Prof. Takuhi Nadia Erdoğan

Personal Information

Office Phone: +90 212 285 3592
Fax Phone: +90 212 285 3592
Email: nerdogan@itu.edu.tr
Web: https://avesis.itu.edu.tr/nerdogan

International Researcher IDs
ORCID: 0000-0002-7719-1955
ScopusID: 56238886800
Yoksis Researcher ID: 4893

Education Information

Doctorate, Istanbul Technical University, Turkey 1982 - 1987
Postgraduate, Bogazici University, Faculty Of Engineering, Department Of Computer Engıneerıng, Turkey 1978 - 1980
Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Electrıcal And Electronıcs Engıneerıng, Turkey 1974 - 1978

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2012 - Continues
Professor, Istanbul Technical University, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 1981 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A knowledge-intensive adaptive business process management framework**
Kir H., Erdoğan T. N.
Information Systems, vol.95, 2021 (SCI-Expanded)

II. **Influential user weighted sentiment analysis on topic based microblogging community**
ELİACİK A. B., Erdogan N.
EXPERT SYSTEMS WITH APPLICATIONS, vol.92, pp.403-418, 2018 (SCI-Expanded)

III. **Network Load Balancing with Strong Migration in an Agent Based Grid System Using CSP Approach**
Erdoğan T. N.
International Journal of Grid Computing & Applications, vol.3, no.4, pp.43-53, 2012 (SCI-Expanded)

IV. **A Generic Framework for Distributed Multirobot Cooperation**
Sariel-Talay S., BALCH T. R., Erdogan N.
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, vol.63, no.2, pp.323-358, 2011 (SCI-Expanded)

V. **Role models-implementation-based approaches to using roles**
SELÇUK Y. E., Erdogan N.

SOFTWARE-PRACTICE & EXPERIENCE, vol.41, no.1, pp.1-22, 2011 (SCI-Expanded)

VI. **Multiple Traveling Robot Problem: A Solution Based on Dynamic Task Selection and Robust Execution**

Sariel-Talay S., BALCH T. R., Erdogan N.

IEEE-ASME TRANSACTIONS ON MECHATRONICS, vol.14, no.2, pp.198-206, 2009 (SCI-Expanded)

VII. **Naval mine countermeasure missions - A distributed, incremental multirobot task selection scheme**

Sariel S., BALCH T., Erdogan N.

IEEE ROBOTICS & AUTOMATION MAGAZINE, vol.15, no.1, pp.45-52, 2008 (SCI-Expanded)

VIII. **A role model for description of agent behavior and coordination**

Selcuk Y. E., Erdogan N.

ENGINEERING SOCIETIES IN THE AGENTS WORLD VI, vol.3963, pp.29-48, 2006 (SCI-Expanded)

IX. **DCOBE: Distributed composite object-based environment**

Yilmaz G., Erdogan N.

COMPUTER JOURNAL, vol.48, no.3, pp.273-291, 2005 (SCI-Expanded)

X. **MAPSEC: Mobile-agent based publish/subscribe platform for electronic commerce**

Sahingoz O., Erdoğan T. N.

COMPUTER AND INFORMATION SCIENCES - ISCIS 2003, vol.2869, pp.348-355, 2003 (SCI-Expanded)

XI. **Augmenting object persistency paradigm for faster server development**

Kemikli E., Erdoğan T. N.

ADVANCES IN INFORMATION SYSTEMS, vol.2457, pp.327-335, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. **Topic Based Agent Migration Scheme via Publish/Subscribe Paradigm**

Karzan M. A., ERDOĞAN T. N.

International Journal of Information and Education Technology, vol.3, pp.290-294, 2013 (Scopus)

II. **Gerçek zamanlı çoklu robot çoklu hedef problemi için artımlı atama yöntemi**

SARIEL S., ERDOĞAN T. N., TUCKER B.

itü dergisi/d : mühendislik, vol.7, pp.41-54, 2008 (Peer-Reviewed Journal)

III. **A Two-Leveled Mobile Agent System for Electronic Commerce**

ŞAHİNGÖZ Ö. K., ERDOĞAN T. N.

the journal of Aeronautics and Space Technologies Institute, pp.21-32, 2003 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Multi-agent Based File Replication and Consistency Management**

AKDEMİR S., ERDOĞAN T. N.

in: Progress in Artificial Intelligence, Oliveira E., Gama J., Vale Z., Lopes Cardoso H., Editor, Springer, Cham, pp.727-738, 2017

II. **Agent-Based Semantic Business Process Management Methodology**

KIR H., ERDOĞAN T. N.

in: Advances in Practical Applications of Scalable Multi-agent Systems, Demazeau, Y., Ito, T., Bajo, J., Escalona, M.J., Editor, Springer International Publishing, pp.145-156, 2016

Refereed Congress / Symposium Publications in Proceedings

I. **Comparison of machine learning methods for software project effort estimation**

ERDOĞAN T. N., Yurdakurban V.

2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018

II. **Multi-agent Based File Replication and Consistency Management**
Akdemir S., Erdogan N.
18th EPIA Conference on Artificial Intelligence (EPIA), Porto, Portugal, 5 - 08 September 2017, vol.10423, pp.727-738

III. **Agent-Based Semantic Business Process Management Methodology**
Kir H., Erdogan N.
14th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS), Sevilla, Spain, 1 - 03 June 2016, vol.9662, pp.145-156

IV. **User Weighted Sentiment Analysis forFinancial Community on Twitter**
ELİAÇIK B., ERDOĞAN T. N.
11th International Conference on Innovations inInformation Technology (IIT'15), 1 - 03 November 2015

V. **User-Weighted Sentiment Analysis for Financial Community on Twitter**
Eliacik A. B., Erdogan N.
11th International Conference on Innovations in Information Technology (IIT), Dubai, United Arab Emirates, 1 - 03 November 2015, pp.46-51

VI. **Mikro Bloglardaki Finans Toplulukları içinKullanıcı Ağırlıklandırılmış Duygu Analizi Yöntemi**
Burak E., ERDOĞAN T. N.
9th Ulusal Yazılım MühendisliğiSempozyumu (UYMS'15), Turkey, 9 - 11 September 2015

VII. **Object Based Distributed Data Sharing In Multi-Agent Environment**
Pataci M., Erdogan N.
5th IEEE International Conference on Software Engineering and Service Science (ICSESS), Beijing, China, 27 - 29 June 2014, pp.182-189

VIII. **Virmon: A Virtualization-Based Automated Dynamic Malware Analysis System**
HÜSEYİN T., ERDOĞAN T. N.
6th INTERNATIONAL INFORMATION SECURITY CRYPTOLOGY CONFERENCE, 20 - 21 September 2013

IX. **Parallel Genetic Algorithm to Solve Traveling Salesman Problem on MapReduce Framework using**
HARUN RASİT E., ERDOĞAN T. N.
The International Conference on Soft Computing and Software Engineering 2013 (SCSE'13), United States Of America, 1 - 02 March 2013

X. **An Agent-based Framework for Personalized Advertisement on Mobile Devices**
Sahin R., Erdogan N.
2nd IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC), Waknaghat, India, 6 - 08 December 2012, pp.539-544

XI. **LOGISTICS APPLICATION ON DISTRIBUTED COMPOSITE OBJECT BASED ENVIRONMENT**
Nakhchivanski J., Yilmaz G., Erdogan N.
4th International Conference on Computer and Electrical Engineering (ICCEE 2011), Singapore, Singapore, 14 - 15 October 2011, pp.153-154

XII. **An Agent-Based Web Services Market**
Durmus A., Erdogan N.
7th International Conference on Software Engineering Reserch - Management and Applications, Haikou, China, 2 - 04 December 2009, vol.253, pp.145-157

XIII. **A Web Services Market Framework with Role Based Agents**
DURMUS A., Erdogan N.
IEEE International Conference on Systems, Man and Cybernetics, San-Antonio, Northern Mariana Islands, 11 - 14 October 2009, pp.4722-4727

XIV. **Enhancing Java RMI with Asynchrony through Reflection**
Akin O., Erdogan N.
1st International ICST Conference on Communications Infrastructure, Systems and Applications in Europe, London, Canada, 11 - 13 August 2009, vol.16, pp.23-34

XV. **An integrated approach to solving the real-world multiple traveling robot problem**

SARIEL S., ERDOĞAN T. N.

5th international conference on electrical and electronics engineering, 4 - 06 November 2007

XVI. **Incremental multi-robot task selection for resource constrained and interrelated tasks**

Sariel S., Balch T., Erdogan N.

2007 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2007, San Diego, CA, United States Of America, 29 October - 02 November 2007, pp.2314-2319

XVII. **Robust multi robot cooperation through dynamic task allocation and precaution routines**

SARIEL S., TUCKER B., ERDOĞAN T. N.

ICINCO-RA, 1 - 03 August 2006

XVIII. **A role model for description of agent behavior and coordination**

SELÇUK Y. E., ERDOĞAN T. N.

ESAW 2005, 26 - 28 October 2005, pp.29-48

XIX. **JAWIRO: Enhancing Java with roles**

SELÇUK Y. E., ERDOĞAN T. N.

International Symposium on Computer and Information Sciences, 26 - 29 October 2004

Supported Projects

Erdoğan T. N., Project Supported by Higher Education Institutions, AGRID AGENT BASED GRİD SYSTEM, 2010 - 2018

Erdoğan T. N., Project Supported by Higher Education Institutions, A. WEB SERVİCES MARKET FRAMEWORK WİTH ROLE BASED AGENTS, 2009 - 2018

Erdoğan T. N., Project Supported by Higher Education Institutions, Güvenli Hareket Etmen Mimarisi, 2005 - 2007

Erdoğan T. N., Project Supported by Higher Education Institutions, Gezgin Etmen Tabanlı Dağıtılmış Yürütme Ortamı, 2004 - 2006

Metrics

Publication: 35

Citation (WoS): 116

Citation (Scopus): 153

H-Index (WoS): 4

H-Index (Scopus): 6

Non Academic Experience

İstanbul Teknik Universitesi

Yıldız Teknik Universitesi