

Prof.Dr. FARUK POLAT

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr),
Türkiye 1989 - 1994

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl)
(Tezli), Türkiye 1987 - 1989

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 1983 - 1987

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2002 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 1996 - 2002

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 1994 - 1996

Araştırma Görevlisi, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 1987 -
1994

Yönetilen Tezler

POLAT F., Automatic identification of transitional bottlenecks in reinforcement learning under partial observability,
Yüksek Lisans, H.AYDIN(Öğrenci), 2017

POLAT F., A heuristic temporal difference approach with adaptive grid discretization, Yüksek Lisans, O.BORA(Öğrenci),
2016

POLAT F., A multi-objective recommendation system, Doktora, M.GÜLÇİN(Öğrenci), 2016

POLAT F., Effective subgoal discovery and option generation in reinforcement learning, Yüksek Lisans,
A.DEMİR(Öğrenci), 2016

POLAT F., Task assignment and scheduling in UAV mission planning with multiple constraints, Yüksek Lisans,
F.SEMİZ(Öğrenci), 2015

POLAT F., Factored reinforcement learning using extended sequence trees, Yüksek Lisans, C.ŞAHİN(Öğrenci), 2015

POLAT F., Community detection in social networks, Yüksek Lisans, K.ÖZTÜRK(Öğrenci), 2014

POLAT F., Context-aware Markov decision processes, Yüksek Lisans, Ö.EKMEKÇİ(Öğrenci), 2014

POLAT F., Mission planning for unmanned aerial vehicle (UAV) teams, Yüksek Lisans, S.YILGIN(Öğrenci), 2014

POLAT F., Abstraction in reinforcement learning in partially observable environments, Doktora, E.ÇILDEN(Öğrenci), 2014

POLAT F., Batch mode reinforcement learning for controlling gene regulatory networks and multi-model gene expression data enrichment framework, Yüksek Lisans, U.ŞİRİN(Öğrenci), 2013

POLAT F., Efficient partially observable markov decision process based formulation of gene regulatory network control problem, Doktora, U.ERDOĞDU(Öğrenci), 2012

POLAT F., Multi-objective path planning for virtual environments, Yüksek Lisans, T.ORAL(Öğrenci), 2012

POLAT F., Multiresolution formation preserving path planning in 3-D virtual environments, Yüksek Lisans, C.HOŞGÖR(Öğrenci), 2011

POLAT F., An automated conversion of temporal databases into XML with fuzziness option, Yüksek Lisans, Ö.ÖZGÜN(Öğrenci), 2010

POLAT F., Optimization algorithms for resource allocation problem of air tasking order preparation, Yüksek Lisans, A.ENGİN(Öğrenci), 2010

POLAT F., Learning cooperation in hunter-prey problem via state abstraction, Yüksek Lisans, A.İŞÇEN(Öğrenci), 2009

POLAT F., Induction and control of large scale gene regulatory networks, Doktora, M.TAN(Öğrenci), 2009

POLAT F., Design and implementation of a p2p contracting overlay, Yüksek Lisans, R.ÇELEBİ(Öğrenci), 2009

POLAT F., A BDI-based multiagent simulation framework, Yüksek Lisans, M.YÜKSELEN(Öğrenci), 2008

POLAT F., Formation preserving navigation of agent teams in 3-D terrains, Yüksek Lisans, A.GALİP(Öğrenci), 2008

POLAT F., A new offline path search algorithm for computer games that considers damage as a feasibility criterion, Yüksek Lisans, S.BAYILI(Öğrenci), 2008

POLAT F., Abstraction in reinforcement learning, Doktora, S.GİRGİN(Öğrenci), 2007

POLAT F., Single and multi agent real-time path search in dynamic and partially observable environments, Doktora, Ç.ÜNDEĞER(Öğrenci), 2007

POLAT F., Multiagent moving target search in fully visible grid environments with no speed difference, Yüksek Lisans, C.EROĞUL(Öğrenci), 2006

POLAT F., Controlling discrete genetic regulatory networks, Doktora, O.ABUL(Öğrenci), 2005

POLAT F., Resource based plan revision in dynamic multi-agent environments, Yüksek Lisans, U.ERDOĞDU(Öğrenci), 2004

POLAT F., Coopretrieval: A cooperation framework for role-based case-based reasoning agents, Yüksek Lisans, M.ÖZGÜR(Öğrenci), 2003

POLAT F., Implementing KQML agent communication language for multiagent simulation architectures on HLA, Yüksek Lisans, E.GÖKTÜRK(Öğrenci), 2003

POLAT F., Learning to coordinate for target selection, Yüksek Lisans, M.TAN(Öğrenci), 2003

POLAT F., 2 LRL: A two-level multi-agent reinforcement learning algorithm with communication, Yüksek Lisans, G.ERUS(Öğrenci), 2002

POLAT F., Real time mission planning for virtual human agents, Yüksek Lisans, Ç.ÜNDEĞER(Öğrenci), 2001

POLAT F., Multi-agent reinforcement learning using roles, Yüksek Lisans, E.ÇILDEN(Öğrenci), 2001

POLAT F., Path-connecting multi-agent real-time A-star search, Yüksek Lisans, M.KEMAL(Öğrenci), 2001

POLAT F., Coordination of agents in multi-agent search, Yüksek Lisans, A.ÇAKIR(Öğrenci), 2000

POLAT F., S-learning: A multi-agent reinforcement learning method, Yüksek Lisans, U.KUTER(Öğrenci), 2000

POLAT F., Multi agent reinforcement learning using function approximation, Yüksek Lisans, O.ABUL(Öğrenci), 1999

POLAT F., Forming coalitions through negotiation in multi-agent environments, Yüksek Lisans, H.ULUSOY(Öğrenci), 1999

POLAT F., Multi-agent reinforcement learning, Yüksek Lisans, S.ŞENKUL(Öğrenci), 1999

POLAT F., Alternative plan generation for multiple query optimization, Yüksek Lisans, G.MENEKŞE(Öğrenci), 1998

POLAT F., Implementation of an object data model enforcing closure and reusability, Yüksek Lisans, A.YILMAZ(Öğrenci), 1998

POLAT F., Distributed shared memory linda system, Yüksek Lisans, S.OFLAZ(Öğrenci), 1998

POLAT F., Solving graph partitioning problem using evolutionary heuristic, Yüksek Lisans, M.KARDAŞLAR(Öğrenci), 1998

POLAT F., A Theoretical framework for combining multiple knowledge bases with uncertainty, Yüksek Lisans, E.SEYEDİ(Öğrenci), 1996

Jüri Üyelikleri

Akademik Kadroya Atama, Akademik Kadroya Atama, Orta Doğu Teknik Üniversitesi, Ekim, 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Solving the area coverage problem with UAVs: A vehicle routing with time windows variation**
SEMİZ F., POLAT F.
Robotics and Autonomous Systems, cilt.126, 2020 (SCI İndekslerine Giren Dergi)
- **Effective feature reduction for link prediction in location-based social networks**
Bayrak A. E. , Polat F.
JOURNAL OF INFORMATION SCIENCE, cilt.45, ss.676-690, 2019 (SCI İndekslerine Giren Dergi)
- **Automatic landmark discovery for learning agents under partial observability**
Demir A., Cilden E., Polat F.
KNOWLEDGE ENGINEERING REVIEW, cilt.34, 2019 (SCI İndekslerine Giren Dergi)
- **GENERATING EFFECTIVE INITIATION SETS FOR SUBGOAL-DRIVEN OPTIONS**
DEMİR A., Cilden E., POLAT F.
ADVANCES IN COMPLEX SYSTEMS, cilt.22, 2019 (SCI İndekslerine Giren Dergi)
- **A context aware model for autonomous agent stochastic planning**
Ekmekci O., POLAT F.
ROBOTICS AND AUTONOMOUS SYSTEMS, cilt.112, ss.137-153, 2019 (SCI İndekslerine Giren Dergi)
- **Effective induction of gene regulatory networks using a novel recommendation method**
Ozsoy M. G. , POLAT F., Alhajj R.
INTERNATIONAL JOURNAL OF DATA MINING AND BIOINFORMATICS, cilt.22, ss.91-112, 2019 (SCI İndekslerine Giren Dergi)
- **Realizing drug repositioning by adapting a recommendation system to handle the process**
OZSOY M. G. , Ozyer T., POLAT F., Alhajj R.
BMC BIOINFORMATICS, cilt.19, 2018 (SCI İndekslerine Giren Dergi)
- **Batch Mode TD(λ) for Controlling Partially Observable Gene Regulatory Networks**
Sirin U., POLAT F., Alhajj R.
IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, cilt.14, ss.1214-1227, 2017 (SCI İndekslerine Giren Dergi)
- **Employing decomposable partially observable Markov decision processes to control gene regulatory networks**
Erdogdu U., POLAT F., Alhajj R.
ARTIFICIAL INTELLIGENCE IN MEDICINE, cilt.83, ss.14-34, 2017 (SCI İndekslerine Giren Dergi)
- **Making recommendations by integrating information from multiple social networks**
Ozsoy M. G. , POLAT F., Alhajj R.
APPLIED INTELLIGENCE, cilt.45, ss.1047-1065, 2016 (SCI İndekslerine Giren Dergi)
- **Effective gene expression data generation framework based on multi-model approach**
Sirin U., Erdogdu U., POLAT F., TAN M., Alhajj R.
ARTIFICIAL INTELLIGENCE IN MEDICINE, cilt.70, ss.41-61, 2016 (SCI İndekslerine Giren Dergi)
- **MOD* Lite: An Incremental Path Planning Algorithm Taking Care of Multiple Objectives**
Oral T., POLAT F.
IEEE TRANSACTIONS ON CYBERNETICS, cilt.46, ss.245-257, 2016 (SCI İndekslerine Giren Dergi)
- **Toward Generalization of Automated Temporal Abstraction to Partially Observable Reinforcement Learning**

Cilden E., POLAT F.

IEEE TRANSACTIONS ON CYBERNETICS, cilt.45, ss.1414-1425, 2015 (SCI İndekslerine Giren Dergi)

● **Employment of an evolutionary heuristic to solve the target allocation problem efficiently**

Bayrak A. E. , POLAT F.

● INFORMATION SCIENCES, cilt.222, ss.675-695, 2013 (SCI İndekslerine Giren Dergi)

● **Integrating machine learning techniques into robust data enrichment approach and its application to gene expression data**

Erdogdu U., TAN M., Alhaji R., POLAT F., Rokne J., Demetrick D.

● INTERNATIONAL JOURNAL OF DATA MINING AND BIOINFORMATICS, cilt.8, ss.247-281, 2013 (SCI İndekslerine Giren Dergi)

● **Subtree selection in kernels for graph classification**

TAN M., POLAT F., Alhaji R.

● INTERNATIONAL JOURNAL OF DATA MINING AND BIOINFORMATICS, cilt.8, ss.294-310, 2013 (SCI İndekslerine Giren Dergi)

● **Revealing miRNA Regulation and miRNA Target Prediction Using Constraint-Based Learning**

Alshalalfa M., TAN M., Naji G., Alhaji R., POLAT F., Rokne J.

● IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS, cilt.42, ss.1354-1364, 2012 (SCI İndekslerine Giren Dergi)

● **Formation preserving path finding in 3-D terrains**

Bayrak A. G. , POLAT F.

● APPLIED INTELLIGENCE, cilt.36, ss.348-368, 2012 (SCI İndekslerine Giren Dergi)

● **Limited-Damage A*: A path search algorithm that considers damage as a feasibility criterion**

Bayili S., POLAT F.

● KNOWLEDGE-BASED SYSTEMS, cilt.24, ss.501-512, 2011 (SCI İndekslerine Giren Dergi)

● **Influence of Prior Knowledge in Constraint-Based Learning of Gene Regulatory Networks**

TAN M., Alshalalfa M., Alhaji R., POLAT F.

● IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, cilt.8, ss.130-142, 2011 (SCI İndekslerine Giren Dergi)

● **Improving reinforcement learning by using sequence trees**

Girgin S., POLAT F., Alhaji R.

● MACHINE LEARNING, cilt.81, ss.283-331, 2010 (SCI İndekslerine Giren Dergi)

● **Multi-agent real-time pursuit**

Undeger C., POLAT F.

● AUTONOMOUS AGENTS AND MULTI-AGENT SYSTEMS, cilt.21, ss.69-107, 2010 (SCI İndekslerine Giren Dergi)

● **Automated Large-Scale Control of Gene Regulatory Networks**

Tan M., Alhaji R., POLAT F.

● IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART B-CYBERNETICS, cilt.40, ss.286-297, 2010 (SCI İndekslerine Giren Dergi)

● **Scalable approach for effective control of gene regulatory networks**

Tan M., Alhaji R., POLAT F.

● ARTIFICIAL INTELLIGENCE IN MEDICINE, cilt.48, ss.51-59, 2010 (SCI İndekslerine Giren Dergi)

● **Real-Time Moving Target Evaluation Search**

Undeger C., POLAT F.

● IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS, cilt.39, ss.366-372, 2009 (SCI İndekslerine Giren Dergi)

● **A layered approach to learning coordination knowledge in multiagent environments**

Erus G., Polat F.

● APPLIED INTELLIGENCE, cilt.27, ss.249-267, 2007 (SCI İndekslerine Giren Dergi)

● **RTTES: Real-time search in dynamic environments**

Undeger C., Polat F.

● APPLIED INTELLIGENCE, cilt.27, ss.113-129, 2007 (SCI İndekslerine Giren Dergi)

● **Positive impact of state similarity on reinforcement learning performance**

Girgin S., Polat F., Alhaj R.

IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART B-CYBERNETICS, cilt.37, ss.1256-1270, 2007

(SCI İndekslerine Giren Dergi)

● **Real-time edge follow: A real-time path search approach**

Undeger C., Polat F.

IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS, cilt.37, ss.860-

872, 2007 (SCI İndekslerine Giren Dergi)

● **A powerful approach for effective finding of significantly differentially expressed genes**

Abul O., Alhajj R., Polat F.

IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, cilt.3, ss.220-231, 2006 (SCI

İndekslerine Giren Dergi)

● **Effectiveness of considering state similarity for reinforcement learning**

Girgin S., Polat F., Alhajj R.

INTELLIGENT DATA ENGINEERING AND AUTOMATED LEARNING - IDEAL 2006, PROCEEDINGS, cilt.4224, ss.163-

171, 2006 (SCI İndekslerine Giren Dergi)

● **Co-operation framework of case-based reasoning agents for automated product recommendation**

Baykal M., Alhajj R., Polat F.

JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE, cilt.17, ss.201-220, 2005 (SCI

İndekslerine Giren Dergi)

● **Data management research at the Middle East Technical University**

Cicekli N., Cosar A., Dogac A., Polat F., Senkul P., Toroslu I., Yazici A.

SIGMOD RECORD, cilt.34, ss.81-84, 2005 (SCI İndekslerine Giren Dergi)

● **Multilevel graph partitioning: an evolutionary approach**

Kucupetek S., Polat F., Oguztuzun H.

JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, cilt.56, ss.549-562, 2005 (SCI İndekslerine Giren Dergi)

● **Views as first-class citizens in object-oriented databases**

Alhajj R., Polat F., Yilmaz C.

VLDB JOURNAL, cilt.14, ss.155-169, 2005 (SCI İndekslerine Giren Dergi)

● **Finding differentially expressed genes for pattern generation**

Abul O., Alhajj R., Polat F., Barker K.

BIOINFORMATICS, cilt.21, ss.445-450, 2005 (SCI İndekslerine Giren Dergi)

● **Multiple-agents to identify and separate touching digits in unconstrained handwritten Hindi numerals**

Alhajj R., Polat F.

JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE, cilt.15, ss.461-471, 2003 (SCI

İndekslerine Giren Dergi)

● **Chemoenzymatic synthesis of both enantiomers of 3-hydroxy-2,3-dihydro-4H-chromen-4-one**

Demir A., Aybey A., Sesenoglu O., Polat F.

TETRAHEDRON-ASYMMETRY, cilt.14, ss.1489-1493, 2003 (SCI İndekslerine Giren Dergi)

● **Implementing agent communication for a multi-agent simulation infrastructure on HLA**

Gokturk E., Polat F.

COMPUTER AND INFORMATION SCIENCES - ISCIS 2003, cilt.2869, ss.619-626, 2003 (SCI İndekslerine Giren Dergi)

● **Rule-based schema evolution in object-oriented databases**

Alhajj R., Polat F.

KNOWLEDGE-BASED SYSTEMS, cilt.16, ss.47-57, 2003 (SCI İndekslerine Giren Dergi)

● **Learning intelligent behavior in a non-stationary and partially observable environment**

Senkul S., Polat F.

ARTIFICIAL INTELLIGENCE REVIEW, cilt.18, ss.97-115, 2002 (SCI İndekslerine Giren Dergi)

● **Coordination of intelligent agents in real-time search**

Cakir A., Polat F.

- EXPERT SYSTEMS, cilt.19, ss.80-87, 2002 (SCI İndekslerine Giren Dergi)
Learning sequences of compatible actions among agents
Polat F., Abul O.
- ARTIFICIAL INTELLIGENCE REVIEW, cilt.17, ss.21-37, 2002 (SCI İndekslerine Giren Dergi)
Semantic information-based alternative plan generation for multiple query optimization
Polat F., Cosar A., Alhajj R.
- INFORMATION SCIENCES, cilt.137, ss.103-133, 2001 (SCI İndekslerine Giren Dergi)
Multiagent reinforcement learning using function approximation
Abul O., Polat F., Alhajj R.
- IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS, cilt.30, ss.485-497, 2000 (SCI İndekslerine Giren Dergi)
Using object-oriented materialized views to answer selection-based complex queries
Alhajj R., Polat F.
- INFORMATION SCIENCES, cilt.118, ss.75-99, 1999 (SCI İndekslerine Giren Dergi)
A multi-agent tuple-space based problem solving framework
Polat F., Alhajj R.
- JOURNAL OF SYSTEMS AND SOFTWARE, cilt.47, ss.11-17, 1999 (SCI İndekslerine Giren Dergi)
Incremental view maintenance in object-oriented databases
Alhajj R., Polat F.
- DATA BASE FOR ADVANCES IN INFORMATION SYSTEMS, cilt.29, ss.52-64, 1998 (SCI İndekslerine Giren Dergi)
Proper handling of query results towards maximizing reusability in object-oriented databases
Alhajj R., Polat F.
- INFORMATION SCIENCES, cilt.107, ss.247-272, 1998 (SCI İndekslerine Giren Dergi)
View maintenance in object-oriented databases
Alhajj R., Polat F.
- DATABASE AND EXPERT SYSTEMS APPLICATIONS, cilt.1134, ss.153-162, 1996 (SCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Compact Frequency Memory for Reinforcement Learning with Hidden States.**
Polat F., Aydin H., Cilden E.
PRIMA 2019: Principles and Practice of Multi-Agent Systems - 22nd International Conference, Taranto, İtalya, 28 - 31 Ekim 2019, ss.425-433
- **Reducing Features to Improve Link Prediction Performance in Location Based Social Networks, Non-Monotonically Selected Subset from Feature Clusters**
Bayrak A. E. , POLAT F.
IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Vancouver, Kanada, 27 - 30 Ağustos 2019, ss.809-815
- **Landmark Based Reward Shaping in Reinforcement Learning with Hidden States**
DEMİR A., Cilden E., POLAT F.
18th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS), Montreal, Kanada, 13 - 17 Mayıs 2019, ss.1922-1924
- **Mining Individual Features to Enhance Link Prediction Efficiency in Location Based Social Networks**
Bayrak A. E. , Polat F.
IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Barcelona, İspanya, 28 - 31 Ağustos 2018, ss.920-925
- **Using Transitional Bottlenecks to Improve Learning in Nearest Sequence Memory Algorithm**
AYDIN H., Cilden E., POLAT F.
IEEE 29th International Conference on Tools with Artificial Intelligence (ICTAI), Massachusetts, Amerika Birleşik Devletleri, 6 - 08 Kasım 2017, ss.147-152

● **A Concept Filtering Approach for Diverse Density to Discover Subgoals in Reinforcement Learning**

DEMİR A., Cilden E., POLAT F.

IEEE 29th International Conference on Tools with Artificial Intelligence (ICTAI), Massachusetts, Amerika Birleşik Devletleri, 6 - 08 Kasım 2017, ss.1-5

● **A History Tree Heuristic to Generate Better Initiation Sets for Options in Reinforcement Learning**

DEMİR A., Cilden E., POLAT F.

22nd European Conference on Artificial Intelligence (ECAI), Hague, Hollanda, 29 Ağustos - 02 Eylül 2016, cilt.285, ss.1644-1645

● **Time Preference aware Dynamic Recommendation Enhanced with Location, Social Network and Temporal Information**

Ozsoy M. G. , POLAT F., Alhadj R.

8th IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), San-Francisco, Kostarika, 18 - 21 Ağustos 2016, ss.909-916

● **Examining Place Categories for Link Prediction in Location Based Social Networks**

Bayrak A. E. , POLAT F.

8th IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), San-Francisco, Kostarika, 18 - 21 Ağustos 2016, ss.976-979

● **Inference of Gene Regulatory Networks Via Multiple Data Sources and a Recommendation Method**

Ozsoy M. G. , POLAT F., Alhadj R.

IEEE International Conference on Bioinformatics and Biomedicine, Washington, Kiribati, 9 - 12 Kasım 2015, ss.661-664

● **Modeling Individuals and Making Recommendations Using Multiple Social Networks**

Ozsoy M. G. , POLAT F., Alhadj R.

IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Paris, Fransa, 25 - 28 Ağustos 2015, ss.1184-1191

● **Memory Efficient Factored Abstraction for Reinforcement Learning**

Sahin C., Cilden E., POLAT F.

IEEE 2nd International Conference on Cybernetics (CYBCONF), Gdynia, Polonya, 24 - 26 Haziran 2015, ss.18-23

● **Multi-Objective Optimization Based Location and Social Network Aware Recommendation**

Ozsoy M. G. , POLAT F., Alhadj R.

10th IEEE International Conference on Collaborative Computing Networking Applications and Worksharing, Florida, Amerika Birleşik Devletleri, 22 - 25 Ekim 2014, ss.233-242

● **Trust Based Recommendation Systems**

Ozsoy M. G. , POLAT F.

IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Niagara Falls, Kanada, 25 - 28 Ağustos 2013, ss.1267-1274

● **Effective Enrichment of Gene Expression Data Sets**

Sirin U., Erdogdu U., TAN M., POLAT F., Alhadj R.

11th IEEE International Conference on Machine Learning and Applications (ICMLA), Florida, Amerika Birleşik Devletleri, 12 - 15 Aralık 2012, ss.76-81

● **A Multi-Objective Incremental Path Planning Algorithm for Mobile Agents**

Oral T., POLAT F.

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● **Abstraction in Model Based Partially Observable Reinforcement Learning using Extended Sequence Trees**

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● **Partially Observable Gene Regulatory Network Control Without a Boundary on Horizon**

Erdogdu U., POLAT F., Alhadj R.

IEEE 24th International Conference on Tools with Artificial Intelligence (ICTAI), Athens, Yunanistan, 7 - 09 Kasım 2012, ss.81-88

● **Employing Machine Learning Techniques for Data Enrichment: Increasing the number of samples for effective gene expression data analysis**

Erdogdu U., TAN M., Alhadj R., POLAT F., Demetrick D., Rokne J.

IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Georgia, Amerika Birleşik Devletleri, 12 - 15 Kasım 2011, ss.238-242

● **Feature Selection for Graph Kernels**

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● **Derivation of Transcriptional Regulatory Relationships by Partial Least Squares Regression**

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IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2009), Washington, Kiribati, 1 - 04 Kasım 2009, ss.88-89

● **Large-Scale Approximate Intervention Strategies for Probabilistic Boolean Networks as Models of Gene Regulation**

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● **Combining Multiple Types of Biological Data in Constraint-Based Learning of Gene Regulatory Networks**

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IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, Idaho, Amerika Birleşik Devletleri, 15 - 17 Eylül 2008, ss.131-132

● **FORMATION PRESERVING NAVIGATION OF AGENT TEAMS IN 3-D TERRAINS**

Bayrak A. G. , POLAT F.

6th International Industrial Simulation Conference, Lyon, Fransa, 9 - 11 Haziran 2008, ss.148-155

● **Real-Time Moving Target Search**

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● **Feature reduction for gene regulatory network control**

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