

## Prof. Hasan Güneş

### Personal Information

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### Education Information

Doctorate, Lehigh University, Makina Müh., United States Of America 1993 - 1997

Postgraduate, Lehigh University, Makina Müh., United States Of America 1991 - 1993

Undergraduate, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1985 - 1989

### Foreign Languages

English

### Research Areas

Technical Sciences, Mechanical Engineering, Energy, Fluid Mechanics, Fluid Machinery, Thermodynamics, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics

### Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2009 - Continues

Associate Professor, Istanbul Technical University, Makina, Makina Mühendisliği, 2004 - 2009

### Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Makine Fakültesi, 2014 - Continues

İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2011 - Continues

İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2011 - Continues

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

- I. **Experimental and numerical investigation of lubrication system for reciprocating compressor**  
Özspahi M., Kose H. A. , Çadırcı S., Kerpicci H., Güneş H.  
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.108, pp.224-233, 2019  
(Journal Indexed in SCI)
- II. **Numerical investigation of hydraulic and thermal performance of a honeycomb heat sink**  
ÖZSİPAHI M., SUBAŞI A., GÜNEŞ H., ŞAHİN B.  
International Journal Of Thermal Sciences, vol.134, pp.500-509, 2018 (Journal Indexed in SCI)

- III. **Performance evaluation of RANS-based turbulence models in simulating a honeycomb heat sink**  
Subaşı A., Özsipahi M., Sahin B., Güneş H.  
HEAT AND MASS TRANSFER, vol.53, no.7, pp.2435-2443, 2017 (Journal Indexed in SCI)
- IV. **A COMPARISON OF AN ANALYTICAL AND NUMERICAL FLOW MODEL FOR THE LUBRICATION SYSTEM OF A VARIABLE SPEED HERMETIC**  
ÖZSİPAHI M., ÇADIRCI S., Güneş H., Sarıoğlu K.  
ISI Bilimi ve Tekniği Dergisi-Journal of Thermal Science and Technology, vol.0, 2016 (Journal Indexed in SCI Expanded)
- V. **GEOMETRIC MODIFICATIONS TO MINIMIZE LIFT ACTING ON A SIMPLIFIED FRONT WINDSHIELD WIPER BLADE**  
ÇADIRCI S., Ak S. E. , Selenbas B., Güneş H.  
ISI Bilimi ve Tekniği Dergisi-Journal of Thermal Science and Technology, vol.0, no.36, pp.103-109, 2016 (Journal Indexed in SCI Expanded)
- VI. **A comparison of an analytical and numerical flow model for the lubrication system of a variable speed hermetic compressor**  
Özsipahi M., Cadirci S., Gunes H., Sarioglu K.  
Isi Bilimi Ve Tekniği Dergisi/ Journal of Thermal Science and Technology, vol.36, no.2, pp.41-49, 2016 (Journal Indexed in SCI Expanded)
- VII. **EFFECTS OF WALL HEATING ON BOUNDARY LAYER TRANSITION OVER A FLAT PLATE**  
Subaşı A., Güneş H.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.35, no.1, pp.59-68, 2015 (Journal Indexed in SCI)
- VIII. **A numerical study on the lubrication system for a hermetic reciprocating compressor used in household refrigerators**  
Özsipahi M., CADIRCI S., Güneş H., SARIOGLU K., KERPICCI H.  
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.48, pp.210-220, 2014 (Journal Indexed in SCI)
- IX. **Optimization of a Profile Extrusion Die for Flow Balance**  
Yılmaz O., Güneş H., KIRKKOPRU K.  
FIBERS AND POLYMERS, vol.15, no.4, pp.753-761, 2014 (Journal Indexed in SCI)
- X. **Numerical investigation of a jet and vortex actuator in a cross flow boundary layer**  
Çadirci S., Güneş H., Rist U.  
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.44, pp.42-59, 2014 (Journal Indexed in SCI)
- XI. **Inverse design of a mixed convection problem via Proper Orthogonal Decomposition**  
Güneş H.  
Türk ısı Bilimi ve Tekniği Dergisi, vol.0, 2014 (Journal Indexed in SCI Expanded)
- XII. **HEAT TRANSFER ENHANCEMENT BEHIND A BACKWARD FACING STEP WITH ACTIVE FLOW CONTROL**  
Çadirci S., Güneş H.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.34, no.2, pp.129-141, 2014 (Journal Indexed in SCI)
- XIII. **Spatio temporal structures of buoyancy induced flow in a vertical channel**  
Güneş H.  
Numerical Heat Transfer Part A, vol.32, no.1, pp.51-62, 2014 (Journal Indexed in SCI)
- XIV. **Active flow control applications with a jet and vortex actuator in a laminar cross flow**  
Çadirci S., Güneş H., RIST U.  
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.39, pp.146-159, 2013 (Journal Indexed in SCI)
- XV. **On the use of kriging for enhanced data reconstruction in a separated transitional flat-plate boundary layer**  
Güneş H., RIST U.  
PHYSICS OF FLUIDS, vol.20, no.10, 2008 (Journal Indexed in SCI)

- XVI. **Spatial resolution enhancement/smoothing of stereo-particle-image-velocimetry data using proper-orthogonal-decomposition-based and Kriging interpolation methods**  
Gunes H., RIST U.  
PHYSICS OF FLUIDS, vol.19, no.6, 2007 (Journal Indexed in SCI)
- XVII. **Gappy data: To krig or not to krig?**  
Gunes H., SIRISUP S., KARNIADAKIS G.  
JOURNAL OF COMPUTATIONAL PHYSICS, vol.212, no.1, pp.358-382, 2006 (Journal Indexed in SCI)
- XVIII. **Proper orthogonal decomposition reconstruction of a transitional boundary layer with and without control**  
Gunes H., RIST U.  
PHYSICS OF FLUIDS, vol.16, no.8, pp.2763-2784, 2004 (Journal Indexed in SCI)
- XIX. **POD Reconstruction of a Transitional Boundary Layer with and without Control**  
Güneş H.  
PHYSICS OF FLUIDS, vol.16, pp.2763-2784, 2004 (Journal Indexed in SCI)
- XX. **Analytical solution of buoyancy driven flow and heat transfer in a vertical channel with spatially periodic boundary condition**  
Güneş H.  
HEAT AND MASS TRANSFER, vol.0, 2003 (Journal Indexed in SCI Expanded)
- XXI. **Three dimensional convective cooling in a vertical channel with flush mounted heat sources**  
Güneş H.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.46, no.5, pp.791-808, 2003 (Journal Indexed in SCI)
- XXII. **Low dimensional modeling of non isothermal twin jet flow**  
Güneş H.  
FLUID DYNAMICS RESEARCH, vol.30, no.1, pp.1-30, 2002 (Journal Indexed in SCI)
- XXIII. **Low-order dynamical models of thermal convection in high-aspect ratio enclosures**  
Gunes H.  
FLUID DYNAMICS RESEARCH, vol.30, no.1, pp.1-29, 2002 (Journal Indexed in SCI)
- XXIV. **A modeling approach to transitional channel flow**  
Güneş H.  
Computers and Fluids, vol.27, no.1, pp.121-136, 1998 (Journal Indexed in SSCI)
- XXV. **A Reduced Dynamical Model of Convective Flows in Tall Laterally Heated Cavities**  
LIAKOPOULOS A., BLYTHE P. A. , Güneş H.  
Proceedings: Mathematical, Physical and Engineering Sciences, vol.453, no.1958, pp.663-672, 1997 (Journal Indexed in SCI Expanded)
- XXVI. **Reduced dynamical models of nonisothermal transitional grooved-channel flow**  
Sahan R., LIAKOPOULOS A., Gunes H.  
PHYSICS OF FLUIDS, vol.9, no.3, pp.551-565, 1997 (Journal Indexed in SCI)
- XXVII. **Low-dimensional description of oscillatory thermal convection: The small Prandtl number limit**  
Gunes H., LIAKOPOULOS A., SAHAN R.  
THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS, vol.9, no.1, pp.1-16, 1997 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Mikrokanallarda cidar kayma gerilmesi ve basınç farkının sayısal olarak incelenmesi**  
Çadırcı S., Demir U., Birol S. Z. , Trabzon L., Güneş H.  
Pamukkale Üniversitesi Mühendislik Dergisi, vol.24, no.1, pp.19-24, 2018 (National Refreed University Journal)
- II. **Numerical investigation of wall shear stress and pressure difference in microchannels**  
Çadırcı S., Demir U., Birol S. Z. , Trabzon L., Güneş H.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK

BILIMLERİ DERGİSİ, vol.24, no.1, pp.19-24, 2018 (Journal Indexed in ESCI)

III. **Improving Aerodynamic Performance for a Reliable Wiper System**

Çadırcı S., AK S. E. , SELENBAS B., GUNES H.

INTERNATIONAL JOURNAL OF AUTOMOTIVE ENGINEERING AND TECHNOLOGIES, vol.6, no.1, pp.30-40, 2017

(Other Refereed National Journals)

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

- I. **On the CFD Modeling Approach of Lubrication System for a Hermetic Reciprocating Compressor: Sliding Mesh vs Moving Reference Frame**  
ÖZSİPAHI M., GÜNEŞ H., Kerpiççi H.  
24th International Compressor Engineering Conference, 9 - 12 July 2018
- II. **A conjugate heat transfer analysis of a hermetic reciprocating compressor**  
Dincer M., Sarioglu K., Gunes H.  
10th International Conference on Compressors and Their Systems, London, United Kingdom, 11 - 13 September 2017, vol.232
- III. **Numerical Investigation of Turbulent Flow over a Windscreen Wiper Blade**  
Çadırcı S., Özsipahi M., Coşkun U. C. , Selenbaş B., Güneş H.  
ASME 2016-International Mechanical Engineering Congress and Exposition (IMECE), Phoenix, United States Of America, 11 - 17 November 2016, pp.1
- IV. **Numerical and Analytical Investigation of Viscous Fluids in a Screw Extruder**  
Çadırcı S., Özsipahi M., Güneş H.  
ASME 2016-International Mechanical Engineering Congress and Exposition (IMECE), Phoenix, United States Of America, 11 - 17 November 2016, pp.1
- V. **Calibration of constant temperature anemometry with hot film probes for low speed laminar water channel flows**  
SUBAŞI A., DOMINIK P., GÜNEŞ H., ULRICH R.  
13th International Symposium on Fluid Control, Measurement and Visualization, Doha, Qatar, 15 - 18 November 2015
- VI. **A Computational Study on Pressure Drop and Shear Stress in Microchannels for Cell Behaviour**  
UFUK D., ÇADIRCI S., GÜNEŞ H., TRABZON L., ZUHAL B.  
RS Microfluidics Conference, Bilbao, Spain, 4 - 06 November 2015, pp.221
- VII. **Active Flow Control Behind a Backward Facing Step Using A Zero-Net-Mass-Flux System**  
COŞKUN U. C. , ÇADIRCI S., GÜNEŞ H.  
Proceedings of the 5th International Conference on Jets Wakes and Separated Flows ICJWSF2015, 15 - 18 June 2015
- VIII. **Active Flow Control behind a BFS Using a Zero-Net-Mass-Flux-System**  
Coşkun U. C. , Çadırcı S., Güneş H.  
Int. Conf. on Jets, Wakes and Separated Flows, Stockholm, Sweden, 16 - 18 June 2015, pp.1
- IX. **POD Analysis of Jet and Vortex Flows Induced by Oscillating Backward Facing Step**  
Çadırcı S., Özsipahi M., Güneş H.  
5th International Conference on Jets, Wakes and Separated Flows (ICJWSF), Stockholm, Sweden, 15 - 18 June 2015, vol.185, pp.249-257
- X. **A Numerical Model of Fluid Structure Interaction Of a Fluttering Valve**  
COŞKUN U. C. , GÜNEŞ H., SARIOĞLU K.  
Proceedings of the 5th International Conference on Jets Wakes and Separated Flows ICJWSF2015, 15 - 18 June 2015
- XI. **POD Analysis of Jet and Vortex Flows Induced by Oscillating BFS**  
Çadırcı S., Güneş H., Özsipahi M.  
Int. Conf. on Jets, Wakes and Separated Flows, Stockholm, Sweden, 16 - 18 June 2015, pp.1

- XII. **Experimental Investigation of Oil Flowrate in a Hermetic Reciprocating Compressor**  
Çadırcı S., Güneş H., Kerpiççi H.  
ESDA2014-20044, Proceedings of the ASME 2014 12th Biennial Conference on Engineering System Design and Analysis ESDA2014, Copenhagen, Denmark, 25 - 27 June 2014, pp.1
- XIII. **A Parametric Investigation of Jet and Vortex Actuator**  
Çadırcı S., Güneş H.  
Proceedings of the ASME 2014 12th Biennial Conference on Engineering System Design and Analysis ESDA2014, Copenhagen, Denmark, 25 - 27 June 2014, pp.1
- XIV. **Numerical Simulation of Lubrication System in a Hermetic Reciprocating Compressor**  
Özsipahi M., Çadırcı S., Güneş H., Kerpiççi H.  
ESDA2014-20044, Proceedings of the ASME 2014 12th Biennial Conference on Engineering System Design and Analysis ESDA2014, Copenhagen, Denmark, 25 - 27 June 2014, pp.1
- XV. **UNSTEADY FLOW SIMULATION IN SUCTION MUFFLER OF A HERMETIC RECIPROCATING COMPRESSOR**  
Coşkun U. C. , Güneş H., Sarioglu K., Kerpicci H.  
12th ASME Biennial Conference on Engineering Systems Design and Analysis (ESDA2014), Copenhagen, Denmark, 25 - 27 June 2014
- XVI. **Düz bir levha üzerinde cidardan yapılan ısıtmanın soğutmanın sınır tabaka geçişine etkisinin sayısal incelenmesi**  
SUBAŞI A., GÜNEŞ H.  
III. Havacılıkta İleri Teknolojiler Konferansı, İstanbul, Turkey, 18 - 20 June 2014
- XVII. **Numerical investigation of dual heater strips on boundary layer transition over a flat plate**  
SUBAŞI A., GÜNEŞ H.  
7th International Ege Energy Symposium Exhibition, Uşak, Turkey, 18 - 20 June 2014, pp.935-945
- XVIII. **Yersel Emme ve Üfleme ile Ters Basamak Ardındaki Akış Kontrolü ve Isı Transferinin İyileştirilmesi**  
Coşkun U. C. , Çadırcı S., Güneş H.  
III. Ulusal Havacılıkta İleri Teknolojiler Konferansı, HİTEK 2014, İstanbul, Turkey, 18 - 19 June 2014, pp.1
- XIX. **Control of boundary layer transition over a flat plate using discrete heater strips**  
SUBAŞI A., GÜNEŞ H.  
International Symposium on Convective Heat and Mass Transfer, Kuşadası-Aydın, Turkey, 8 - 13 June 2014
- XX. **Heat Transfer Enhancement behind a Backward Facing Step Using Localized Suction and Blowing**  
Coşkun U. C. , Çadırcı S., Güneş H.  
Proceedings of CONV-14, Int. Symp. on Convective Heat and Mass Transfer, Aydın, Turkey, 8 - 13 June 2014, pp.1
- XXI. **Boundary Layer Separation Control on an Inclined Plate Using Jet and Vortex Actuator**  
Çadırcı S., Güneş H.  
ASME 2013-International Mechanical Engineering Congress and Exposition (IMECE), San Diego, United States Of America, 15 - 21 November 2013, pp.1
- XXII. **Numerical Investigation of JaVA-Induced Flow in Quiescent Water**  
Çadırcı S., Güneş H., Rist U.  
ASME 2013-International Mechanical Engineering Congress and Exposition (IMECE), San Diego, United States Of America, 15 - 21 November 2013, pp.1
- XXIII. **Hermetik Bir Kompresördeki Yağ Devisinin Sayısal İncelenmesi**  
Özsipahi M., Çadırcı S., Güneş H., Sarioglu K., Kerpiççi H.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1
- XXIV. **Hermetik Bir Kompresördeki Yağ Devisinin Deneysel İncelenmesi**  
Taş S., Çadırcı S., Güneş H., Sarioglu K., Kerpiççi H.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1
- XXV. **Numerical Investigation of Oil Flow in a Hermetic Compressor**  
Özsipahi M., Çadırcı S., Güneş H., Kerpiççi H.  
Proceedings of the 2013 International Conference on Mechanics, Fluids, Heat, Elasticity and Electromagnetic Fields, Venedik, Italy, 1 - 02 January 2013, pp.1

- XXVI. **Experimental Investigation of Jet and Vortex Actuator Using Particle Image Velocimetry**  
Çadırcı S., Güneş H., Ulrich R.  
ASME 2012-International Mechanical Engineering Congress and Exposition (IMECE), Houston, United States Of America, 9 - 15 November 2012, pp.1
- XXVII. **EXPERIMENTAL INVESTIGATION OF A JET AND VORTEX ACTUATOR USING PARTICLE IMAGE VELOCIMETRY**  
Çadırcı S., Güneş H., Rist U., Peters B.  
ASME International Mechanical Engineering Congress and Exposition, Texas, United States Of America, 9 - 15 November 2012, pp.1177-1188
- XXVIII. **Active Flow Control with an Oscillating Backward Facing Step in a Shallow Open Channel**  
Çadırcı S., Güneş H.  
ASME 2012-International Mechanical Engineering Congress and Exposition (IMECE), Houston, United States Of America, 9 - 15 November 2012, pp.1
- XXIX. **Numerical Investigation of Jet and Vortex Actuator (JaVA) for Active Flow Control**  
ÇADIRCI S., GÜNEŞ H., RIST U.  
AIAA 5th Flow Control Conference, Chicago, Illinois, 28 June - 01 July 2010
- XXX. **Active Flow Control with an Oscillating Backward Facing Step**  
Çadırcı S., Güneş H.  
Proceedings of the ASME 2012 11th Biennial Conference on Engineering System Design and Analysis ESDA2012, Nantes, France, 2 - 04 June 2012, pp.1
- XXXI. **Optimization of a centrifugal fan impeller using Kriging-simulated annealing**  
Çadırcı S., Güneş H., Selenbaş B.  
ASME 2011-International Mechanical Engineering Congress and Exposition (IMECE), Denver, United States Of America, 11 - 17 November 2011, pp.1
- XXXII. **PROPER ORTHOGONAL DECOMPOSITON ANALYSIS OF JAVA FLOWS FOR CROSS-FLOW CONDITIONS**  
Çadırcı S., Güneş H.  
ASME International Mechanical Engineering Congress and Exposition (IMECE), Colorado, United States Of America, 11 - 17 November 2011, pp.871-878
- XXXIII. **Proper orthogonal decomposition analysis of JaVA flows for cross flow conditions**  
Çadırcı S., Güneş H.  
ASME 2011-International Mechanical Engineering Congress and Exposition (IMECE), Denver, United States Of America, 11 - 17 November 2011, pp.1
- XXXIV. **A Kriging-simulated annealing meta-algorithm for optimization of convective heat transfer in a grooved channel**  
Çadırcı S., Güneş H.  
ASME 2011-International Mechanical Engineering Congress and Exposition (IMECE), Denver, United States Of America, 11 - 17 November 2011, pp.1
- XXXV. **Flow visualizations of jet and vortex actuator under cross flow conditions**  
Çadırcı S., Güneş H., Rist U.  
7. International Conference on Computational Heat and Mass Transfer (ICCHMT), İstanbul, Turkey, 18 - 22 June 2011, pp.1
- XXXVI. **Flow separation control behind a backward facing step**  
Çadırcı S., Güneş H.  
7. International Conference on Computational Heat and Mass Transfer (ICCHMT), İstanbul, Turkey, 18 - 22 June 2011, pp.1
- XXXVII. **AN AERODYNAMIC DESIGN AND OPTIMIZATION OF A HEAVY TRUCK FOR DRAG REDUCTION**  
Selenbaş B., Güneş H., Gocmen K., Bahceci U., Bayram B.  
10th ASME Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Turkey, 12 - 24 July 2010, pp.121-129
- XXXVIII. **On the Use of POD Models for Convective Flow in a Grooved Channel**  
Çadırcı S., Güneş H.

- ESDA2010-24892, Proceedings of the ASME 2010 10th Biennial Conference on Engineering System Design and Analysis ESDA2010, İstanbul, Turkey, 12 - 14 June 2010, pp.1
- XXXIX. **Modeling and Inverse Design of Convective Heat Transfer in a Grooved Channel Using Proper Orthogonal Decomposition**  
Güneş H., Çadircı S.  
IMECE2009-10780, ASME International Mechanical Engineering Congress & Exposition, Orlando, United States Of America, 13 - 19 November 2009, pp.1
- XL. **Numerical Simulation of Mixed Convection in a Rectangular Cavity with Multiple Heat Sources**  
Güneş H., Çadircı S.  
IMECE2009-11472, ASME International Mechanical Engineering Congress & Exposition, Orlando, United States Of America, 13 - 19 November 2009, pp.1
- XLI. **DATA ENHANCEMENT, SMOOTHING, RECONSTRUCTION AND OPTIMIZATION BY KRIGING INTERPOLATION**  
Güneş H., Cekli H. E. , Rist U.  
2008 Winter Simulation Conference, Florida, United States Of America, 7 - 10 December 2008, pp.379-381
- XLII. **Taşınımla Isı Transferinin Kriging –Benzetilmiş Tavlama ile Modellenmesi ve Optimizasyonu**  
Güneş H., Çadircı S., Akgüç A.  
Bilimde Modern Yöntemler Sempozyumu, Eskişehir, Turkey, 15 - 17 October 2008, pp.1
- XLIII. **Akış Kontrolü İçin Jet ve Vorteks Aktüatör (JaVA) Akış Tiplerinin Deneysel İncelenmesi**  
Güneş H., Çadircı S., Rist U.  
II. Ulusal Havacılık ve Uzay Konferansı İTÜ, İstanbul, Turkey, 15 - 17 October 2008, pp.1
- XLIV. **Temporal Analysis of Jet and Vortex Actuator (JaVA)-induced Flows**  
Çadircı S., Güneş H., Rist U.  
International Conference on Jets, Wakes and Separated Flows, Berlin, Germany, 16 - 19 September 2008, pp.1
- XLV. **An Experimental Investigation of Jet and Vortex Actuator for Active Flow Control**  
Güneş H., Çadircı S., Rist U.  
4th AIAA Flow Control Conference / Actuator Induced Flow Types, Seattle, United States Of America, 23 - 26 June 2008, pp.1
- XLVI. **A reduced order model of a weakly confined twin jet flow and its stability analysis**  
GÜNEŞ H., KAVURMACIOĞLU L. A.  
ASME Fluid Engineering Division Summer Meeting, United States Of America, 29 May - 01 June 2001, pp.695-702
- XLVII. **Identification Of Coherent Structures in Driven Cavity Flows Using Proper Orthogonal Decomposition**  
GÜNEŞ H., KAVURMACIOĞLU L. A.  
International Symposium on Transport Phenomena, 3 - 05 April 1996, pp.203-208

## Supported Projects

- Çadircı S., Güneş H., TÜBİTAK International Bilateral Joint Cooperation Program Project, Uygun Soğutkan Karışımları ve Yağlar Kullanılarak Buzdolapları ve Isı Pompalı Kurutucularda Enerji Verimliliğinin Arttırılması (REFMIX), 2017 - 2020
- Güneş H., Project Supported by Higher Education Institutions, Kriging Interpolasyonu ile Verilerin Çözünürlüğünün Arttırılması, Düzgünleştirilmesi ve Optimizasyonu, 2008 - 2018
- Çadircı S., Trabzon L., Güneş H., TUBITAK Project, Mikroakışkan Sistemler Kullanılarak Mekanik Kuvvetlerin Endotel Hücre Davranışı Üzerine Etkilerinin Mekano biyolojik Odağında İncelenmesi, 2014 - 2017
- Çadircı S., Güneş H., Industrial Thesis Project, Silecek sistemlerinin yüksek hızlarda aerodinamik performanslarını arttıracak yeni spoiler tasarımı ve prototip üretimi, 2014 - 2016
- Güneş H., Industrial Thesis Project, Silecek Sistemlerinin Yüksek Hızlarda Aerodinamik Performanslarını Arttıracak Yeni Spoiler Tasarımı ve Prototip Üretimi, 2013 - 2016
- Güneş H., Project Supported by Higher Education Institutions, Buzdolabı Kompresörlerinde Kullanılan Emme Susturucusunun Hesaplamalı Akışkanlar Dinamiği (CFD) Analizleri ile İyileştirilmesi, 2013 - 2015

Çadircı S., Güneş H., Industrial Thesis Project, Buzdolaplarında Kullanılan Değişken Kapasiteli Hermetik Kompresörlerin Yeni Nesil Yağlama Sisteminin Tasarımı ve Prototip Üretimi, 2012 - 2014

Çadircı S., Güneş H., TÜBİTAK International Bilateral Joint Cooperation Program Project, Development and testing of a Jet and Vortex Actuator -JaVA- for active flow control, 2008 - 2011

Çadircı S., Güneş H., TUBITAK Project, Sayısal akışkanlar dinamiği problemlerinin optimizasyon analizlerinde POD ve Kriging yöntemlerinin kullanılması, 2009 - 2009

Güneş H., Project Supported by Higher Education Institutions, Deneysel Verilerin Filtrasyonu ve Çözünürlüğünün Ürttürülmesi :Kriging ve POD Yentemleri, 2006 - 2007

Güneş H., Project Supported by Higher Education Institutions, Akış Alanlarında Kayıp Verilerin Kriging ve POD Yöntemleriyle Belirlenmesi, 2004 - 2005

Güneş H., Project Supported by Higher Education Institutions, Momentum ve Enerji denklemleri için Düşük boyutlu Modeller Geliştirilmesi, 2000 - 2005

## Citations

Total Citations (WOS):225

h-index (WOS):10