

# Prof. NECİBE FÜSUN OYMAN SERTELLER

## Personal Information

Email: fserteller@marmara.edu.tr

## Education Information

Doctorate, Marmara University, Faculty of Technical Education, Electric Education, Turkey 1996 - 2000

Post Graduate, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, Turkey 1992 - 1996

Under Graduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1983 - 1988

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Kafesli Asenkron Makinalarda Zaman Harmonik Etkilerinin Oluk Tasarımı ile azaltılmasına katkılar, Marmara Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2000

Post Graduate, Reaktörlerde Kullanılan Transformatörlerde Isı Dağılımının İncelenmesi, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1996

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Professor, Marmara University, Faculty of Technology, Elektrik Ve Elektronik Mühendisliği Bölümü, 1992 - Continues

## Professional Experience

Erasmus Coordinator, Marmara University, Faculty of Technology, Elektrik Ve Elektronik Mühendisliği Bölümü, 2014 - Continues

## Jury Memberships

Competition, Necibe fusun oyman serteller/TÜBİTAK 2204 B Ortaokul Öğrencileri Araştırma Projeleri Bölge Yarışması, Marmara University, March, 2020

Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, February, 2020

Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, September, 2018

Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, April, 2018

Appointment Academic Staff, Appointment Academic Staff, Marmara Üniversitesi, September, 2017

Appointment Academic Staff, Appointment Academic Staff, İstanbul Teknik Üniversitesi, September, 2017

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, January, 2016

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

- **Comparison the two Methods for Solving Partial Differential Equations in Electric**  
OYMAN SERTELLER N. F. , ÜSTÜNDAĞ D.  
Jokull, vol.65, pp.207-214, 2015 (Journal Indexed in SCI Expanded)
- **Speed Estimation of Brushless Direct Current (BLDC) Motor with Multilayer Perceptron**  
OYMAN SERTELLER N. F. , Bektas Y., Nogay S., AKINCI T. Ç.  
PRZEGLAD ELEKTROTECHNICZNY, vol.88, pp.255-260, 2012 (Journal Indexed in SCI)
- **A basic introduction to finite element methods for solving electrical problems**  
Serteller N. F.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART B-SOCIAL AND EDUCATIONAL STUDIES, vol.3,  
pp.487-496, 2011 (Journal Indexed in SCI)
- **Brushless direct current (BLDC) motor driving experimental set**  
Bektas Y., OYMAN SERTELLER N. F.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.27,  
pp.455-466, 2011 (Journal Indexed in SCI)
- **Experimental Study of Moment Method for Undergraduates in Electromagnetic**  
Serteller N. F. , Ak A., Koçyiğit G., Akıncı T. Ç.  
ELEKTRONIKA IR ELEKTROTECHNIKA, pp.115-118, 2011 (Journal Indexed in SCI)
- **Thermal analysis of ferromagnet actuator by finite element method**  
Serteller F., Atalay M.  
PHYSICA B-CONDENSED MATTER, vol.372, pp.366-368, 2006 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Teaching Electromagnetic Problems with mathematica**  
OYMAN SERTELLER N. F. , ÜSTÜNDAĞ D.  
Spectrum(Educational Research Services), 2017 (Refereed Journals of Other Institutions)
- **Numerical Solution of Energy Transmission Lines Equivalent Circuit Equations with Adomian Decomposition Method**  
Oyman Serteller N. F. , Üstündağ D.  
Journal of Applied Nonlinear Dynamics, vol.1, pp.65-71, 2016 (Refereed Journals of Other Institutions)
- **Computational Techniques to Solve Electromagnetic Problems by Using FEM**  
Oyman Serteller N. F. , Üstündağ D.  
WSEAS Transactions on Electronics, vol.5, pp.166-175, 2008 (International Conference Book)

## Refereed Congress / Symposium Publications in Proceedings

- **Understanding the Foundations of Electromagnetic Field Theory with Computer Software**  
Serteller N. F. , Kari G.  
10th IEEE Global Engineering Education Conference (EDUCON), Dubai, United Arab Emirates, 9 - 11 Nisan 2019,  
pp.755-760
- **Analysis of Dynamic Behavior of Direct Current Motor with Electrical Braking Techniques**  
OYMAN SERTELLER N. F. , ÜSTÜNDAĞ D.  
CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies  
(CHILECON), Pucon, Chile, 18 - 20 Ekim 2017
- **A Dynamic Analysis of BLDC Motor by Using Matlab/Simulink and Mathematica**  
Tatar G., TOKER K., OYMAN SERTELLER N. F. , KORKMAZ H.  
CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies  
(CHILECON), Pucon, Chile, 18 - 20 Ekim 2017
- **Teaching Electromagnetic Problems with Mathematica**  
OYMAN SERTELLER N. F. , ÜSTÜNDAĞ D.

The 4th. world Congress on Education Research (WCER2016), 6 - 08 Ekim 2016

- **Numerical Solution of Energy Transmission Lines Equivalent Circuit Equations with Adomian Decomposition Method**

Oyman Serteller N. F. , Üstündağ D.

The 3rd International Conference on Complex Dynamical Systems & Their Applications, Ankara, Turkey, 24 - 26 Kasım 2014

- **Examination of The Discharge of Gases Used in The Event of High Voltage**

DİNDAR T., OYMAN SERTELLER N. F. , GÖKMEN G., AKINCI T. Ç.

International Conference Engineering, Technologies and System , TECHSYS 2013, Plovdiv, Bulgaria, 29 - 31 Mayıs 2013

- **Numerical Analysis of Electrical System on High Voltage Medium**

OYMAN SERTELLER N. F. , ÜSTÜNDAĞ D.

the 16-th European Conference on Mathematics for Industry, 1 - 03 Haziran 2010

- **Brushless direct current (BLDC) machine Bipolar - Unipolar Driving Circuit education study**

Yan G., OYMAN SERTELLER N. F.

2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 Şubat 2010, vol.2, pp.2694-2699

- **Application of the boundary element method for heat distribution on ferromagnetic core**

Serteller F.

7th WSEAS International Conference on Application of Electrical Engineering, Trondheim, Norway, 2 - 04 Temmuz 2008, pp.137-138

- **Comparing program techniques in the solution of EM type problems using FEM**

Serteller N. F. , ÜSTÜNDAĞ D.

6th WSEAS International Conference on Applied Electromagnetics, Wireless and Optical Communications, Trondheim, Norway, 2 - 04 Temmuz 2008, pp.147-149

- **Design and control application of stepping motor for ventilating system**

Apaydm H., OYMAN SERTELLER N. F.

IEEE International Electric Machines and Drives Conference (IEMDC 2007), Antalya, Turkey, 3 - 05 Mayıs 2007, pp.1590-1591

- **Time harmonic effects for rotor slot design considering deep bar squirrel cage induction motors**

OYMAN SERTELLER N. F. , Mergen A. F. , Gizher E.

9th International Conference on Optimization of Electrical and Electronic Equipment, Brasov, Romania, 20 - 22 Mayıs 2004, pp.141-144

- **Dynamic behaviour model of permanent magnet synchronous motor fed by PWM inverter and fuzzy logic controller for stator phase current, flux and torque control of PMSM**

Guney I., Oguz Y., Serteller F.

IEEE International Electric Machines and Drives Conference, Cambridge, Canada, 17 - 20 Haziran 2001, pp.479-485

## Other Publications

- **Examination and Comparison of Nuclear Energy with other Available Energy Sources for Electricity Production in Turkey**

Oyman Serteller N. F.

Other, pp.38-42, 2017

- **The optimal hall sensor's position for brushless direct current machine: experimental study**

Oyman Serteller N. F.

Other, pp.218-225, 2016

- **Ferrofluid Application on a Permanent Magnet Direct Current (PMDC) Motor**

Oyman Serteller N. F.

Other, pp.361-378, 2014

## Citations

Total Citations (WOS):19

h-index (WOS):2