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Education Information

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

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

Under Graduate, 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

Professional Experience

Vice Dean, İstanbul Teknik Üniversitesi, Makine Fakültesi, 2014 - Continues

Fakülte Yönetim Kurulu Üyesi, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2011 - Continues

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

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

- **Experimental and numerical investigation of lubrication system for reciprocating compressor**
Özsipahi M., Kose H. A. , Çadircı S., Kerpıccı H., Güneş H.
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- **Numerical investigation of hydraulic and thermal performance of a honeycomb heat sink**
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- International Journal Of Thermal Sciences, vol.134, pp.500-509, 2018 (Journal Indexed in SCI)
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 Subaşı A., Özsipahi M., Sahin B., Güneş H.
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A COMPARISON OF AN ANALYTICAL AND NUMERICAL FLOW MODEL FOR THE LUBRICATION SYSTEM OF A VARIABLE SPEED HERMETIC
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 ISI Bilimi ve Tekniği Dergisi-Journal of Thermal Science and Technology, vol.0, 2016 (Journal Indexed in SCI Expanded)
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 ÇADIRCI S., Ak S. E. , Selenbas B., Güneş H.
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 Özsipahi M., Cadirci S., Gunes H., Sarioglu K.
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- **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, pp.59-68, 2015 (Journal Indexed in SCI)
- **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)
- **Optimization of a Profile Extrusion Die for Flow Balance**
 Yilmaz O., Güneş H., KIRKKOPRU K.
 FIBERS AND POLYMERS, vol.15, pp.753-761, 2014 (Journal Indexed in SCI)
- **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)
- **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)
- **HEAT TRANSFER ENHANCEMENT BEHIND A BACKWARD FACING STEP WITH ACTIVE FLOW CONTROL**
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 Güneş H.
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- **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, 2008 (Journal Indexed in SCI)
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, 2007 (Journal Indexed in SCI)
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Gunes H., SIRISUP S., KARNIADAKIS G.
- JOURNAL OF COMPUTATIONAL PHYSICS, vol.212, pp.358-382, 2006 (Journal Indexed in SCI)
Proper orthogonal decomposition reconstruction of a transitional boundary layer with and without control
Gunes H., RIST U.
- PHYSICS OF FLUIDS, vol.16, pp.2763-2784, 2004 (Journal Indexed in SCI)
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A modeling approach to transitional channel flow
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A Reduced Dynamical Model of Convective Flows in Tall Laterally Heated Cavities
LIAKOPOULOS A., BLYTHE P. A. , Güneş H.
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- **Reduced dynamical models of nonisothermal transitional grooved-channel flow**
Sahan R., LIAKOPOULOS A., Gunes H.
- PHYSICS OF FLUIDS, vol.9, pp.551-565, 1997 (Journal Indexed in SCI)
Low-dimensional description of oscillatory thermal convection: The small Prandtl number limit
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THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS, vol.9, pp.1-16, 1997 (Journal Indexed in SCI)

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- **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, pp.19-24, 2018 (National Refreed University Journal)
- **Numerical investigation of wall shear stress and pressure difference in microchannels**
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BILIMLERI DERGISI, vol.24, pp.19-24, 2018 (Journal Indexed in ESCI)

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, pp.30-40, 2017 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

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

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

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

Numerical and Analytical Investigation of Viscous Fluids in a Screw Extruder

Çadırcı S., Özsipahi M., Güneş H.

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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

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

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

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

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

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

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

● **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

● **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

● **Numerical Simulation of Lubrication System in a Hermetic Reciprocating Compressor**

Özsipahi M., Çadırcı S., Güneş H., Kerpiççi H.

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● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **Hermetik Bir Kompresördeki Yağ Debrisinin 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

● **Hermetik Bir Kompresördeki Yağ Debrisinin 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

● **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

● **Experimental Investigation of Jet and Vortex Actuator Using Particle Image Velocimetry**

Çadircı 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

● **EXPERIMENTAL INVESTIGATION OF A JET AND VORTEX ACTUATOR USING PARTICLE IMAGE VELOCIMETRY**

Çadircı 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

● **Active Flow Control with an Oscillating Backward Facing Step in a Shallow Open Channel**

Çadircı S., Güneş H.

ASME 2012-International Mechanical Engineering Congress and Exposition (IMECE), Houston, United States Of America, 9 - 15 November 2012, pp.1

● **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

● **Active Flow Control with an Oscillating Backward Facing Step**

Çadircı 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

● **Optimization of a centrifugal fan impeller using Kriging-simulated annealing**

Çadircı S., Güneş H., Selenbaş B.

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● **PROPER ORTHOGONAL DECOMPOSITION ANALYSIS OF JAVA FLOWS FOR CROSS-FLOW CONDITIONS**

Çadircı S., Güneş H.

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● **A Kriging-simulated annealing meta-algorithm for optimization of convective heat transfer in a grooved channel**

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● **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

● **On the Use of POD Models for Convective Flow in a Grooved Channel**

Çadircı 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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **A reduced order model of a weakly confined twin jet flow and its stability analysis**

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● **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., TUBİTAK 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

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Citations

Total Citations (WOS):220

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