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Education Information

Doctorate, Middle East Technical University, Graduate School of Informatics, Information Systems, Turkey 2016 - Continues

Postgraduate, Middle East Technical University, Graduate School of Informatics, Information Systems, Turkey 2013 - 2015

Undergraduate, Yeditepe University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, Turkey 2008 - 2013

Dissertations

Postgraduate, A cloud based architecture for distributed real time processing of continuous queries, Middle East Technical University, Graduate School of Informatics, Information Systems, 2015

Research Areas

Computer Sciences

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Graduate School of Informatics, Information Systems, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The development of data analytics maturity assessment framework: DAMAF**
Gokalp M. O., Gokalp E., GÖKALP S., KOÇYİĞİT A.
JOURNAL OF SOFTWARE-EVOLUTION AND PROCESS, vol.35, no.8, 2023 (SCI-Expanded)
- II. **The development of the data science capability maturity model: a survey-based research**
Gökalp M. O., Gokalp E., Kayabay K., Koçyiğit A., Eren P. E.
ONLINE INFORMATION REVIEW, vol.46, no.3, pp.547-567, 2022 (SCI-Expanded)

- III. **A process assessment model for big data analytics**
Gökalp M. O., Gökalp E., Kayabay K., Gökalp S., Koçyiğit A., Eren P. E.
Computer Standards and Interfaces, vol.80, 2022 (SCI-Expanded)
- IV. **Data science roadmapping: An architectural framework for facilitating transformation towards a data-driven organization**
Kayabay K., GÖKALP M. O., Gokalp E., EREN P. E., KOÇYIĞİT A.
TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE, vol.174, 2022 (SSCI)
- V. **Blockchain-Based Supply Chain Management: Understanding the Determinants of Adoption in the Context of Organizations**
Gokalp E., Gökalp M. O., Coban S.
INFORMATION SYSTEMS MANAGEMENT, vol.39, no.2, pp.100-121, 2022 (SCI-Expanded)
- VI. **Assessment of process capabilities in transition to a data-driven organisation: A multidisciplinary approach**
GÖKALP M. O., KAYABAY K., GÖKALP E., KOÇYIĞİT A., EREN P. E.
IET SOFTWARE, vol.15, no.6, pp.376-390, 2021 (SCI-Expanded)
- VII. **Data-driven manufacturing: An assessment model for data science maturity**
GÖKALP M. O., Gökalp E., KAYABAY K., KOÇYIĞİT A., EREN P. E.
Journal of Manufacturing Systems, vol.60, pp.527-546, 2021 (SCI-Expanded)
- VIII. **A visual programming framework for distributed Internet of Things centric complex event processing**
Gökalp M. O., Koçyiğit A., Eren P. E.
COMPUTERS & ELECTRICAL ENGINEERING, vol.74, pp.581-604, 2019 (SCI-Expanded)
- IX. **Analyzing the Impact of a Decision Support System on a Medium Sized Apparel Company**
GÖKALP E., GÖKALP M. O., EREN P. E.
EXPLORING INTELLIGENT DECISION SUPPORT SYSTEMS: CURRENT STATE AND NEW TRENDS, vol.764, pp.73-87, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **DİJİTAL DÖNÜŞÜMÜN ETKİSİNDE VERİMLİ İSTİHDAM YÖNETİMİ: YOL HARİTASI ÖNERİSİ**
Gökalp E., Gökalp M. O., Çoban S., Eren P. E.
Verimlilik Dergisi, no.3, pp.201-222, 2019 (Peer-Reviewed Journal)
- II. **Hazır Giyim ve Konfeksiyon Sektöründe Endüstri 4.0 Devrimi: Akıllı Konfeksiyon Fabrikası**
Gökalp E., Gökalp M. O., Eren P. E.
AJIT-e: Online Academic Journal of Information Technology, vol.10, no.37, 2019 (Peer-Reviewed Journal)
- III. **TIBBİ GÖRÜNTÜLEME ARAÇLARI İÇİN BULUT BİLİŞİM TABANLI ÖNGÖRÜCÜ BAKIM UYGULAMA ÇATISI**
Çoban S., Gökalp M. O., Gökalp E., Eren P. E.
Yönetim Bilişim Sistemleri Dergisi, vol.3, no.2, pp.76-90, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Industry 4.0 Revolution in Clothing and Apparel Factories: Apparel 4.0**
Gökalp E., Gökalp M. O., Eren P. E.
in: Industry 4.0 from the MIS Perspective, S. Gülseçen,Z.A. Reis,M. Gezer,Ç. Erol, Editor, Peter Lang Publishing, Inc, Berlin, pp.169-184, 2018
- II. **Big Data in mHealth**
Gökalp M. O., Kayabay K., Akyol M. A., Eren P. E., Koçyiğit A.
in: Current and Emerging mHealth Technologies, Emre Sezgin,Soner Yildirim,Sevgi Özkan-Yildirim,Evren Sumuer,

Editor, Springer, London/Berlin , Zug, pp.241-256, 2018

III. Current Research Topics in Industry 4.0 and an Analysis of Prominent Frameworks

Kayabay K., Akyol M. A., Gökalp M. O., Koçyiğit A., Eren P. E.

in: Industry 4.0 from the MIS Perspective, Sevinç Gülseçen, Zerrin Ayvaz Reis, Murat Gezer, Çiğdem Erol, Editor, Peter Lang Publishing, Inc., Berlin, pp.127-140, 2018

IV. Analyzing the Impact of a Decision Support System on a Medium Sized Apparel Company

Gökalp E., Gökalp M. O., Eren P. E.

in: Exploring Intelligent Decision Support Systems, Valencia-García R., Pilar Salas-Zárate M., Andrés Paredes-Valverde M., Alor-Hernández G., Editor, Springer, London/Berlin , Zug, pp.73-88, 2018

Refereed Congress / Symposium Publications in Proceedings

I. What Drives Success in Data Science Projects: A Taxonomy of Antecedents

Gökay G. T., Nazlıel K., Şener U., Gökalp Aydın E., Gökalp M. O., Gençal N., Dağdaş G., Eren P. E.

International Conference on Computing, Intelligence and Data Analytics, ICCIDA 2022, Kocaeli, Turkey, 16 - 17 September 2022, vol.643 LNNS, pp.448-462

II. Data Science Technology Selection: Development of a Decision-Making Approach

NAZLIEL K., KAYABAY K., Gokalp M. O., Gokalp E., EREN P. E.

IEEE-Technology-and-Engineering-Management-Society (IEEE TEMS) Technology and Engineering Management Conference - Europe (IEEE TEMSCON EUROPE), İzmir, Turkey, 25 - 29 April 2022, pp.172-178

III. Data Science Roadmapping: Towards an Architectural Framework

Kayabay K., Gökalp M. O., Gökalp E., Eren P. E., Koçyiğit A.

2020 IEEE International Conference on Technology Management, Operations and Decisions, ICTMOD 2020, Marrakech, Morocco, 24 - 27 November 2020

IV. Open-Source Big Data Analytics Architecture for Businesses

Gökalp M. O., Kayabay K., Koçyiğit A., Eren P. E.

2019 1st International Informatics and Software Engineering Conference (UBMYK), Ankara, Turkey, 6 - 07 November 2019

V. Towards a Model Based Process Assessment for Data Analytics: An Exploratory Case Study

Gökalp M. O., Kayabay K., Gökalp E., Koçyiğit A., Eren P. E.

27th European Conference on Systems, Software and Services Process Improvement, EuroSPI 2020, Düsseldorf, Germany, 9 - 11 September 2020, pp.617-628

VI. Open Government Data: Analysing Benefits and Challenges

Caldag M. T., Gökalp M. O., Gokalp E.

1st International Informatics and Software Engineering Conference, IISEC 2019, Ankara, Turkey, 6 - 07 November 2019

VII. Acceptance of Blockchain Based Supply Chain Management System: Research Model Proposal

Blokszincir Tabanlı Tedarik Zinciri Yönetimi Sistemi Kabulü: Arastirma Modeli Önerisi

Gokalp E., Coban S., Gökalp M. O.

1st International Informatics and Software Engineering Conference, IISEC 2019, Ankara, Turkey, 6 - 07 November 2019

VIII. A Workflow and Cloud Based Service-Oriented Architecture for Distributed Manufacturing in Industry 4.0 Context

KAYABAY K., GÖKALP M. O., EREN P. E., KOÇYIĞIT A.

11th IEEE International Conference on Service-Oriented Computing and Applications (SOCA), Paris, France, 19 - 22 November 2018, pp.88-92

IX. Dijital Dönüşümün İstihdama Etkisi: Mesleki Açından Fırsatlar ve Tehditler

Gökalp E., Gökalp M. O., Çoban S., Eren P. E.

Fifth International Management Information Systems Conference, Ankara, Turkey, 24 - 26 October 2018, pp.1-8

X. Büyük Veri Çağında İşletmelerde Veri Bilimi

Gökalp M. O., Kayabay K., Çoban S., Yandık Y. B., Eren P. E.

Fifth International Management Information Systems Conference, Ankara, Turkey, 24 - 26 October 2018, pp.1-4

- XI. **Analysing Opportunities and Challenges of Integrated Blockchain Technologies in Healthcare**
Gokalp E., GÖKALP M. O., Coban S., EREN P. E.
11th SIGSAND/PLAIS EuroSymposium on Systems Analysis and Design (SIGSAND/PLAIS EuroSymposium), Gdansk, Poland, 20 September 2018, vol.333, pp.174-183
- XII. **Predictive Maintenance in Healthcare Services with Big Data Technologies**
Coban S., Gökalp M. O., Gokalp E., Eren P. E., Koçyiğit A.
11th IEEE International Conference on Service-Oriented Computing and Applications (SOCA), Paris, France, 19 - 22 November 2018, pp.93-98
- XIII. **The Blockchain Technology in Healthcare:Analyzing Opportunities and Challenges**
Gökalp M. O., Çoban S., Eren P. E.
1st International Workshop Series on Digital Transformation and Artificial Intelligence, İstanbul, Turkey, 28 December 2017
- XIV. **Proposing a Holistic Framework for Smart City Initiatives**
Gökalp M. O.
1st International Workshop Series on Digital Transformation and Artificial Intelligence, İstanbul, Turkey, 28 December 2017
- XV. **A Predictive Maintenance Architecture for Health Domain in Big-data Era**
Selin Ç., Gökalp M. O., Eren P. E., Koçyiğit A.
International Workshop Series on Digital Transformation and Artificial Intelligence(IDITAI) Workshop 1:The Bases of Digital Transformation and Key Players, İstanbul, Turkey, 28 December 2017
- XVI. **Hazır Giyim Ve Konfeksiyon Fabrikalarında Endüstri 4.0 Devrimi: Konfeksiyon 4.0**
Gökalp E., Gökalp M. O., Eren P. E.
4th International ManagementInformation Systems Conference (IMISC'17), İstanbul, Turkey, 17 - 20 October 2017
- XVII. **Current Research Topics in Industry 4.0 and an Analysis ofProminent Architectural Frameworks**
KAYABAY K., AKYOL M. A., GÖKALP M. O., KOÇYİĞİT A., EREN P. E.
4th International Management Information Systems Conference 2017, 17 - 20 October 2017
- XVIII. **A Context Aware Notification Architecture Based on Distributed Focused Crawling in the Big Data Era**
AKYOL M. A., GÖKALP M. O., KAYABAY K., EREN P. E., KOÇYİĞİT A.
14th European, Mediterranean, and Middle Eastern Conference (EMCIS), Coimbra, Portugal, 7 - 08 September 2017, vol.299, pp.29-39
- XIX. **BIG DATA FOR INDUSTRY 4.0: A CONCEPTUAL FRAMEWORK**
GÖKALP M. O., KAYABAY K., AKYOL M. A., EREN P. E., KOÇYİĞİT A.
International Conference on Computational Science and Computational Intelligence (CSIC), Nevada, United States Of America, 15 - 17 December 2016, pp.431-434
- XX. **Geleceğin Kuruluşları İçin Büyük Veri Mevcut Durum ve Eğilimler**
Kayabay K., Gökalp M. O., Akyol M. A., Eren P. E., Koçyiğit A.
3rd International Management Information Systems Conference, İzmir, Turkey, 6 - 08 October 2016, pp.298-307
- XXI. **GELECEĞİN KURULUŞLARI İÇİN BÜYÜK VERİ MEVCUT DURUM VE EĞİLİMLER**
Kayabay K., Gökalp M. O., Akyol M. A., Eren P. E., Koçyiğit A.
3rd International Management Information Systems Conference, İzmir, Turkey, 6 - 08 October 2016
- XXII. **A Cloud Based Architecture for Distributed Real Time Processing of Continuous Queries**
GÖKALP M. O., KOÇYİĞİT A., EREN P. E.
41st Euromicro Conference on Software Engineering and Advanced Applications 2015, Funchal, Portugal, 26 - 28 August 2015, pp.459-462

Supported Projects

KOÇYİĞİT A., ŞENER U., TOPCU A. K., GÖKALP M. O., GÜMÜŞOĞLU A., EREN P. E., AKYOL M. A., KAYABAY K., Project Supported by Higher Education Institutions, Endüstri 4.0 için süreç modelleme tabanlı karar destek sistemi, 2018 - 2020
KOÇYİĞİT A., ŞENER U., TOPCU A. K., GÖKALP M. O., GÜMÜŞOĞLU A., EREN P. E., TILTAK D., AKYOL M. A., KAYABAY K., YANDIK Y. B., Project Supported by Higher Education Institutions, Endüstri 4.0 İçin Özelleştirilmiş Bir Süreç Modelleme ve Yönetim Çatısı, 2017 - 2019
EREN P. E., ŞENER U., GÖKALP M. O., AKYOL M. A., KAYABAY K., KOÇYİĞİT A., Project Supported by Higher Education Institutions, İşletmeler için Büyük Veri ve İş Analitiği Yaklaşımlarının İncelenmesi ve Çözüm Önerisi, 2016 - 2017
EREN P. E., ŞENER U., GÖKALP M. O., AKYOL M. A., KAYABAY K., KOÇYİĞİT A., Project Supported by Higher Education Institutions, Yaygın Bilişim Odaklı Servis Birleştirme Sistemi Tasarımı ve Uygulaması, 2015 - 2017
KOÇYİĞİT A., GÖKALP M. O., EREN P. E., Project Supported by Higher Education Institutions, Nesnelerin İnterneti ile Bulut Hesaplama Destekli Dinamik Servis Oluşturma, 2014 - 2015

Metrics

Publication: 39

Citation (WoS): 191

Citation (Scopus): 358

H-Index (WoS): 7

H-Index (Scopus): 10