

Asst. Prof. YILMAZ ATAY

Personal Information

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Research Areas

Computer Sciences, algorithms, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Evolutionary Computing, Software, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2020 - Continues

Assistant Professor, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Computer Engineering, 2019 - 2020

Research Assistant, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Computer Engineering, 2018 - 2019

Research Assistant, Selcuk University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2018

Professional Experience

Head of Department, Osmaniye Korkut Ata University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2019 - 2020

Courses

Mühendislik Projesi, Under Graduate, 2020 - 2021

Web Mining, Post Graduate, 2020 - 2021

Introduction to Artificial Intelligence , Under Graduate, 2020 - 2021

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

- I. **An Efficient Algorithm for Identifying Mutated Subnetworks Associated with Survival in Cancer**
Sarkar A., Atay Y., Erickson A. L. , Arisi I., Saltini C., Kahveci T.
IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, vol.17, no.5, pp.1582-1594, 2020 (Journal Indexed in SCI)
- II. **A swarm intelligence-based hybrid approach for identifying network modules**
Atay Y., Aslan M., Kodaz H.
JOURNAL OF COMPUTATIONAL SCIENCE, vol.28, pp.265-280, 2018 (Journal Indexed in SCI)
- III. **Community detection from biological and social networks: A comparative analysis of metaheuristic algorithms**

Atay Y., Koc I., Babaoglu I., Kodaz H.

APPLIED SOFT COMPUTING, vol.50, pp.194-211, 2017 (Journal Indexed in SCI)

IV. Optimization of job shop scheduling problems using modified clonal selection algorithm

Atay Y., Kodaz H.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.6, pp.1528-1539, 2014
(Journal Indexed in SCI)

Articles Published in Other Journals

I. Network motif detection in PPI networks and effect of R parameter on system performance

ATAY Y., KODAZ H.

International Journal of Applied Mathematics, Electronics and Computers, vol.4, no.3, pp.78-82, 2016 (Refereed Journals of Other Institutions)

II. Implementation of CSA with Clone-Mutation Mechanism to the JSSP (from ICSCCT 2013)

ATAY Y., KODAZ H.

International Journal of Machine Learning and Computing, vol.4, no.1, pp.6-9, 2014 (Refereed Journals of Other Institutions)

III. Application of Web Mining Using Clonal Selection Algorithm (from ICSCA 2013)

ATAY Y., KODAZ H.

Lecture Notes on Software Engineering, pp.270-272, 2013 (Refereed Journals of Other Institutions)

Books & Book Chapters

I. A New Adaptive Genetic Algorithm for Community Structure Detection

ATAY Y., KODAZ H.

in: Intelligent and Evolutionary Systems, Kittichai Lavangnananda, Somnuk Phon-Amnuaisuk, Worrawat Engchuan, Jonathan H. Chan, Editor, Springer International Publishing, pp.43-55, 2016

Refereed Congress / Symposium Publications in Proceedings

I. Detection Of Cohesive Subgroups In Social Networks Using Invasive Weed Optimization Algorithm

ATAY Y., KOÇ İ., BEŞKİRLİ M.

ICRES 2017: International Conference on Research in Education and Science, 18 - 21 May 2017

II. Tree-Seed Algorithm for Identifying Communities in Various Real-World Networks

KIRAN M. S. , ATAY Y., KODAZ H.

International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017

III. Identification of Meaningful Subnets from Clinical Cancer Datasets by the Proposed Dynamic Programming Method

ATAY Y., KODAZ H.

International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017

IV. An Approach Based On Recursive Largest First (RLF) Algorithm to Solving The Graph Coloring Problem Using a Hybrid Selection Strategy

ASLAN M., ATAY Y.

3rd International Conference on Science, Ecology and Technology, ROMA, Italy, 14 - 16 August 2017, pp.201-216

V. Finding the Overlapping Modules in Weighted Complex Networks

ATAY Y., ASLAN M., KODAZ H.

3rd International Conference on Science, Ecology and Technology, ROMA, Italy, 14 - 16 August 2017, pp.1-8

VI. Modularity Based Graph Clustering using Harmony Search Algorithm

ATAY Y., KODAZ H.

4th International Conference on Advanced Computer Science Applications and Technologies, 8 - 10 December 2015

VII. A New Adaptive Genetic Algorithm for Community Structure Detection

ATAY Y., KODAZ H.

19th Asia Pacific Symposium on Intelligent and Evolutionary Systems, 22 - 25 November 2015

VIII. Network motif detection in PPI networks and effect of R parameter on system performance

ATAY Y., KODAZ H.

INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGY AND SCIENCES (ICAT'xx15), 4 - 06 August 2015

IX. Implementation of CSA with Clone Mutation Mechanism to the JSSP

ATAY Y., KODAZ H.

2013 4th International Conference on Software and Computing Technology - ICSCCT 2013, 24 - 25 October 2013

X. Application of Web Mining using Clonal Selection Algorithm

ATAY Y., KODAZ H.

2013 2nd International Conference on Software and Computer Applications - ICSCA 2013, Paris, France, 1 - 02 June 2013

Supported Projects

ATAY Y., Project Supported by Higher Education Institutions, Kanserli hastaların gen/protein etkileşim ağlarından anlamlı alt kümelerin tespit edilmesi, 2017 - 2019

ATAY Y., Project Supported by Higher Education Institutions, Yapay Bağışıklık Sistemleri ile Atölye Tipi Çizelgeleme Problemlerinin Optimizasyonu (Job Shop Scheduling Problems optimization with Artificial Immune Systems), 2011 - 2012

Citations

Total Citations (WOS):37

h-index (WOS):2