

# Prof. MEHMET CEVDET ÇELENLİGİL

## Personal Information

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## Education Information

Doctorate, Princeton University, Mechanical And Aerospace Engineering Department, United States Of America 1978 - 1982

Undergraduate, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, Turkey 1970 - 1976

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Numerical Solution of Incompressible Planar Turbulent Separated Flows, Princeton University, Mechanical And Aerospace Engineering Department, 1982

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1998 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1991 - 1998

Associate Professor, Massachusetts Institute of Technology, Mühendislik Fakültesi, Materials Science And Engineering, 1996 - 1997

Associate Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1990 - 1991

Assistant Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1990 - 1990

Research Assistant, Imperial College of Science, Technology and Medicine, Mühendislik Fakültesi, Aeronautics, 1983 - 1986

Research Assistant, Princeton University, Mühendislik Fakültesi, Mechanical And Aerospace Engineering, 1976 - 1981

## Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1995 - 1996

## Advising Theses

- ÇELENLİGİL M. C., Numerical simulation of two-dimensional collisionless plasma flows under the effect of electrostatic forces via particle in cell method, Postgraduate, Ö.TÜMÜKLÜ(Student), 2013
- ÇELENLİGİL M. C., Effects of extrapolation boundary conditions on subsonic mems flows over a flat plate, Postgraduate, Ö.Hulusi(Student), 2006
- ÇELENLİGİL M. C., Perfect gas navier-stokes solutions hypersonic boundary layer and compression corner flows, Doctorate, Ş.Aziz(Student), 2005

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

- I. **A Monte Carlo-based Poisson's equation solver parallelized with Coarray Fortran**  
ŞENGİL N., Tumuklu O., ÇELENLİGİL M. C.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.5, pp.4545-4553, 2016 (SCI-Expanded)
- II. **Implementation of a Monte Carlo method to a two-dimensional particle-in-cell solver using algebraic meshes**  
ŞENGİL N., Tumuklu O., Celenligil M. C.  
NUKLEONIKA, vol.57, no.2, pp.313-316, 2012 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Heat Transfer Simulation of Rarefied Laminar Flow past a Circular Cylinder**  
ÇELENLİGİL M. C.  
30th International Symposium on Rarefied Gas Dynamics (RGD), Victoria, Canada, 10 - 15 July 2016, vol.1786
- II. **Numerical Simulation of Rarefied Laminar Flow past a Circular Cylinder**  
Celenligil M. C.  
29th International Symposium on Rarefied Gas Dynamics (RGD), Xian, China, 13 - 18 July 2014, vol.1628, pp.220-227
- III. **On the Outflow Boundary Conditions for Subsonic Rarefied External Flows**  
Celenligil M. C.  
28th International Symposium on Rarefied Gas Dynamics (RGD), Zaragoza, Spain, 9 - 13 July 2012, vol.1501, pp.549-556
- IV. **Rarefaction Effects on the Outflow Boundary Conditions for External Subsonic Flows**  
Celenligil M. C.  
26th International Symposium on Rarefied Gas Dynamics (RGD26), Kyoto, Japan, 20 June - 25 July 2008, vol.1084, pp.317-322
- V. **DSMC Simulations of low-density choked flows in parallel-plate channels**  
Ilgaz M., Celenligil M.  
23rd International Symposium on Rarefied Gas Dynamics, WHISTLER, Canada, 20 - 25 July 2002, vol.663, pp.831-838
- VI. **RAREFIED FLOW SIMULATIONS ABOUT A BLUNT-ENDED CYLINDER AT INCIDENCE**  
CELENLIGIL M.  
18th International Symposium on Rarefied Gas Dynamics, Vancouver, Canada, 26 - 30 July 1992, vol.160, pp.323-330

## **Metrics**

Publication: 8

Citation (WoS): 23

Citation (Scopus): 1

H-Index (WoS): 2

H-Index (Scopus): 1