

Assoc. Prof. GÜLFEM ALPTEKİN

Personal Information

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Education Information

Doctorate, Bogazici University, Institute Of Science, Bilgisayar Mühendisliği (Dr), Turkey 2003 - 2010

Postgraduate, Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey 2001 - 2003

Undergraduate, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 1997 - 2001

Foreign Languages

French, C1 Advanced

English, C1 Advanced

Dissertations

Doctorate, Alternative spectrum trading architectures in cognitive radio networks: Spectrum exchange, CRM, strict power control, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2010

Postgraduate, L'evaluation des alternatives de paiement electronique avec des methodes floues d'aide a la decisions, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2003

Research Areas

algorithms, Performance Modelling and Evaluation, Numerical Algorithms, Uncertainty Management, Software, Software Engineering, Soft Computing, Optimization Theory and Methods, Linear Programming, Heuristic Methods

Academic Titles / Tasks

Associate Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2017 - Continues

Assistant Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2010 - Continues

Research Assistant, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2001 - 2010

Academic and Administrative Experience

Galatasaray Üniversitesi, Mühendislik ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - Continues

Advising Theses

- ALPTEKİN G., Award determination for crowdsourced software development, Postgraduate, A.SARI(Student), 2017
- ALPTEKİN G., A code offloading framework for mobile cloud computing: Icemobile, Postgraduate, E.ÇALIŞIR(Student), 2016
- ALPTEKİN G., Screen positioning algorithm for augmented reality application on android devices, Postgraduate, D.ERİŞİK(Student), 2016
- ALPTEKİN G., Energy efficiency analysis of a GPS-based augmented reality application, Postgraduate, A.KARAMAN(Student), 2016
- ALPTEKİN G., Analysis of the impact of clustering on Apriori data mining algorithm, Postgraduate, N.YILMAZ(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **DAKOTA: Sensor and Touch Screen-Based Continuous Authentication on a Mobile Banking Application**
Durmaz İncel Ö., Gunay S., Akan Y., Barlas Y., Basar O. E. , Alptekin G., Isbilen M.
IEEE ACCESS, vol.9, pp.38943-38960, 2021 (Peer-Reviewed Journal)
- II. **A systematic literature review on crowdsourcing in software engineering**
Sari A., Tosun Kühn A., Alptekin G.
JOURNAL OF SYSTEMS AND SOFTWARE, vol.153, pp.200-219, 2019 (Peer-Reviewed Journal)
- III. **A Fuzzy Quality Function Deployment Approach for Differentiating Cloud Products**
ALPTEKİN S. E. , Alptekin G. I.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.11, no.1, pp.1041-1055, 2018 (Peer-Reviewed Journal)
- IV. **Strategic pricing model based on genetic algorithm: The case of electronic publishing market**
Alptekin G. I.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.29, no.4, pp.1551-1564, 2015 (Peer-Reviewed Journal)
- V. **A hybrid MCDM methodology for ERP selection problem with interacting criteria**
GÜRBÜZ T., ALPTEKİN S. E. , Alptekin G. I.
DECISION SUPPORT SYSTEMS, vol.54, no.1, pp.206-214, 2012 (Peer-Reviewed Journal)
- VI. **Spectrum trading in cognitive radio networks with strict transmission power control**
Alptekin G. I. , Bener A. B.
EUROPEAN TRANSACTIONS ON TELECOMMUNICATIONS, vol.22, no.6, pp.282-295, 2011 (Peer-Reviewed Journal)
- VII. **An integrated case-based reasoning and MCDM system for Web based tourism destination planning**
Alptekin G. I. , BÜYÜKÖZKAN FEYZİOĞLU G.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.3, pp.2125-2132, 2011 (Peer-Reviewed Journal)
- VIII. **Application of a hybrid intelligent decision support model in logistics outsourcing**
Isiklar G., Alptekin E., Buyukozkan G.
COMPUTERS & OPERATIONS RESEARCH, vol.34, no.12, pp.3701-3714, 2007 (Peer-Reviewed Journal)
- IX. **Using a multi-criteria decision making approach to evaluate mobile phone alternatives**
Isiklar G., Buyukozkan G.
COMPUTER STANDARDS & INTERFACES, vol.29, no.2, pp.265-274, 2007 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Human Activity Recognition with Smart Watches Using Federated Learning**
Gönül T., Durmaz Incel Ö., Alptekin G.
International Conference on Intelligent and Fuzzy Systems 2022, İzmir, Turkey, 19 - 21 July 2022, vol.505, pp.77-85
- II. **Financial Applications of Graph Neural Networks: A Review**
Alptekin G.
International Conference of Technology Analysis, Fintech and Financial Services (TAFFS 2022), Kolkata, India, 11 - 13 March 2022, pp.1-4
- III. **Transforming Deep Learning Models for Resource-Efficient Activity Recognition on Mobile Devices**
Bursa S. O., Incel O. D., Alptekin G.
5th Conference on Cloud and Internet of Things, CIoT 2022, Marrakech, Morocco, 28 - 30 March 2022, pp.83-89
- IV. **DAKOTA: Continuous authentication with behavioral biometrics in a mobile banking application**
Barlas Y., Basar O. E., Akan Y., Isbilen M., Alptekin G. I., Incel O. D.
5th International Conference on Computer Science and Engineering, UBMK 2020, Diyarbakır, Turkey, 9 - 10 September 2020, pp.298-303
- V. **Using behavioral biometric sensors of mobile phones for user authentication**
Karakaya N., Alptekin G., Incel Ö. D.
23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, KES 2019, Budapest, Hungary, 4 - 06 September 2019, vol.159, pp.475-484
- VI. **Towards continuous authentication on mobile phones using deep learning models**
Volaka H. C., Alptekin G., Basar O. E., Isbilen M., Incel O. D.
16th International Conference on Mobile Systems and Pervasive Computing, MobiSPC 2019, 14th International Conference on Future Networks and Communications, FNC 2019, 9th International Conference on Sustainable Energy Information Technology, SEIT 2019, Halifax, Canada, 19 - 21 August 2019, vol.155, pp.177-184
- VII. **Resource usage analysis of a mobile banking application using sensor-and-touchscreen-based continuous authentication**
Basar O. E., ALPTEKİN G., Volaka H. C., Isbilen M., Incel O. D.
16th International Conference on Mobile Systems and Pervasive Computing, MobiSPC 2019, 14th International Conference on Future Networks and Communications, FNC 2019, 9th International Conference on Sustainable Energy Information Technology, SEIT 2019, Halifax, Canada, 19 - 21 August 2019, vol.155, pp.185-192
- VIII. **Software greenability: A case study of cloud-based business applications provisioning**
Acar H., Benfenatki H., Gelas J., Da Silva C. F., ALPTEKİN G., Benharkat A., Ghodous P.
11th IEEE International Conference on Cloud Computing (CLOUD) Part of the IEEE World Congress on Services, San-Francisco, Costa Rica, 2 - 07 July 2018, pp.875-878
- IX. **Resource Usage Analysis of a Sensor-Based Mobile Augmented Reality Application**
Karaman A., Erisik D., DURMAZ İNCEL Ö., Alptekin G. I.
7th International Conference on Ambient Systems, Networks and Technologies (ANT) / 6th International Conference on Sustainable Energy Information Technology (SEIT), Madrid, Spain, 23 - 26 May 2016, vol.83, pp.300-304
- X. **Beyond CPU: Considering Memory Power Consumption of Software**
Acar H., ALPTEKİN G., Gelas J., Ghodous P.
5th International Conference on Smart Cities and Green ICT Systems (SMARTGREENS), Rome, Italy, 23 - 25 April 2016, pp.417-424
- XI. **A Resource Trading Framework for Cloudlets**
Alptekin G. I.
World Congress on Engineering and Computer Science, San-Francisco, Costa Rica, 21 - 23 October 2015, pp.743-747
- XII. **Towards a Green and Sustainable Software**
Acar H., ALPTEKİN G., Gelas J., Ghodous P.
22nd ISPE-Inc International Conference on Concurrent Engineering, Delft, Netherlands, 20 - 23 July 2015, vol.2,

pp.471-480

- XIII. **DESIGN OF SENSOR-BASED AUGMENTED REALITY SOFTWARE (SARAS)**
Erisik D., Karaman A., Alptekin G. I. , DURMAZ İNCEL Ö., Burcak O., Isbilen M.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,
pp.2218-2221
- XIV. **The Effect of Clustering in the Apriori Data Mining Algorithm: A Case Study**
Yilmaz N., Alptekin G. I.
World Congress on Engineering (WCE 2013), London, Canada, 3 - 05 July 2013, pp.1611-1612
- XV. **A Spectrum Trading Model with Strict Transmission Power Control**
Alptekin G. I. , Bener A. B.
IEEE Global Telecommunications Conference (GLOBECOM 2010), Florida, United States Of America, 6 - 10
December 2010
- XVI. **An integrated approach for defining pricing strategies in competitive markets**
Alptekin G. I. , ALPTEKİN S. E.
International Conference on Information, Process and Knowledge Management, Cancun, Mexico, 1 - 06 February
2009, pp.54-55
- XVII. **Product improvement by selecting appropriate suppliers: A case study**
ALPTEKİN S. E. , Alptekin G. I.
International Conference on Information, Process and Knowledge Management, Cancun, Mexico, 1 - 06 February
2009, pp.129-130
- XVIII. **An Integrated Evaluation Approach to Technological Innovation Risk Management**
BÜYÜKÖZKAN FEYZİOĞLU G., FEYZİOĞLU O., ALPTEKİN G.
1st International Conference on Risk Analysis and Crisis Response, Shanghai, China, 25 - 26 September 2007,
pp.138-143

Supported Projects

ALPTEKİN G., Project Supported by Higher Education Institutions, KİTLE KAYNAK YAZILIM GELİŞTİRMEDE EFOR TAHMİNİ VE KİTLE SEÇİM YAKLAŞIMLARI, 2017 - 2019

ALPTEKİN G., Project Supported by Higher Education Institutions, YENİ NESİL YAZILIM GELİŞTİRME YAKLAŞIMLARININ ANALİZİ VE YÖNETİMİ, 2016 - 2017

ALPTEKİN G., Project Supported by Higher Education Institutions, YAZILIM GELİŞTİRME SÜRECİNDE İYİLEŞTİRMELER, 2015 - 2017

ALPTEKİN G., Project Supported by Higher Education Institutions, ALGILAYICI ESASLI ARTTIRILMIŞ GERÇEKLİK UYGULAMASI YAZILIMI, 2015 - 2017

ALPTEKİN G., Project Supported by Higher Education Institutions, İLETİŞİM TEKNOLOJİLERİ VE YAZILIMDA ENERJİ VERİMLİLİĞİ, 2013 - 2016

ALPTEKİN G., Project Supported by Higher Education Institutions, PAZARLAMA VE FİYATLAMA PROBLEMLERİNDE VERİ MADENCİLİĞİ UYGULAMALARI, 2012 - 2013

ALPTEKİN G., Project Supported by Higher Education Institutions, ELEKTRONİK YAYINCILIK PAZARI İÇİN STRATEJİK ANALİZ MODELİ, 2011 - 2012

ALPTEKİN G., Project Supported by Higher Education Institutions, GÜÇ YÖNETİMİNİN SPEKTRUM TİCARETİNE ETKİLERİ, 2010 - 2012

Metrics

Publication: 28

Citation (WoS): 391

Citation (Scopus): 530

H-Index (WoS): 6

H-Index (Scopus): 7