

## Asst. Prof. Oğuz ALTUN

### Personal Information

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### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Bilgisayar Mühendisliği, Turkey 2003 - 2010

Masters (Non-Thesis), University Of Chicago, Bilgisayar Bilimleri, United States Of America 1999 - 2000

Undergraduate, Orta Doğu Teknik Üniversitesi, Fen Edebiyat, Fizik, Turkey 1992 - 1999

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, İlgili Bölgeleri ve Yerel Tanımlayıcılar ile Genelleştirilmiş Hough Dönüşümü ve En Az Eylemsizlik Eksenli Tabanlı Hizalama Yaklaşımı ile Türk İşaret Dili Tanıma Sistemi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği, 2010

Postgraduate, Doku Özelliği İle Görüntü Kütüphanelerinde İçerik Tabanlı Sorgulama Sistemi, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Bilgisayar Mühendisliği, 2004

### Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Evolutionary Computing, Pattern Recognition and Image Processing, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Bilgisayar Mühendisliği, 2018 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Bilgisayar Mühendisliği, 2011 - 2018

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

- I. **SKETRACK: Stroke-Based Recognition of Online Hand-Drawn Sketches of Arrow-Connected Diagrams and Digital Logic Circuit Diagrams**  
Altun O., Nooruldeen O.  
SCIENTIFIC PROGRAMMING, vol.2019, 2019 (Journal Indexed in SCI)
- II. **A novel meta-heuristic algorithm: Dynamic Virtual Bats Algorithm**

- Topal A. O. , Altun O.  
 INFORMATION SCIENCES, vol.354, pp.222-235, 2016 (Journal Indexed in SCI)
- III. **Hybrid achievement oriented computational chemotaxis in bacterial foraging optimization: a comparative study on numerical benchmark**  
 Yildiz Y. E. , Altun O.  
 SOFT COMPUTING, vol.19, pp.3647-3663, 2015 (Journal Indexed in SCI)
- IV. **A particle swarm optimization algorithm for optimal car-call allocation in elevator group control systems**  
 BOLAT B., ALTUN O., Cortes P.  
 APPLIED SOFT COMPUTING, vol.13, no.5, pp.2633-2642, 2013 (Journal Indexed in SCI)
- V. **An evaluation of local interest regions for non-rigid object class recognition**  
 Altun O., Albayrak S.  
 EXPERT SYSTEMS WITH APPLICATIONS, vol.39, pp.2335-2340, 2012 (Journal Indexed in SCI)
- VI. **Turkish fingerspelling recognition system using Generalized Hough Transform, interest regions, and local descriptors**  
 Altun O., Albayrak S.  
 PATTERN RECOGNITION LETTERS, vol.32, no.13, pp.1626-1632, 2011 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Detection of Cervix Cancer from Pap-smear Images**  
 AKYOL F. B. , ALTUN O.  
 Sakarya University Journal of Computer and Information Sciences, vol.3, no.2, pp.99-111, 2020 (Other Refereed National Journals)
- II. **A Comparison of Metaheuristics for the Allocation of Elevators to Calls in Buildings**  
 BOLAT B., ALTUN O., Cortes P., Yildiz Y. E. , Topal A. O.  
 JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.20, no.3, pp.519-529, 2017 (Journal Indexed in ESCI)
- III. **Computational Chemotaxis in Micro Bacterial Foraging Optimization for High Dimensional Problems A Comparative Study on Numerical Benchmark**  
 YILDIZ Y. E. , ALTUN O., TOPAL A. O.  
 International Journal of Computer Applications, vol.124, pp.1-8, 2015 (Refereed Journals of Other Institutions)
- IV. **Micro Bat Algorithm for High Dimensional Optimization Problems**  
 Topal A. O. , Altun O., Yıldız Y. E.  
 International Journal of Computer Applications, vol.122, pp.1-10, 2015 (Refereed Journals of Other Institutions)
- V. **A Novel String Distance Function Based on Most Frequent K Characters**  
 Şeker Ş. E. , Altun O., Ayan U., Mert C.  
 International Journal of Machine Learning and Computing, vol.4, pp.177-182, 2014 (International Conference Book)
- VI. **Using Gravitational Force in Terrain Optimization Problems**  
 TEROLLI E., HITAJ B., ALTUN O.  
 Social GAU Journal & Applied Sciences, 2013 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- I. **On the Numerical Solution of Nonlinear System of Coupled Sine-Gordon Equations**  
 Yıldırım Ö., Uzun M., Altun O.  
 4th International Conference on Analysis and Applied Mathematics (ICAAM), Mersin, Turkey, 6 - 09 September 2018, vol.1997
- II. **Fuzzy Neighborhood Grid Based DBSCAN Using Representative Points**

Altun O., Mekky A.

The Third International Conference on Data Mining, Internet Computing, and Big Data, Konya, Turkey, 21 - 23 July 2016

- III. **Feature Engineering in Hybrid Recommender Systems**  
Jalal A. A. , Altun O.  
The Third International Conference on Data Mining, Internet Computing, and Big Data (BigData2016), Konya, Turkey, 21 July 2015 - 23 July 2016
- IV. **Empirical Study of Dynamic Virtual Bats Algorithm DVBA**  
TOPAL A. O. , ALTUN O., YILDIZ Y. E.  
Computer Science 2015, Durres, Albania, 8 - 10 September 2015, pp.236-241
- V. **Chemotaxis Differential Evolution Optimization Algorithm Comparative Study on Mutation Strategies**  
YILDIZ Y. E. , ALTUN O., TOPAL A. O.  
Computer Science 2015, Durres, Albania, 8 - 10 September 2015, pp.230-235
- VI. **Differential Search Algorithm with Levy Flight**  
Emre S., Altun O.  
Second International Symposium on Engineering, Artificial Intelligence & Applications (ISEAIA 2014), Girne, Cyprus (Kkctc), 5 - 07 October 2014, pp.41
- VII. **Dynamic Virtual Bats Algorithm DVBA for Global Numerical Optimization**  
Topal A. O. , Altun O.  
6th International Conference on Intelligent Networking and Collaborative Systems (INCoS-2014), Salerno, Italy, 10 - 12 September 2014, pp.320-327
- VIII. **Improved Chemotaxis Differential Evolution Optimization Algorithm**  
Yıldız Y. E. , ALTUN O., Topal A. O.  
5th International Conference on Computing & Informatics, İstanbul, Turkey, 11 August 2015, pp.312-317
- IX. **Chemotaxis Differential Evolution Optimization Algorithm CDEOA for Minimization of Supply Chain Cost with Embedded Risk**  
Yıldız Y. E. , Altun O.  
2015 International Conference on Image Processing, Production and Computer Science(ICIPCS'2015), İstanbul, Turkey, 3 - 05 June 2015, pp.31-37
- X. **Particle Swarm Optimization Artificial Bee Colony Chain PSOABCC A Hybrid Metaheuristic Algorithm**  
Korkmaz T., Altun O.  
Advances in Computer Science and Informatics (ACSI-2014), İstanbul, Turkey, 22 - 23 August 2014, pp.42-49
- XI. **Dynamic Virtual Bats Algorithm (DVBA) For Minimization Of Supply Chain Cost With Embedded Risk**  
Topal A. O. , ALTUN O., Terolli E.  
8th UKSim-AMSS European Modelling Symposium on Computer Modelling and Simulation (EMS), Pisa, Italy, 21 - 23 October 2014, pp.58-64
- XII. **PyMeta: A Metaheuristic Optimization Package**  
ALTUN O.  
HP-SEE Second Dissemination and Training, 01 May 2013
- XIII. **Hızlı Hizalama, Kalın Kenar Bulma Ve Cezalandırılmalı Korelasyon İle Türk İşaret Dili Alfabeti Tanıma**  
ALTUN O., ALBAYRAK S.  
Sinyal İşleme ve İletişim Uygulamaları Kurultayı-SIU2007, Eskişehir, Turkey, 11 June 2007, pp.1-5
- XIV. **İşitme ve Konuşma Engelliler İçin Giyilebilir İşaret Dili Tanıma Sistemi**  
ALTUN O., ALBAYRAK S.  
Fikirler Pazarı, İstanbul, Turkey, 24 May 2007, pp.97
- XV. **Turkish Fingerspelling Recognition System Using Axis of Least Inertia Based Fast Alignment**  
ALTUN O., ALBAYRAK S.  
19th Australian Joint Conference on Artificial Intelligence, Hobart, Australia, Hobart, Australia, 01 December 2006, pp.473-481
- XVI. **Increasing the Effect of Fingers in Fingerspelling Hand Shapes by Thick Edge Detection and Correlation with Penalization**

ALTUN O., Albayrak S.

The Pacific-Rim Symposium on Image and Video Technology (PSIVT 2006), 01 December 2006

**XVII. Clustering Application Benchmark**

ALTUN O., Dursunođlu N., AMASYALI M. F.

IEEE International Symposium on Workload Characterization, California, United States Of America, 25 October 2006, vol.1, pp.178-181

**XVIII. Cardiac Problem Diagnosis Using SPECT Images with Statistical Neural Networks**

BİLGİN G., ALTUN O.

10th International Conference Artificial Intelligence and Soft Computing (IASTED 2006), Palma de Mallorca, Spain, 28 - 30 August 2006, pp.109-112

**XIX. Cardiac problem diagnosis with statistical neural networks and performance evaluation by ROC analysis**

Bilgin G., ALTUN O.

International Conference on Applied Electronics, Pilsen, Czech Republic, 6 - 07 September 2006, pp.15-18

## Supported Projects

ALTUN O., EU Supported Other Project, Dijital Televizyon ve Multimedya Alanında Yüksek Okul Programlarında Yenilik Getirme ve Gerçekleştirme, 2011 - 2014

ALTUN O., Other Supported Projects, Multimedya Veritabanlarında İçerik Tabanlı İmge Sorgulama Sistemi, 2002 - 2004

## Citations

Total Citations (WOS):71

h-index (WOS):4