

## Prof. PEKİN ERHAN EREN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-4438-2020

ScopusID: 6603471003

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### Education Information

Doctorate, University of Rochester, Elektrik Mühendisliği, United States Of America 1995 - 2002

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1990 - 1994

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Object-Based Digital Video Analysis and Manipulation For Multimedia Applications, University Of Rochester, Elektrik Mühendisliği, 2002

### Research Areas

Management Information Systems

### Academic Titles / Tasks

Professor, Middle East Technical University, Graduate School of Informatics, Information Systems, 2023 - Continues

Associate Professor, Middle East Technical University, Graduate School of Informatics, Information Systems, 2017 - 2023

Assistant Professor, Middle East Technical University, Graduate School of Informatics, Information Systems, 2008 - 2017

Lecturer, Middle East Technical University, Graduate School of Informatics, Information Systems, 2006 - 2008

## Academic and Administrative Experience

Head of Department, Middle East Technical University, Graduate School of Informatics, Data Informatics, 2021 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Graduate School of Informatics, Information Systems, 2020 - Continues

## Courses

CLOUD COMPUTING: TECHNOLOGY AND BUSINESS , Postgraduate, 2023 - 2024

TECHNOLOGY ENTREPRENEURSHIP AND LEAN STARTUPS , Postgraduate, 2023 - 2024

## Advising Theses

Eren P. E., Gökalp E., Developing an architectural framework for facilitating transformation towards data-driven organizations, Doctorate, K.KAYABAY(Student), 2022

EREN P. E., A mobile flexible business process management system supporting daily life processes and decisions, Doctorate, S.ORUÇ(Student), 2021

EREN P. E., A context aware notification framework based on distributed focused crawling, Postgraduate, M.ALİ(Student), 2017

EREN P. E., A promotion-aware purchase decision aid for consumers, Postgraduate, K.AKHÜSEYİNOĞLU(Student), 2016

EREN P. E., Promotion-aware purchase decision aid for consumers, Postgraduate, K.Akhüseyinoğlu(Student), 2016

EREN P. E., A quality model for cloud-based enterprise information systems, Postgraduate, U.ŞENER(Student), 2016

EREN P. E., MobileCDP: A mobile framework for the consumer decision process, Doctorate, S.ÖZARSLAN(Student), 2015

EREN P. E., A context-aware mobile event notification system using the publish-subscribe model with a business rule engine and linked data, Postgraduate, M.GÜRGAH(Student), 2014

EREN P. E., A flexible semantic service composition framework for pervasive computing environments, Postgraduate, M.ÖZPINAR(Student), 2014

EREN P. E., A context-aware and workflow-based framework for pervasive environments, Doctorate, B.AVENOĞLU(Student), 2014

EREN P. E., A multimodal sensor analysis framework for vehicular mobile applications, Postgraduate, F.ORHAN(Student), 2013

EREN P. E., YARMAN VURAL F. T., Self-supervised building detection with decision fusion, Doctorate, Ç.ŞENARAS(Student), 2013

EREN P. E., A workflow-based mobile guidance framework for managing personal activities, Postgraduate, G.TÜYSÜZ(Student), 2013

EREN P. E., A Context aware emergency management system using mobile computing, Postgraduate, O.Ceran(Student), 2013

EREN P. E., A complex event processing framework implementation using heterogeneous devices in smart environments, Postgraduate, M.Özge(Student), 2012

EREN P. E., KOÇYİĞİT A., Energy efficient wireless sensor network clustering algorithms and their real life performance evaluation, Postgraduate, M.Erhan(Student), 2012

EREN P. E., Modelling mobile telecommunications services for forecasting purposes: A cross-country analysis, Postgraduate, E.ESER(Student), 2012

EREN P. E., A certificate based authentication control model using smart mobile devices for ubiquitous computing environments, Postgraduate, D.Çavdar(Student), 2011

EREN P. E., Utility analysis and computer simulation of RFID technologies in the supply chain applications of production systems, Postgraduate, Y.Bolath(Student), 2009

EREN P. E., An extensible framework for automated network attack signature generation, Postgraduate, S.Kenar(Student), 2009

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, December, 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **CLOUD-QM: a quality model for benchmarking cloud-based enterprise information systems**  
ŞENER U., GÖKALP AYDIN E., EREN P. E.  
Software Quality Journal, vol.32, no.3, pp.881-920, 2024 (SCI-Expanded)
- II. **Increasing the collaboration of data science stakeholders with a knowledge management system**  
CİVELEK U., EREN P. E., Gökalp M. O.  
Business Process Management Journal, 2024 (SSCI)
- III. **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)
- IV. **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)
- V. **Data science roadmapping: An architectural framework for facilitating transformation towards a data-driven organization**  
Kayabay K., GÖKALP M. O., Gokalp E., EREN P. E., KOÇYIĞIT A.  
TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE, vol.174, 2022 (SSCI)
- VI. **A constraint programming model for making recommendations in personal process management: A design science research approach**  
Oruç S., Eren P. E., Koçyiğit A.  
DECISION SUPPORT SYSTEMS, vol.152, 2022 (SCI-Expanded)
- VII. **Assessment of process capabilities in transition to a data-driven organisation: A multidisciplinary approach**  
GÖKALP M. O., KAYABAY K., GÖKALP E., KOÇYIĞIT A., EREN P. E.  
IET SOFTWARE, vol.15, no.6, pp.376-390, 2021 (SCI-Expanded)
- VIII. **Data-driven manufacturing: An assessment model for data science maturity**  
GÖKALP M. O., Gökalp E., KAYABAY K., KOÇYIĞIT A., EREN P. E.  
Journal of Manufacturing Systems, vol.60, pp.527-546, 2021 (SCI-Expanded)
- IX. **Public Personnel Management Process Capability Assessment**  
GÖKALP E., DEMİRÖRS O., EREN P. E.  
PUBLIC PERSONNEL MANAGEMENT, vol.49, no.1, pp.111-140, 2020 (SSCI)
- X. **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)
- XI. **A context-aware and workflow-based framework for pervasive environments**  
Avenoglu B., Eren P. E.  
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.10, pp.215-237, 2019 (SCI-Expanded)
- XII. **MobileCDP: A mobile framework for the consumer decision process**  
Ozarslan S., EREN P. E.  
INFORMATION SYSTEMS FRONTIERS, vol.20, no.4, pp.803-824, 2018 (SCI-Expanded)
- XIII. **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)

- XIV. **What installed mobile applications tell about their owners and how they affect users' download behavior**  
ÜNAL P., Temizel T., EREN P. E.  
TELEMATICS AND INFORMATICS, vol.34, no.7, pp.1153-1165, 2017 (SSCI)
- XV. **A hybrid approach for predicting customers' individual purchase behavior**  
Peker S., KOÇYİĞİT A., EREN P. E.  
KYBERNETES, vol.46, no.10, pp.1614-1631, 2017 (SCI-Expanded)
- XVI. **LRFMP model for customer segmentation in the grocery retail industry: a case study**  
Peker S., KOÇYİĞİT A., EREN P. E.  
MARKETING INTELLIGENCE & PLANNING, vol.35, no.4, pp.544-559, 2017 (SSCI)
- XVII. **An adaptive mobile cloud computing framework using a call graph based model**  
Kaya M., KOÇYİĞİT A., EREN P. E.  
JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, vol.65, pp.12-35, 2016 (SCI-Expanded)
- XVIII. **Bi-directional 2-D mesh representation for video object rendering, editing and superresolution in the presence of occlusion**  
EREN P. E., Tekalp A.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.18, no.5, pp.321-336, 2003 (SCI-Expanded)
- XIX. **Region-based parametric motion segmentation using color information**  
Altunbasak Y., EREN P. E., Tekalp A.  
GRAPHICAL MODELS AND IMAGE PROCESSING, vol.60, no.1, pp.13-23, 1998 (SCI-Expanded)
- XX. **Robust, object-based high-resolution image reconstruction from low-resolution video**  
EREN P. E., Sezan M., Tekalp A.  
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.6, no.10, pp.1446-1451, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **DIGITAL MATURITY INDEX: A QUANTITATIVE METHOD TO INCREASE EFFICIENCY IN ORGANIZATIONS' DIGITAL TRANSFORMATION JOURNEY**  
Şener U., Gokalp E., Eren P. E.  
Verimlilik Dergisi, vol.0, no.Dijital Dönüşüm ve Verimlilik, pp.17-29, 2022 (Peer-Reviewed Journal)
- II. **Acceptance of Virtual Reality Games: A Multi-Theory Approach**  
Kosa M., Uysal A., EREN P. E.  
INTERNATIONAL JOURNAL OF GAMING AND COMPUTER-MEDIATED SIMULATIONS, vol.12, no.1, pp.43-70, 2020 (ESCI)
- III. **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)
- IV. **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)
- V. **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)
- VI. **Impact of Pervasive Computing on Service Design in Hospitality**  
GÖKALP E., EREN P. E.  
Journal of Advanced Management Science, vol.1, no.2, pp.241-245, 2013 (Peer-Reviewed Journal)
- VII. **Enterprise Cloud Computing in Hospitality**  
GOKALP E., EREN P. E.

## Books & Book Chapters

- I. **Intelligent Digital Transformation Strategy Management: Development of a Measurement Framework**  
ŞENER U., GÖKALP AYDIN E., EREN P. E.  
in: Intelligent Systems in Digital Transformation, Kahraman Cengiz, Haktanır Elif, Editor, Springer International Publishing, pp.77-93, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Edge Computing Applications in Industrial IoT: A Literature Review**  
Bayar A., Şener U., Kayabay K., Eren P. E.  
19th International Conference on the Economics of Grids, Clouds, Systems, and Services, GECON 2022, Izola, Slovenia, 13 - 15 September 2022, vol.13430 LNCS, pp.124-131
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **A reference model for personal process management (PPM) Systems**  
Oruc S., Eren P. E., Koçyiğit A.  
14th Iberian Conference on Information Systems and Technologies, CISTI 2019, Coimbra, Portugal, 19 - 22 June 2019
- IX. **A Taxonomy for Personal Processes: Results from a Semi-structured Interview**  
Oruç S., Eren P. E., Koçyiğit A., Yeralan S.  
18th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2019, Trondheim, Norway, 18 - 20 September 2019, pp.771-782
- X. **A Workflow and Cloud Based Service-Oriented Architecture for Distributed Manufacturing in**

## **Industry 4.0 Context**

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

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

- XI. **A methodology for product segmentation using sale transactions**  
Peker S., KOÇYIĞİT A., Erhan Eren P. E.  
41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018, Opatija, Croatia, 21 - 25 May 2018, pp.1249-1253
- XII. **An empirical comparison of customer behavior modeling approaches for shopping list prediction**  
Peker S., KOÇYIĞİT A., Erhan Eren P. E.  
41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018, Opatija, Croatia, 21 - 25 May 2018, pp.1220-1225
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **Hazır Giyim Ve Konfeksiyon Fabrikalarında Endüstri 4.0 Devrimi: Konfeksiyon 4.0**  
Gökalp E., Gökalp M. O., Eren P. E.  
4th International Management Information Systems Conference (IMISC'17), İstanbul, Turkey, 17 - 20 October 2017
- XVIII. **Current Research Topics in Industry 4.0 and an Analysis of Prominent Architectural Frameworks**  
KAYABAY K., AKYOL M. A., GÖKALP M. O., KOÇYIĞİT A., EREN P. E.  
4th International Management Information Systems Conference 2017, 17 - 20 October 2017
- XIX. **Endüstri 4.0 için Olgunluk Modeli: Sistemik Literatür Taraması ve Model Önerisi**  
ŞENER U., Gökalp E., EREN P. E.  
The 4th International Management Information Systems Conference (IMISC2017), 17 - 20 October 2017
- XX. **Development of an Assessment Model for Industry 4.0: Industry 4.0-MM**  
Gokalp E., Şener U., Eren P. E.  
17th International Conference on Software Process Improvement and Capability Determination (SPICE), Palma de Mallorca, Spain, 4 - 05 October 2017, vol.770, pp.128-142
- XXI. **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., KOÇYIĞİT A.  
14th European, Mediterranean, and Middle Eastern Conference (EMCIS), Coimbra, Portugal, 7 - 08 September 2017, vol.299, pp.29-39
- XXII. **Exploring behavior change features for mobile workout applications**  
ÜNAL P., Cavdar S. K., Temizel T., EREN P. E., IYENGAR S.  
14th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2017, Prague, Czech Republic, 21 - 23 August 2017, pp.45-53
- XXIII. **CloudSS: A decision support system for cloud service selection**

ŞENER U., GÖKALP E., EREN P. E.

14th International Conference on the Economics of Grids, Clouds, Systems, and Services, GECON 2017, Biarritz, France, 19 - 21 September 2017, pp.249-261

**XXIV. 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

**XXV. Smart Residence Management System RMS with Personalized Comfort**

Ay M. B., Gökalp E., EREN P. E., TANYER A. M.

3rd International Management Information Systems Conference - Smart Technology - Smart Management, İzmir, Turkey, 6 - 08 October 2016, pp.255-265

**XXVI. Cloud-Based Enterprise Information Systems: Determinants of Adoption in the Context of Organizations**

Şener U., Gokalp E., Eren P. E.

22nd International Conference on Information and Software Technologies (ICIST), Druskininkai, Lithuania, 13 - 15 October 2016, vol.639, pp.53-66

**XXVII. 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

**XXVIII. Akıllı Teknolojilerin Turizm ve Otelcilik Sektöründe Uygulanması**

GÖKALP E., EREN P. E.

3rd International Management Information Systems Conference, 6 - 08 October 2016

**XXIX. Bulut Tabanlı Kurumsal Bilgi Sistemlerinin Benimsenmesini Etkileyen Faktörlerin Değerlendirilmesi**

ŞENER U., GÖKALP E., EREN P. E.

3rd International Management Information Systems Conference, 6 - 08 October 2016

**XXX. Bulut Tabanlı Bilgi Sistemlerinin Benimsenmesini Etkileyen Faktörlerin Değerlendirilmesi**

ŞENER U., GÖKALP E., EREN P. E.

3rd INTERNATIONAL MANAGEMENT INFORMATION SYSTEMS CONFERENCE, 6 - 08 October 2016

**XXXI. 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

**XXXII. A Software Development Process Model for Cloud by Combining Traditional Approaches**

Hacaloglu T., EREN P. E., Mishra D., Mishra A.

OnTheMove (OTM) Federated Conference, Rhodes, Greece, 26 - 30 October 2015, vol.9416, pp.421-430

**XXXIII. Robust region based high resolution image reconstruction from low resolution video**

EREN P. E., SEZAN I., TEKALP A. M.

Proceedings of 3rd IEEE International Conference on Image Processing, Lausanne, Switzerland, 16 September 1996 - 19 September 2015, pp.709-712

**XXXIV. A Cloud Based Architecture for Distributed Real Time Processing of Continuous Queries**

GÖKALP M. O., KOÇYIĞIT A., EREN P. E.

41st Euromicro Conference on Software Engineering and Advanced Applications 2015, Funchal, Portugal, 26 - 28 August 2015, pp.459-462

**XXXV. A Study on User Perception of Mobile Commerce for Android and iOS Device Users**

ÜNAL P., TAŞKAYA TEMİZEL T., EREN P. E.

12th International Conference on Mobile Web and Intelligent Information Systems, Roma, 24 - 26 August 2015, vol.9228, pp.63-73

**XXXVI. Improvement Of Service Quality By Using Ubiquitous Computing In Hospitality**

GÖKALP E., EREN P. E.

8th Mediterranean Conference on Information Systems, Verona, Italy, 3 - 05 September 2014

**XXXVII. A Mobile Computing Framework Based on Adaptive Mobile Code Offloading**

Kaya M., KOÇYIĞIT A., EREN P. E.

40th Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Verona, Italy, 27 - 29 August 2014, pp.479-482

- XXXVIII. **A Certificate based Context Aware Access Control Model For Smart Mobile Devices In Ubiquitous Computing Environments**  
ÇAVDAR D., YORTANLI A., EREN P. E., KOÇYİĞİT A.  
UBICOMM 2014 : The Eighth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies, ROMA, Italy, 24 - 28 August 2014, pp.16-22
- XXXIX. **An Exploratory Study on the Outcomes of Influence Strategies in Mobile Application Recommendations**  
ÜNAL P., TAŞKAYA TEMİZEL T., EREN P. E.  
Second International Workshop on Behavior Change Support Systems (BCSS2014), Padua, Italy, 22 - 23 May 2014, pp.27-40
- XL. **Text recognition and correction for automated data collection by mobile devices**  
Ozarslan S., EREN P. E.  
Conference on Imaging and Multimedia Analytics in a Web and Mobile World, San-Francisco, Costa Rica, 5 - 06 February 2014, vol.9027
- XLII. **Comparison of approaches for mobile document image analysis using server supported smartphones**  
Ozarslan S., EREN P. E.  
Conference on Digital Photography X, San-Francisco, Costa Rica, 3 - 05 February 2014, vol.9023
- XLIII. **Multi-frame knowledge based text enhancement for mobile phone captured videos**  
Ozarslan S., EREN P. E.  
Conference on Mobile Devices and Multimedia - Enabling Technologies, Algorithms, and Applications, San-Francisco, Costa Rica, 3 - 05 February 2014, vol.9030
- XLIV. **On-road Anomaly Detection by Multimodal Sensor Analysis and Multimedia Processing**  
Orhan F., EREN P. E.  
Conference on Video Surveillance and Transportation Imaging Applications, San-Francisco, Costa Rica, 3 - 05 February 2014, vol.9026
- XLV. **A Workflow Based Mobile Guidance Framework for Managing Personal Activities**  
TÜYSÜZ G., AVENOĞLU B., EREN P. E.  
2013 Seventh International Conference on Next Generation Mobile Apps, Services and Technologies, Prague, Czech Republic, 25 - 27 September 2013
- XLVI. **Road Hazard Detection and Sharing with Multimodal Sensor Analysis on Smartphones**  
ORHAN F., EREN P. E.  
2013 Seventh International Conference on Next Generation Mobile Apps, Services and Technologies, Prague, Czech Republic, 25 - 27 September 2013
- XLVII. **A Mobile Participatory Framework for the Consumer Decision Process**  
ÖZARSLAN S., EREN P. E.  
2013 Seventh International Conference on Next Generation Mobile Apps, Services and Technologies, Prague, Czech Republic, 25 - 27 September 2013
- XLVIII. **A Complex Event Processing Based Framework for Intelligent Environments**  
Avenoglu B., EREN P. E.  
9th International Conference on Intelligent Environments (IE), Athens, Greece, 16 - 19 July 2013, vol.17, pp.12-23
- XLIX. **A multi modal sensor analysis framework for in car mobile applications**  
ORHAN F., EREN P. E.  
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013
- XLX. **A complex event processing based framework implementation for ambient intelligence**  
ÖZLÜ F., AVENOĞLU B., EREN P. E.  
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013



- L. **Text recognition and correction for automated data collection in participatory sensing applications**  
ÖZARSLAN S., EREN P. E.  
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013
- LI. **Modelling And Forecasting Mobile Telecommunications Services A Cross country Analysis**  
ESER E., EREN P. E.  
Annual International Symposium on Forecasting, Boston, United States Of America, 24 - 27 June 2012
- LII. **Home and Person Focused Event Framework**  
EREN P. E., Wodka J., Stewart D.  
International Symposium on Applications and the Internet Workshops (SAINTW'06), Phoenix, AZ, United States Of America, 23 - 27 January 2006, pp.130-133
- LIII. **Visualization of Events for Detection of Relevant Patterns**  
Wodka J., Stewart D., EREN P. E.  
Ninth IASTED International Conference Software Engineering and Applications, Phoenix, AZ, United States Of America, 14 - 16 November 2005, pp.434-437
- LIV. **Keyframe based bi directional 2 D mesh representation for video object tracking and manipulation**  
EREN P. E., TEKALP A. M.  
Proceedings 1999 International Conference on Image Processing (Cat. 99CH36348), Kobe, Japan, 24 - 28 October 1999, pp.968-972
- LV. **Interactive object based analysis and manipulation of digital video**  
EREN P. E., Zhuang N., Fu Y., TEKALP A. M.  
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## Supported Projects

KOÇYIĞİT 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

KOÇYIĞİT 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., Project Supported by Higher Education Institutions, Mevzuat ve Yönetmeliklerden Süreç Ontolojisi Oluşturma Yöntemi, 2016 - 2017

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

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  
EREN P. E., KOÇYİĞİT A., Project Supported by Higher Education Institutions, Akıllı Ofis ve Bina Ortamları İçin Mobil Cihaz Tabanlı İş Akışı Otomasyon Sistemi Geliştirilmesi, 2013 - 2015  
EREN P. E., KOÇYİĞİT A., Project Supported by Higher Education Institutions, Akıllı Ev Ve Ofis Ortamları İçin Mobil Cihaz Tabanlı Erişim Kontrol Sistemi Tasarımı Ve Gerçekleşmesi, 2012 - 2014  
EREN P. E., Project Supported by Higher Education Institutions, Yaygın Bilişim Ortamları İçin Kuaral Tabanlı Sonuç, 2011 - 2012

## **Tasks In Event Organizations**

Özkan Yıldırım S., Eren P. E., 5th International Conference on Management Information Systems (IMISC 2018), Scientific Congress, Ankara, Turkey, Ekim 2018

## **Metrics**

Publication: 98  
Citation (WoS): 586  
Citation (Scopus): 1060  
H-Index (WoS): 11  
H-Index (Scopus): 16

## **Non Academic Experience**

MOTOROLA RESEARCH LABS  
UNIVERSITY OF ROCHESTER  
EASTMAN KODAK RESEARCH LABS  
UNIVERSITY OF ROCHESTER