

## **Asst. Prof. ASLI TUNÇAY ATALAY**

### **Personal Information**

**Email:** asli.atalay@marmara.edu.tr

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### **Education Information**

Post Doctorate, Harvard University, School of Engineering and Applied Science, Wyss Institute, United States Of America  
2015 - 2017

Doctorate, The University of Manchester, School of Materials, Textile Technology, United Kingdom 2009 - 2014

Post Graduate, The University Of Bolton, United Kingdom 2008 - 2009

Under Graduate, Marmara University, Faculty of Technical Education, Textile Education, Turkey 2002 - 2006

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Development of Piezoelectric PVDF Sensor Integrated Textile Yarn, The University Of Manchester, 2014

Post Graduate, Fabrication and Performance of Ionic Polymer-Metal Composites (IPMC) for Medical Textiles, The  
University Of Bolton, 2009

### **Research Areas**

Technical Textiles

### **Academic Titles / Tasks**

Assistant Professor, Marmara University, Faculty Of Technology, Textile Engineering, 2020 - Continues

Research Assistant, Marmara University, Faculty Of Technology, Textile Engineering, 2014 - 2020

### **Courses**

Mühendisler için İstatistik, Under Graduate, 2020 - 2021

Dokusuz tekstil Yüzeyleri, Under Graduate, 2020 - 2021

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

- I. A Highly Sensitive Capacitive-Based Soft Pressure Sensor Based on a Conductive Fabric and a Microporous Dielectric Layer**

- Atalay Ö., TUNÇAY ATALAY A., Gafford J., Walsh C.  
ADVANCED MATERIALS TECHNOLOGIES, vol.3, no.1, 2018 (Journal Indexed in SCI)
- II. **Piezofilm yarn sensor-integrated knitted fabric for healthcare applications**  
Atalay A., Atalay O., Husain M. D. , Fernando A., Potluri P.  
JOURNAL OF INDUSTRIAL TEXTILES, vol.47, no.4, pp.505-521, 2017 (Journal Indexed in SCI)
- III. **A Highly Stretchable Capacitive-Based Strain Sensor Based on Metal Deposition and Laser Rastering**  
ATALAY Ö., ATALAY A., Gafford J., Wang H., Wood R., walsh c.  
ADVANCED MATERIALS TECHNOLOGIES, vol.2, no.9, 2017 (Journal Indexed in SCI)
- IV. **Batch Fabrication of Customizable Silicone-Textile Composite Capacitive Strain Sensors for Human Motion Tracking**  
ATALAY A., Sanchez V., ATALAY Ö., Vogt D. M. , Haufe F., Wood R. J. , walsh c.  
ADVANCED MATERIALS TECHNOLOGIES, vol.2, no.9, 2017 (Journal Indexed in SCI)
- V. **Development of test rig system for calibration of temperature sensing fabric**  
Husain M. D. , Atalay O., Atalay A., Kennon R.  
Autex Research Journal, vol.17, no.3, pp.219-228, 2017 (Journal Indexed in SCI)
- VI. **INVESTIGATION OF THE MECHANICAL TESTING CONDITIONS ON SENSING PROPERTIES OF TEXTILE-BASED STRAIN SENSOR**  
ATALAY Ö., ATALAY A., Husain M. D.  
Tekstil Ve Konfeksiyon, vol.27, pp.3-9, 2017 (Journal Indexed in SCI Expanded)
- VII. **Comparative study of the weft-knitted strain sensors**  
Atalay O., Tuncay A., Husain M. D. , Kennon W. R.  
JOURNAL OF INDUSTRIAL TEXTILES, vol.46, no.5, pp.1212-1240, 2017 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **MEKANİK TEST KOŞULLARININ TEKSTİL BAZLI UZAMA SENSÖRLERİNİN ALGILAMA ÖZELLİKLERİNE ETKİSİNİN İNCELENMESİ ÜZERİNE BİR ARAŞTIRMA**  
ATALAY Ö., ATALAY A., HUSAINMuhammad D.  
TEKSTİL VE KONFEKSİYON, vol.27, pp.3-9, 2017 (Other Refereed National Journals)
- II. **Uncertainty Analysis of the Temperature-Resistance Relationship of Temperature Sensing Fabric**  
Husain M. D. , Atalay Ö., Atalay A., Kennon R.  
FIBERS, vol.4, no.4, 2016 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **ECG Monitoring System Using Textile Electrodes**  
Paket E., ÖZLEM K., Elmoughni H., TUNÇAY ATALAY A., ATALAY Ö., İNCE G.  
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 05 October 2020
- II. **Real-Time Human Activity Recognition Using Textile-Based Sensors**  
AYVAZ U., Elmoughni H., TUNÇAY ATALAY A., ATALAY Ö., İNCE G.  
EAI International Conference on Body Area Networks, 15 December 2020
- III. **Step Length Estimation Using Sensor Fusion**  
Sevinç H., AYVAZ U., ÖZLEM K., Elmoughni H., TUNÇAY ATALAY A., ATALAY Ö., İNCE G.  
2020 IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS), Manchester, England, 16 August 2020
- IV. **Karpal Tünel Sendromu İçin Tekstil Tabanlı Yumuşak Robotik Eldiven**  
BELER Z., DEDE E., ÇELEBİ M. F. , TUNÇAY ATALAY A.  
TEKNOFEST 2020 Biyoteknoloji İnovasyon Yarışması, Gaziantep, Turkey, 22 - 27 September 2020

- V. **Comparative Assessment of Knee Motion Monitoring Technologies**  
KUYUCU C. F. , AYVAZ U., ÖZLEM K., ATALAY A., ATALAY Ö., İNCE G.  
2019 4th International Conference on Computer Science and Engineering (UBMK), Samsun, Turkey, 11 - 15 September 2019
- VI. **Textile Based Sensing System for LowerLimb Motion Monitoring**  
Ozlem K., ATALAY Ö., ATALAY A., Ince G.  
The 2018 International Conference on Neurorehabilitation, 16 - 20 October 2018
- VII. **Force Control of Textile-Based Soft Wearable Robots forMechanotherapy**  
Payne C. J. , Hevia E. G. , Phipps N., ATALAY A., ATALAY Ö., Seo B. R. , Mooney D. J. , walsh c.  
IEEE International Conference on Robotics and Automation (ICRA), Brisbane, Australia, 21 - 25 May 2018
- VIII. **Textile-Based Wearable Pedometer**  
ATALAY A., ATALAY Ö., Alp K., Ince G.  
8th International Textile Conference, 14 - 16 April 2018
- IX. **Textile Based Sensing System for Lower Limb Motion Monitoring**  
ÖZLEM K., ATALAY Ö., ATALAY A., İNCE G.  
Proceedings of International Conference on Neurorehabilitation, 1 - 05 January 2018
- X. **Performance analysis of Textile based Temperature Sensor**  
Hussain M. D. , ATALAY Ö., Naqvi S., ATALAY A., Kennon R.  
AATCC ITC, Wilmington, United States Of America, 28 - 30 March 2017

## Citations

Total Citations (WOS):276

h-index (WOS):5