Kimilli M. O. , Erisik A., Sahin E.  
ISIBILIMIVE TEKNIGIDERGIS-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.34, pp.123-135, 2014 (Journal Indexed in SCI)
- **AN APPLICATION OF RUNGE-KUTTA DISCONTINUOUS GALERKIN METHOD FOR FLOWS WITH STRONG DISCONTINUITIES**  
Alpman E.  
ISIBILIMIVE TEKNIGIDERGIS-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.33, pp.165-175, 2013 (Journal Indexed in SCI)
- **BLAST WAVE SIMULATIONS USING EULER EQUATIONS AND ADAPTIVE GRIDS**  
Alpman E.  
ISIBILIMIVE TEKNIGIDERGIS-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, pp.1-9, 2012 (Journal Indexed in SCI)
- **MATHEMATICAL MODELING AND SIMULATION OF THE PREHEATING ZONE OF A TUNNELKILN**  
MANÇUHAN E., KÜÇÜKADA K., ALPMAN E.  
ISIBILIMIVE TEKNIGIDERGIS-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.31, pp.79-86, 2011 (Journal Indexed in SCI Expanded)
- **EFFECT OF THE FLOW CONDITIONS AND VALVE SIZE ON BUTTERFLY VALVE PERFORMANCE**  
Sandalci M., MANÇUHAN E., ALPMAN E., KÜÇÜKADA K.  
ISIBILIMIVE TEKNIGIDERGIS-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.30, pp.103-112, 2010 (Journal Indexed in SCI)
- **An unstructured grid Reynolds stress model for separated turbulent flow simulations**  
ALPMAN E., Long L. N.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, vol.23, pp.377-389, 2009 (Journal Indexed in SCI)
- **Understanding ducted-rotor antitorque and directional control characteristics part II: Unsteady simulations**  
ALPMAN E., LONG L. N. , Kothmann B.  
JOURNAL OF AIRCRAFT, vol.41, pp.1370-1378, 2004 (Journal Indexed in SCI)
- **Understanding ducted-rotor antitorque and directional control characteristics - Part I: Steady-state simulation**  
ALPMAN E., LONG L. N. , Kothmann B.  
JOURNAL OF AIRCRAFT, vol.41, pp.1042-1053, 2004 (Journal Indexed in SCI)
- **Frequency domain prediction of turbofan noise radiation**  
ÖZYÖRÜK Y., ALPMAN E., Ahuja V., Long L. N.  
Journal Of Sound And Vibration, vol.270, pp.933-950, 2004 (Journal Indexed in SCI Expanded)

## Articles Published in Other Journals

- **LARGE EDDY SIMULATION AND AEROACOUSTIC ANALYSIS FOR SIMPLE EXPANSION SILENCER LIKE GEOMETRIES**  
ALPMAN E.  
International Journal of Advances on Automotive and Technology, vol.2, pp.168-174, 2018 (Refereed Journals of Other Institutions)
- **AEROTHERMAL OPTIMIZATION OF SQUEALER GEOMETRY IN AXIAL FLOW TURBINES USING**

## GENETIC ALGORITHM

Deveci K., Maral H., Senel C. B. , Alpman E., Kavurmacioğlu L., Camci C.

JOURNAL OF THERMAL ENGINEERING, vol.4, pp.1896-1911, 2018 (Journal Indexed in ESCI)

- **Havacılıkta Sürdürülebilir Gelişme Göstergeleri**

ALPMAN E., Göğüş A. Y.

Sürdürülebilir Havacılık Araştırmaları Dergisi (SÜHAD), vol.2, pp.1-12, 2017 (Other Refereed National Journals)

- **Prediction of Horizontal Axis Wind Turbine Acoustics**

KURULTAY A. A. , ALPMAN E.

Marmara Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, pp.35-48, 2016 (Other Refereed National Journals)

- **AERODYNAMIC PERFORMANCE OF SMALL-SCALE HORIZONTAL AXIS WIND TURBINES UNDER TWO DIFFERENT EXTREME WIND CONDITIONS**

ALPMAN E.

JOURNAL OF THERMAL ENGINEERING, vol.1, pp.420-432, 2015 (Journal Indexed in ESCI)

- **Computational Studies of Horizontal Axis Wind Turbines Using Advanced Turbulence Models**

KODY S., ALPMAN E., YILMAZ B.

MARMARA UNIVERSITY JOURNAL OF SCIENCE, vol.26, pp.36, 2014 (Other Refereed National Journals)

- **Akış koşulları ve vana çapının kelebek vana performans katsayılarına etkisi**

MANÇUHAN E., ALPMAN E., KÜÇÜKADA K.

Tesisat Mühendisliği, pp.53-61, 2009 (Other Refereed National Journals)

## Book & Book Chapters

- **in: Multidisciplinary Approaches to Sustainability**

Alpman E.

Effect of Non-Uniform Wake on the Exergy Efficiency Calculations for Wind Turbines, S. Sinan Keskin, Müge Leyla Yıldız, Refika Bakoğlu, Editor, IJOPEC Publication, London, pp.85-99, 2017

- **in: Towards 100 Renewable Energy: Techniques, Costs and Regional Case-Studies**

ALPMAN E., Canal Z., Baysal İ.

Aerodynamic and Performance Analysis of Drag-Driven Vertical-Axis Wind Turbines, Prof. Dr. Tanay S. Uyar, Editor, Springer, pp.227-232, 2017

- **in: Advances in Modeling of Fluid Dynamics**

Alpman E.

Blast Wave Simulations with a Runge-Kutta Discontinuous Galerkin Method, Prof. Dr. Chaoqun Liu, Editor, InTech, London, pp.229-254, 2012

## Refereed Congress / Symposium Publications in Proceedings

- **FLUTTER ANALYSIS AT TRANSONIC SPEEDS USING A COUPLED CFD-CSD SOLVER**

Alpman E., Kavurmacioğlu L. A. , Eken S.

10th Ankara International Aerospace Conference, Ankara, Turkey, 18 - 20 Eylül 2019, pp.1

- **LARGE EDDY SIMULATION OF A DUCTED WIND TURBINE FOR AEROACOUSTIC PREDICTIONS**

Alpman E., Kavurmacioğlu L. A.

10th Ankara International Aerospace Conference, Ankara, Turkey, 18 - 20 Eylül 2019, pp.1

- **Exergy Analysis of a Hybrid Household Refrigerator Including a Thermoelectric Cooling System**

Alpman E., Onat A., Söylemez E.

22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 Eylül 2019, pp.1

- **Performance Improvement of an Axial Fan by Morphing Its Blades via Shape Memory Alloys**

Alpman E., Kaplan B. M. , Akpınar M. S. , Namlı O. C.

22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 Eylül 2019, pp.1

- **Aerodynamic Performance of a Small Scale Vertical Axis Wind Turbine Under Unsteady Wind Conditions**

Alpman E., Kavurmacioğlu L. A.

22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 Eylül 2019, pp.1

- **Açık Kaynak Kodlu Hesaplamalı Akışkanlar Dinamiği ile Borularda Su Darbesi Analizi**  
İstanbul A., ALPMAN E.  
14. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 16 - 20 Nisan 2019
- **Deniz Pervanesi Kaviteasyon Gürültüsünün Hesaplamalı Akışkanlar Dinamiği ile İncelenmesi**  
ALPMAN E., KAVURMACIOĞLU L. A.  
14. Ulusal Tesisat Mühendisliği Kongresi, Turkey, 16 - 20 Nisan 2019
- **Aeroacoustic Analysis of an Air-Reed Instrument Using Large Eddy Simulation**  
ALPMAN E., SÖYLEMEZ E.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19 - 21 Aralık 2018
- **A DEPLOYMENT OF FILM COOLING HOLES ON A SQUEALER TURBINE BLADE TIP**  
Yıldız F., Alpmann E., Kavurmaccioğlu L. A.  
International Symposium on Aircraft Technology, MRO Operations, İstanbul, Turkey, 25 - 28 Kasım 2018
- **IMPROVED DELAYED DETACHED EDDY SIMULATION OF DEEP CAVITIES AT SUBSONIC FLOW CONDITIONS**  
Tüzüner B., ALPMAN E., KAVURMACIOĞLU L. A.  
1st International Conference on Advances in Mechanical and Mechatronics Engineering, 8 - 09 Kasım 2018
- **Application of Variable Pitching to the Blades of a Vertical Axis Wind Turbine for Performance Improvement**  
ALPMAN E.  
1st International Conference on Advances in Mechanical and Mechatronics Engineering (ICAMMEN 2018), 8 - 09 Kasım 2018
- **THE EFFECT OF PLACING VORTEX GENERATORS ON THE SELF-STARTING PERFORMANCE OF DARRIEUS TYPE VERTICAL AXIS WIND TURBINE**  
Ghassembaglou N., ALPMAN E., KAVURMACIOĞLU L. A.  
Second International Congress on Multidisciplinary Studies, 4 - 05 Mayıs 2018
- **LARGE EDDY SIMULATION AND AEROACOUSTIC ANALYSIS FOR SIMPLE EXPANSION SILENCER LIKE GEOMETRIES**  
ALPMAN E.  
INTERNATIONAL CONFERENCE ON PROGRESSES IN AUTOMOTIVE TECHNOLOGIES 2018, 10 - 12 Mayıs 2018
- **Effect of Non-Uniform Wake on the Exergy Efficiency Calculations for Wind Turbines**  
ALPMAN E.  
2nd International Sustainability Congress (ICS 2017), İstanbul, Turkey, 26 - 28 Ekim 2017
- **Aerodynamic Optimization of Small Scale Vertical Axis Wind Turbines for Maximum Exergy Efficiency**  
ALPMAN E.  
2nd International Sustainability Congress (ICS 2017), İstanbul, Turkey, 26 - 28 Ekim 2017
- **A Multi-Criteria Renewable Energy Diffusion Model for Turkey**  
DEVECİ K., ALPMAN E.  
II. International Energy Raw Materials and Energy Summit (INERMA), İstanbul, Turkey, 27 - 30 Eylül 2017
- **Wind Farm Line Optimization: A First Step from Theory to Application**  
DEVECİ K., ALPMAN E., BARUTÇU B.  
II. International Energy Raw Materials and Energy Summit (INERMA), İstanbul, Turkey, 27 - 30 Eylül 2017
- **A Multiobjective Aerodynamic Optimization of A Micro Scale Vertical Axis Wind Turbine**  
Usanmaz H., ALPMAN E.  
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **Aerothermal Optimization of Squealer Geometry in Axial Flow Turbines using Genetic Algorithm**  
DEVECİ K., MARAL H., ŞENEL C. B., ALPMAN E., KAVURMACIOĞLU L. A.  
International Conference on Advances in Science ICAS 2016, 02 Eylül 2016
- **Aerodynamic Performance of Small Scale Horizontal Axis Wind Turbines under Extreme Wind Conditions**  
ALPMAN E.  
Energy Technologies Conference, ENTECH '14, 22 - 24 Aralık 2014

- **Large Eddy Simulation of Turbulent Flows around a Horizontal Axis Wind Turbine using Different Sub Grid Scale Models**  
KODY S. A. K. , ALPMAN E., YILMAZ B.  
International Conference on Wind Energy Science and Technology, RUZGEM 2013, 3 - 04 Ekim 2013
- **Effect of the Presence of a Duct on the Performance of Small Scale Wind Turbines**  
LALOĞLU Ç., ÖZTÜRK U., ALPMAN E.  
10th EAWE Ph.D. Seminar on Wind Energy in Europe, 01 Ekim 2014
- **Effect of Selection of Design Parameters on the Optimization of a Horizontal Axis Wind Turbine via Genetic Algorithm**  
Alpman E.  
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 Haziran 2014, vol.524
- **Rüzgar Türbin Kanatlarının Aeroelastik Etkileri de Kapsayan Aerodinamik En İyileştirilmesi**  
KAPSAL Y., ALPMAN E.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 9 - 12 Eylül 2013
- **Computational Studies of Horizontal Axis Wind Turbines using Advanced Turbulence Models**  
KODY S. A. K. , ALPMAN E., YILMAZ B.  
Proceedings of the Fourth International Conference on Mathematical and Computational Applications, 11 - 13 Haziran 2013
- **Horizontal Axis Wind Turbine Design Using Genetic Algorithm**  
KIMILLI M. O. , ERİŞİK A., ŞAHİN E., ALPMAN E.  
2nd International 100% Renewable Energy Conference and Exhibition (IRENEC 2012), 28 - 30 Haziran 2012
- **Effect on Number of Blades on the Performance of a Darrieus Type Vertical Axis Wind Turbine**  
ERMİŞ H. M. A. , ALPMAN E.  
1st International 100% Renewable Energy Conference and Exhibition (IRENEC 2011), 6 - 08 Ekim 2011
- **Aerodynamic and Performance Analysis of Drag Driven Vertical Axis Wind Turbines**  
ALPMAN E., CANAL Z., BAYSAL İ.  
1st International 100% Renewable Energy Conference and Exhibition (IRENEC 2011), 6 - 08 Ekim 2011
- **Exergy Analysis of Marmara University Engineering Faculty C Building**  
ÖZDEMİR M. R. , Alkan Ş., KALE S., Vural E., ALPMAN E.  
18. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 7 - 10 Eylül 2011
- **Tuğla Üretilen Tünel Kurutma ve Pişirme Fırınlarında Enerji ve Ekserji Analizi**  
MANÇUHAN E., ALPMAN E.  
18. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 7 - 10 Eylül 2011
- **AN APPLICATION OF DISCONTINUOUS GALERKIN METHOD FOR BLAST WAVE SIMULATIONS**  
Alpman E.  
10th ASME Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Turkey, 12 - 24 Temmuz 2010, pp.239-246
- **Blast Wave Simulations using Euler Equations and Adaptive Grids**  
ALPMAN E.  
5th Ankara International Aerospace Conference, 17 - 19 Ağustos 2009
- **Patlama Sonrası Oluşan Şok Dalgalarının Euler Denklemleri Kullanılarak Simülasyonu**  
ALPMAN E.  
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 24 - 27 Haziran 2009
- **Tünel Fırın Ön Isıtma Bölgesinin Matematiksel Modellenmesi ve Simülasyonu**  
KÜÇÜKADA K., MANÇUHAN E., ALPMAN E.  
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 24 - 27 Haziran 2009
- **Akış Koşulları ve Vana Çapının Kelebek Vana Performans Katsayılarına Etkisi**  
SANDALCI M., MANÇUHAN E., ALPMAN E., KÜÇÜKADA K.  
6. Pompa-Vana Kongresi, Turkey, 16 - 18 Ekim 2008
- **Effectiveness of advanced coating systems for mitigating blast effects on steel components**  
Chen C., Linzell D. G. , Alpman E., Long L. N.  
10th International Conference on Structures Under Shock and Impact, Algarve, Portugal, 01 Mayıs 2008, vol.98, pp.85-87

- **Analysis of Pilot Workload Due to Ship Airwake Disturbances Using Coupled Flight Dynamics and CFD Analysis**  
BRIDGES D. O. , HORN J. F. , ALPMAN E., LONG L. N.  
AIAA Atmospheric Flight Mechanics Conference, 20 - 23 Ağustos 2007
- **Coupled flight dynamics and CFD analysis of pilot workload in ship airwakes**  
Bridges D., Horn J. F. , ALPMAN E., Long L. N.  
AIAA Atmospheric Flight Mechanics Conference and Exhibit, 20 - 23 Ağustos 2007
- **Computational Studies of Polyurea Coated Steel Plate under Blast Loads**  
CHEN C. C. , LINZELL D. G. , LONG L. N. , ALPMAN E.  
9th US National Congress on Computational Mechanics, 23 - 26 Temmuz 2007
- **Prediction of Blast Loads on a Deformable Plate Using Euler Equations**  
ALPMAN E., LONG L. N. , CHEN C. C. , LINZELL D. G.  
AIAA 18th Computational Fluid Dynamics Conference, 25 - 28 Haziran 2007
- **Fully Coupled Simulations of the Rotorcraft Ship Dynamic Interface**  
ALPMAN E., LONG L. N. , BRIDGES D. O. , HORN J. F.  
AHS International 63rd Annual Forum and Display, 1 - 03 Mayıs 2007
- **Advanced Modeling and Control Design for Helicopter Shipboard Operations**  
HORN J. F. , BRIDGES D. O. , LONG L. N. , ALPMAN E.  
HeliJapan 2006 AHS International Meeting on Advanced Rotorcraft Technology and Life Saving Activities, 01 Ekim 2006
- **Unstructured Reynolds Stress Model Solutions for Turbulent Flow around a BELL 214ST Fuselage**  
ALPMAN E., LONG L. N.  
AHS International 61st Annual Forum and Display, 1 - 03 Haziran 2005
- **Separated Turbulent Flow Simulations Using a Reynolds Stress Model and Unstructured Meshes**  
ALPMAN E., LONG L. N.  
AIAA 43rd Aerospace Sciences Meeting and Exhibit, 10 - 13 Ocak 2005
- **Unsteady RAH 66 Comanche Flowfield Simulations including Fan in Fin**  
ALPMAN E., LONG L. N.  
AIAA 16th CFD Conference, 23 - 26 Haziran 2003
- **Toward a Better Understanding of Ducted Rotor Antitorque and Directional Control in Forward Flight**  
ALPMAN E., LONG L. N. , KOTHMANN B. D.  
AHS International 59th Annual Forum and Display, 6 - 08 Mayıs 2003
- **Frequency Domain Prediction of Turbofan Noise Radiation**  
ÖZYÖRÜK Y., ALPMAN E., AHUJA V., LONG L. N.  
AIAA Aeroacoustics Conference, 17 - 19 Haziran 2002

## Supported Projects

Alpman E., Kavurmacioğlu L. A. , Eken S., Project Supported by Other Official Institutions, SES-ÜSTÜ UÇAK TASARIMI İÇİN AKUSTİK VE AEROELASTİSİTE ÖZELLİKLERİNİ BÜTÜNLEŞTİREN ÇOK-DOĞRULUKLU VE ÇOK-DİSİPLİNLİ YÖNTEMLERİN GELİŞTİRİLMESİ, 2019 - 2020

Alpman E., Laloğlu Ç., Project Supported by Higher Education Institutions, MÜHENDİSLİK UYGULAMALARINDA KOMPLEKS AKIŞLAR İÇİN ÇÖZÜME UYARLANABİLEN AĞSIZ CFD YÖNTEMLERİ, 2015 - 2019

Alpman E., Yılmaz B., Project Supported by Higher Education Institutions, Küçük Ölçekli Rüzgar Türbini Konseptlerinin Şehir İçi Uygulamaları için Karşılaştırılması ve Optimizasyonu, 2014 - 2018

Alpman E., Kavurmacioğlu L. A. , Project Supported by Other Private Institutions, Mikro Ölçekli Rüzgar Türbini Ön Tasarımı, 2017 - 2017

Alpman E., Kavurmacioğlu L. A. , Ayder E., Maral H., Şenel C. B. , Deveci K., Camcı C., Project Supported by Other Official Institutions, GAZ TÜRBİNİ KANAT UCUNUN AERODİNAMİK ve TERMAL OPTİMİZASYONU, 2014 - 2017

Mançuhan E., Sayan P., Sargut S., Alpman E., Kiran B., Project Supported by Higher Education Institutions, Yaş Tuğla Kurutma Proseslerinde Optimum Koşulların Modellenmesi, 2010 - 2013

Alpman E., Project Supported by Higher Education Institutions, Rüzgar Türbini Aerodinamiği ve Akustiğinin Hesaplamalı Akışkanlar Mekaniği ile İncelenmesi ve Değişik Çalışma Koşulları ve Tasarım Parametreleri İçin Performans Analizi, 2010

- 2012

Alpman E., Küçükada K., Mançuhan E., Project Supported by Higher Education Institutions, Sürekli ve Yarı Sürekli Eşanlı Proseslerin Dinamik Simülasyonu ve Optimizasyonu, 2008 - 2011

## Activities in Scientific Journals

Journal of Thermal Engineering, Editor, 2019 - Continues

## Invited Congress and Symposium Activities

22nd Congress on Thermal Science and Technology, Working Group, Kocaeli, Turkey, 2019

10th Ankara International Aerospace Conference, Working Group, Ankara, Turkey, 2019

14. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, Working Group, İzmir, Turkey, 2019

4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, Working Group, İstanbul, Turkey, 2018

International Conference on Advances in Mechanical and Mechatronics Engineering, Working Group, Ankara, Turkey, 2018

2nd International Congress on Multidisciplinary Studies, Working Group, Adana, Turkey, 2018

International Conference on Progress in Automotive Technologies (ICPAT 2018), Working Group, İstanbul, Turkey, 2018

2nd International Sustainability Congress (ICS 2017), Working Group, İstanbul, Turkey, 2017

9th Ankara International Aerospace Conference, Working Group, Ankara, Turkey, 2017

## Citations

Total Citations (WOS):62

h-index (WOS):4

## Awards

Alpman E., Bölüm Birinciliği Ödülü, Ortadoğu Teknik Üniversitesi, June 1999