

## Asst. Prof. ŞEYDA ERTEKİN BOLELLİ

### Personal Information

Email: sertekin@metu.edu.tr

### Research Areas

Engineering and Technology

### Professional Experience

Rectorate Commissioner, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, 2018 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, 2018 - Continues

Rectorate Commissioner, Middle East Technical University, 2017 - Continues

### Advising Theses

YARMAN VURAL F. T. , ERTEKİN BOLELLİ Ş., Multi-subject brain decoding using deep learning techniques, Post Graduate, B.VELİOĞLU(Student), 2016

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

- **A feature-based hybrid ARIMA-ANN model for univariate time series forecasting**  
Buyuksahin U. C. , ERTEKİN BOLELLİ Ş.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, pp.467-478, 2020 (Journal Indexed in SCI)
- **Improving forecasting accuracy of time series data using a new ARIMA-ANN hybrid method and empirical mode decomposition**  
Buyuksahin U. C. , Ertekina Ş.  
NEUROCOMPUTING, vol.361, pp.151-163, 2019 (Journal Indexed in SCI)
- **Joint optimization of ordering and maintenance with condition monitoring data**  
Moghaddass R., Ertekin Bolelli Ş.  
ANNALS OF OPERATIONS RESEARCH, vol.263, pp.271-310, 2018 (Journal Indexed in SCI)
- **A Bayesian Approach to Learning Scoring Systems**  
ERTEKİN BOLELLİ Ş., Rudin C.  
BIG DATA, vol.3, pp.267-276, 2015 (Journal Indexed in SCI)
- **REACTIVE POINT PROCESSES: A NEW APPROACH TO PREDICTING POWER FAILURES IN UNDERGROUND ELECTRICAL SYSTEMS**  
Ertekin Ş., Rudin C., McCormick T. H.  
ANNALS OF APPLIED STATISTICS, vol.9, pp.122-144, 2015 (Journal Indexed in SCI)
- **Approximating the crowd**  
Ertekin Ş., Rudin C., Hirsh H.  
DATA MINING AND KNOWLEDGE DISCOVERY, vol.28, pp.1189-1221, 2014 (Journal Indexed in SCI)
- **Analytics for Power Grid Distribution Reliability in New York City**

Rudin, Rudin C., Ertekin Ş., Passonneau R., Radeva, Radeva A., Tomar A., Xie, Xie B., Lewis S., Riddle M., Pangsrivini D., McCormick T.

INTERFACES, vol.44, pp.364-383, 2014 (Journal Indexed in SCI)

● **On Equivalence Relationships Between Classification and Ranking Algorithms**

Ertekin Ş., Rudin C.

JOURNAL OF MACHINE LEARNING RESEARCH, vol.12, pp.2905-2929, 2011 (Journal Indexed in SCI)

● **Nonconvex Online Support Vector Machines**

Ertekin Ş., Bottou L., Giles C. L.

IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, vol.33, pp.368-381, 2011 (Journal Indexed in SCI)

● **Efficient name disambiguation for large-scale databases**

Huang J., Ertekin Ş., Giles C. L.

KNOWLEDGE DISCOVERY IN DATABASES: PKDD 2006, PROCEEDINGS, vol.4213, pp.536-544, 2006 (Journal Indexed in SCI)

● **Clustering scientific literature using sparse citation graph analysis**

Bolelli L., Ertekin Ş., Giles C. L.

KNOWLEDGE DISCOVERY IN DATABASES: PKDD 2006, PROCEEDINGS, vol.4213, pp.30-41, 2006 (Journal Indexed in SCI)

● **Fast kernel classifiers with online and active learning**

Bordes A., Ertekin Ş., Weston J., Bottou L.

JOURNAL OF MACHINE LEARNING RESEARCH, vol.6, pp.1579-1619, 2005 (Journal Indexed in SCI)

## Articles Published in Other Journals

● **Learning customized and optimized lists of rules with mathematical programming**

Rudin C., Ertekin Ş.

MATHEMATICAL PROGRAMMING COMPUTATION, vol.10, pp.659-702, 2018 (Journal Indexed in ESCI)

● **Industry 4.0 and Turkish National Innovation System: Challenges and Prospects**

ERDİL E., ERTEKİN BOLELLİ Ş.

International Scientific Journal Industry 4.0, vol.2, pp.197-200, 2017 (Refereed Journals of Other Institutions)

● **CLASS IMBALANCE AND ACTIVE LEARNING**

Attenberg J., Ertekin Ş.

IMBALANCED LEARNING: FOUNDATIONS, ALGORITHMS, AND APPLICATIONS, pp.101-149, 2013 (Refereed Journals of Other Institutions)

## Books & Book Chapters

● **METU Smart Campus Project (iEAST)**

ERTEKİN BOLELLİ Ş., KEYSAN O., GÖL M., Bayazit H., Yildiz T., Marr A., Ganji M., Teimourzadeh S., Tör O. B., Özkavaf S.

in: New Technologies, Development and Application II, Isak Karabegović, Editor, Springer, pp.287-297, 2019

## Refereed Congress / Symposium Publications in Proceedings

● **Ensemble of Convolutional Neural Networks for Classification of Breast Microcalcification from Mammograms**

SERT E., ERTEKİN Ş., HALICI U.

39th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), South

- Korea, 11 - 15 July 2017, pp.689-692  
**Adaptive Oversampling for Imbalanced Data Classification**  
 Ertekin Ş.  
 28th International Symposium on Computer and Information Sciences (ISCIS), Paris, France, 28 - 29 October 2013, vol.264, pp.261-269
- **Approximating the wisdom of the crowd.**  
 ERTEKİN BOLELLİ Ş., Hirsh H., Rudin C.  
 NIPS 2011 Second Workshop on Computational Social Science and the Wisdom of Crowds, Granada, Nicaragua, 17 December 2011
- **Topic and Trend Detection in Text Collections Using Latent Dirichlet Allocation**  
 Bolelli L., Ertekin Ş., Giles C. L.  
 31st European Conference on Information Research, Toulouse, France, 6 - 09 April 2009, vol.5478, pp.776-777
- **Finding Topic Trends in Digital Libraries**  
 Bolelli L., Ertekin Ş., Zhou D., Giles C. L.  
 9th Annual International ACM/IEEE Joint Conference on Digital Libraries, Texas, United States Of America, 15 - 19 June 2009, pp.69-72
- **K-SVMMeans: A hybrid clustering algorithm for multi-type interrelated datasets**  
 Bolelli L., Ertekin Ş., Zhou D., Giles C. L.  
 IEEE/WIC/ACM International Conference on Web Intelligence, California, United States Of America, 2 - 05 November 2007, pp.198-204
- **Efficient Multiclass Boosting Classification with Active Learning**  
 Huang J., Ertekin Ş., Song Y., Zha H., Giles C. L.  
 7th SIAM International Conference on Data Mining, Minnesota, United States Of America, 26 - 28 April 2007, pp.297-308

## Scientific Consultations

Arcelik, Scientific Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, Turkey, 2018 - Continues

## Invited Congress and Symposium Activities

International Conference on Digital Transformations and Smart Systems, Panelists, Ankara, Turkey, 2018

## Citations

Total Citations (WOS):641

h-index (WOS):10

## Invited Talks

Sanayi ve Üniversite Bakış Açısıyla Dijital Dönüşüm, Conference, Orta Doğu Teknik Üniversitesi, Turkey, October 2018

Yapay Zekâ ve Güvenlik, Workshop, TC Cumhurbaşkanlığı, Turkey, April 2018

Kaliteli 4.0 / Endüstri 4.0, Seminar, Türkiye Kalite Derneği, Turkey, April 2018

Yapay Zekâ Algoritmaları ve Endüstride Uygulamaları, Seminar, Arcelik, Turkey, April 2018

TSK BYORK Calistayi, Workshop, Turk Silahlı Kuvvetleri, Turkey, March 2018

ODTU Bilim Kafe, Seminar, ODTU, Turkey, March 2018