

Lect. PhD KEREM KAYABAY

Personal Information

Email: kayabay@metu.edu.tr

Web: <https://avesis.metu.edu.tr/kayabay>

International Researcher IDs

ScholarID: OaQIPU4AAAAJ

ORCID: 0000-0002-3333-4248

Publons / Web Of Science ResearcherID: ABA-2271-2020

ScopusID: 57193878685

Yoksis Researcher ID: 214887

Education Information

Doctorate, Middle East Technical University, Graduate School Of Informatics, Information Systems, Turkey 2014 - Continues

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2007 - 2011

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Graduate School Of Informatics, Information Systems, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)

Books & Book Chapters

I. **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

II. **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 Ayzavaz Reis, Murat Gezer, Çiğdem Erol, Editor, Peter Lang Publishing, Inc., Berlin, pp.127-140, 2018

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **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

III. **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

IV. **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

V. **Open-Source Big Data Analytics Architecture for Businesses**

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

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

VI. **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

VII. **Current Research Topics in Industry 4.0 and an Analysis of Prominent Architectural Frameworks**

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

4th International Management Information Systems Conference 2017, 17 - 20 October 2017

VIII. **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., KOÇYIĞIT A.

14th European, Mediterranean, and Middle Eastern Conference (EMCIS), Coimbra, Portugal, 7 - 08 September 2017, vol.299, pp.29-39

IX. **BIG DATA FOR INDUSTRY 4.0: A CONCEPTUAL FRAMEWORK**

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

International Conference on Computational Science and Computational Intelligence (CSIC), Nevada, United States Of America, 15 - 17 December 2016, pp.431-434

X. **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

XI. 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

Supported Projects

KOÇYIĞIT 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

KOÇYIĞIT 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., KOÇYIĞIT 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., KOÇYIĞIT A., Project Supported by Higher Education Institutions, Yaygın Bilişim Odaklı Servis Birleştirme Sistemi Tasarımı ve Uygulaması, 2015 - 2017

EREN P. E., ŞENER U., KAYABAY K., KOÇYIĞIT A., Project Supported by Higher Education Institutions, Bulut Tabanlı Kurumsal Yönetim Bilişim Sistemlerinin Kullanımının İncelenmesi, 2016 - 2016

Metrics

Publication: 19

Citation (WoS): 64

Citation (Scopus): 91

H-Index (WoS): 4

H-Index (Scopus): 5