

## Assoc. Prof. FATİH ABUT

### Personal Information

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**Address:** Çukurova Üniversitesi Mühendislik Fakültesi Bilgisayar Mühendisliği Bölümü 01330 Balcalı Sarıçam Adana

### International Researcher IDs

ScholarID: -kdL\_XYAAAAJ

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Yoksis Researcher ID: 273260

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2014 - 2017

Doctorate, Rheinisch-Westfaelische Technische Hochschule Aachen, Bilgisayar Bilimi, Germany 2013 - 2014

Postgraduate, Fachhochschule Bonn Rhein Sieg, Bilgisayar Bilimi, Germany 2008 - 2010

Undergraduate, Fachhochschule Bonn Rhein Sieg, Bilgisayar Bilimi, Germany 2005 - 2008

### Foreign Languages

German, C2 Mastery

English, C1 Advanced

### Certificates, Courses and Trainings

IT, Operational Efficiencies of Multi-Link Capabilities, Atheniem Ltd., 2016

IT, ISO/IEC 12207 - Systems and software engineering / Software life cycle processes, NITELIK Software Consultancy, 2015

IT, IPv6 Deployment on Internet Service Providers Networks - Strategies for the Migration, ExperTeach Networking GmbH, 2012

IT, Cisco Certified Network Associate (CCNA) Training Series 1, 2, 3 and 4, Fachhochschule Bonn Rhein Sieg, 2007

### Dissertations

Doctorate, Development of new hybrid models for prediction of VO2max using machine learning methods combined with feature selection algorithms, Cukurova University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2017

Postgraduate, Messen von Internet-Bandbreite: Metriken, Methoden und Tools, Fachhochschule Bonn Rhein Sieg, Bilgisayar Bilimi, 2010

### Research Areas

Wireless Communication, Information Security and Reliability, Computer Networks, Communications and Network Protocols, Data Routing, Network Architecture, Artificial Intelligence, Computer Learning and Pattern Recognition

## Academic Titles / Tasks

Associate Professor, Cukurova University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2021 - Continues

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2020 - 2021

Assistant Professor, Adana Alparslan Türkeş Science And Technology University, Faculty Of Engineering, Department Of Computer Engineering, 2017 - 2020

Research Assistant, Fachhochschule Bonn Rhein Sieg, Bilgisayar Bilimi, 2009 - 2010

## Academic and Administrative Experience

Deputy Head of Department, Cukurova University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2020 - Continues

Koordinatör, Adana Science And Technology University, Rectorate, Sosyal Destek (SODES) Programı Koordinatörlüğü, 2018 - 2020

## Courses

Network Management and Administration, Undergraduate, 2021 - 2022

Cyber Security, Undergraduate, 2021 - 2022

Algorithms, Undergraduate, 2021 - 2022

Internet Communication, Undergraduate, 2021 - 2022

Network Management and Administration, Postgraduate, 2019 - 2020

Network Security, Postgraduate, 2018 - 2019

Network Security, Undergraduate, 2018 - 2019

Network Programming, Undergraduate, 2018 - 2019

Graduation Project, Undergraduate, 2019 - 2020

Web Design and Programming, Undergraduate, 2019 - 2020

Ağ Güvenliği, Postgraduate, 2018 - 2019

Software Engineering, Undergraduate, 2018 - 2019

Computer Networks, Undergraduate, 2018 - 2019

Introduction to Programming, Undergraduate, 2017 - 2018

Higher Layer Network Protocols, Postgraduate, 2018 - 2019

Object-oriented Programming, Undergraduate, 2017 - 2018

Software Engineering, Undergraduate, 2017 - 2018

Introduction to Algorithms and Programming, Undergraduate, 2017 - 2018

## Advising Theses

Abut F., Anomaly-Based Intrusion Detection Using Machine Learning Methods, Postgraduate, Ş.OSMAN(Student), Continues

Abut F., Shellcode Attack Detection from Network Traffic Data Using Machine Learning Methods, Postgraduate, İ.ALKANATRI(Student), Continues

Abut F., Detecting Cardiovascular Disease Using Machine Learning Methods, Postgraduate, M.ELSELLUM(Student), Continues

Abut F., Predicting COVID-19 Infection Using Machine Learning and Feature Selection Methods, Postgraduate, U.Ahmet(Student), 2022

## Jury Memberships

Post Graduate, Post Graduate, Adana Bilim Ve Teknoloji Üniversitesi, May, 2019

Post Graduate, Post Graduate, Çukurova Üniversitesi, July, 2018

Post Graduate, Post Graduate, Çukurova Üniversitesi, June, 2018

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

- I. **Development of New Electricity System Marginal Price Forecasting Models Using Statistical and Artificial Intelligence Methods**  
Kızıldağ M., ABUT F., AKAY M. F.  
Applied Sciences (Switzerland), vol.14, no.21, 2024 (SCI-Expanded)
- II. **Harnessing AI for Health: Optimized Neural Network Models for Resting Metabolic Rate Prediction**  
ABUT F., Akca E., Fatih Akay M., Irmak M., Irmak M., Adiguzel Y.  
IEEE Access, 2024 (SCI-Expanded)
- III. **Non-exercise-based racing time prediction of cross-country skiers using machine learning methods combined with Relief-F feature selection**  
Abut F., Akay M., Daneshvar S., Özcan A., Heil D.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART P, JOURNAL OF SPORTS ENGINEERING AND TECHNOLOGY, vol.0, no.0, pp.1-14, 2023 (SCI-Expanded)
- IV. **Development of a Neural Network Algorithm for Estimating the Makespan in Jobshop Production Scheduling**  
Yıldız İ., Saygın A., Çolak S., Abut F.  
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.40, no.4, pp.1257-1264, 2023 (SCI-Expanded)
- V. **mlCoCoA: a machine learning-based congestion control for CoAP**  
Demir A. K., ABUT F.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.5, pp.2863-2882, 2020 (SCI-Expanded)
- VI. **FACEST: feedback-assisted estimation of end-to-end capacity in IP-based communication networks**  
ABUT F.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.4, pp.1803-1823, 2020 (SCI-Expanded)
- VII. **A robust ensemble feature selector based on rank aggregation for developing new VO(2)max prediction models using support vector machines**  
Abut F., AKAY M. F., George J.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.5, pp.3648-3664, 2019 (SCI-Expanded)
- VIII. **A distributed measurement architecture for inferring TCP round-trip times through passive measurements**  
Abut F.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.3, pp.2106-2120, 2019 (SCI-Expanded)
- IX. **Support vector machines for predicting the hamstring and quadriceps muscle strength of college-aged athletes**  
AKAY M. F., Abut F., Cetin E., Yarim I., Sow B.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.4, pp.2567-2582, 2017 (SCI-Expanded)
- X. **Developing new VO(2)max prediction models from maximal, submaximal and questionnaire variables using support vector machines combined with feature selection**  
Abut F., AKAY M. F., George J.

COMPUTERS IN BIOLOGY AND MEDICINE, vol.79, pp.182-192, 2016 (SCI-Expanded)

- XI. **Identifying the discriminative predictors of upper body power of cross-country skiers using support vector machines combined with feature selection**  
AKAY M. F., Abut F., Ozciloglu M., Heil D.  
NEURAL COMPUTING & APPLICATIONS, vol.27, no.6, pp.1785-1796, 2016 (SCI-Expanded)
- XII. **Prediction of Upper Body Power of Cross-Country Skiers Using Support Vector Machines**  
AKAY M. F., Abut F., Daneshvar S., Heil D.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.40, no.4, pp.1045-1055, 2015 (SCI-Expanded)
- XIII. **PREDICTING THE PERFORMANCE MEASURES OF A 2-DIMENSIONAL MESSAGE PASSING MULTIPROCESSOR ARCHITECTURE BY USING MACHINE LEARNING METHODS**  
AKAY M. F., Acı Ç., Abut F.  
NEURAL NETWORK WORLD, vol.25, no.3, pp.241-265, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **SOBE: A Fraud Detection Platform in Insurance Industry**  
Özcan H. O., Çolak İ., Erimhan S., Güneş V., Akay M. F., Abut F.  
Kocaeli Journal of Science and Engineering, vol.0, no.0, pp.1-7, 2022 (Peer-Reviewed Journal)
- II. **Brand Propensity Prediction with Click-Through Rate as a Target**  
Uzel A., Pekel K., Akay M. F., Abut F.  
Kocaeli Journal of Science and Engineering, vol.0, no.0, pp.1-6, 2022 (Peer-Reviewed Journal)
- III. **Predicting COVID-19 Infection Using Machine Learning Methods Combined with Feature Selection**  
Çetin U. A., Abut F.  
Avrupa Bilim ve Teknoloji Dergisi, vol.37, pp.52-58, 2022 (Peer-Reviewed Journal)
- IV. **Forecasting Call Center Arrivals Using XGBoost Combined with Consecutive and Periodic Lookback**  
Tartuk M., Nurdağ T. F., Acar V., Erdem S., Akay M. F., Abut F.  
Eastern Anatolian Journal of Science, vol.8, no.1, pp.20-25, 2022 (Peer-Reviewed Journal)
- V. **Assessing household damages using multi-model deep learning pipeline**  
Kıyıkçı F., Cunedioğlu H. O., Koşar E., Bekin M. E., Abut F., Akay M. F.  
European Mechanical Science, vol.6, no.2, pp.138-142, 2022 (Peer-Reviewed Journal)
- VI. **A Survey of Recent Studies on COVID-19 Outbreak Prediction Using Statistical and Machine Learning Methods**  
Çetin U. ,, Abut F.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.3, pp.484-495, 2022 (Peer-Reviewed Journal)
- VII. **Developing an Automation System for Conflictual Returns Using Machine Learning**  
KILIÇ E. M., ALP M. N., TUNÇ A. A., ABUT F., AKAY M. F.  
Cukurova University Journal of Natural and Applied Sciences, 2022 (Peer-Reviewed Journal)
- VIII. **Türkiye'de Mutluluk Düzeyini Etkileyen Faktörlerin Makine Öğrenme ve Nitelik Seçme Algoritmaları ile Belirlenmesi**  
Yıldız İ., Abut F.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.1, pp.1-9, 2022 (Peer-Reviewed Journal)
- IX. **Developing Turkish sentiment analysis models using machine learning and e-commerce data**  
DEMIRCAN M., SELLER A., ABUT F., AKAY M. F.  
International Journal of Cognitive Computing in Engineering, vol.2, pp.202-207, 2021 (Scopus)
- X. **C-Scripter: A Dynamic Call Center Scripting Application**  
TARTUK M., NURDAĞ T. F., ABUT F., AKAY M. F., ERDEM S.  
Eastern Anatolian Journal of Science, vol.7, no.1, pp.1-5, 2021 (Peer-Reviewed Journal)
- XI. **Autonomous Navigation in Search and Rescue Simulated Environment using Deep Reinforcement**

## **Learning**

ABDAH M., ABUT F., AKAY M. F.

Balkan Journal of Electrical and Computer Engineering, vol.9, no.2, pp.92-98, 2021 (Peer-Reviewed Journal)

- XII. **Data-Driven Modelling and Prediction of CoAP Throughput in a Grid Network Topology**  
Demir A. K., Abut F.  
El-Cezeri Fen ve Mühendislik Dergisi, vol.7, no.1, pp.295-303, 2020 (Scopus)
- XIII. **User-level Performance Evaluation of VoIP under Different Background TCP Traffic Conditions in ns-2**  
ABUT F.  
European Journal of Science and Technology, vol.16, pp.638-645, 2019 (Peer-Reviewed Journal)
- XIV. **Comparison of CoAP and CoCoA Congestion Control Mechanisms in Grid Network Topologies**  
DEMİR A. K., ABUT F.  
Gümüşhane University Journal of Science and Technology Institute, pp.53-60, 2018 (Peer-Reviewed Journal)
- XV. **Through the Diversity of Bandwidth-Related Metrics, Estimation Techniques and Tools: An Overview**  
Abut F.  
International Journal of Computer Network and Information Security, vol.10, no.8, pp.1-16, 2018 (Scopus)
- XVI. **An Experimental Evaluation of Tools for Estimating Bandwidth-Related Metrics**  
Abut F., Leischner M.  
International Journal of Computer Network and Information Security, vol.10, no.8, pp.1-11, 2018 (Scopus)
- XVII. **Predicting Student's Pass/Fail Status in an Academic Course Using Deep Learning: A Case Study**  
ABUT F., YÜKSEL M. C., AKAY M. F., DANESHVAR S.  
International Journal of Scientific Research in Information Systems and Engineering, vol.4, no.1, pp.87-91, 2018 (Peer-Reviewed Journal)
- XVIII. **New Regression Equations for Estimating the Maximal Oxygen Uptake of College of Physical Education and Sports Students in Turkey**  
AKAY M. F., ABUT F., KAYA K., ÇETİN E., YARIM İ.  
New Trends and Issues Proceedings on Humanities and Social Sciences, vol.3, pp.11-17, 2017 (Peer-Reviewed Journal)
- XIX. **A Survey on Applications of Statistical and Machine Learning Methods in Sport Physiology**  
YÜKSEL M. C., ABUT F., AKAY M. F.  
Austin Sports Medicine, vol.2, no.3, pp.1022-1027, 2017 (Peer-Reviewed Journal)
- XX. **Support Vector Machines with Individual Combinations of Relief-F and mRMR for Predicting VO<sub>2</sub>max from Maximal and Questionnaire Data**  
ABUT F., AKAY M. F., GEORGE J.  
International Journal of Advances in Electronics and Computer Science, vol.3, no.10, pp.63-67, 2016 (Peer-Reviewed Journal)
- XXI. **New Regression Models for Predicting the Hamstring Muscle Strength Using Support Vector Machines**  
BOUBACAR S., AKAY M. F., ABUT F., ÇETİN E., YARIM İ., ALAK H.  
Çukurova University Journal of the Faculty of Engineering and Architecture, vol.31, no.2, pp.153-159, 2016 (Peer-Reviewed Journal)
- XXII. **Short Term Voice Traffic Forecast in 3G/UMTS Networks using Machine Learning and Statistical Methods**  
YASIN Y., AKAY M. F., ABUT F.  
International Journal of Advances in Electronics and Computer Science, vol.3, no.10, pp.108-111, 2016 (Peer-Reviewed Journal)
- XXIII. **Machine learning and statistical methods for the prediction of maximal oxygen uptake: recent advances**  
Abut F., AKAY M. F.  
MEDICAL DEVICES-EVIDENCE AND RESEARCH, vol.8, pp.369-379, 2015 (ESCI)
- XXIV. **Towards a Generic Classification and Evaluation Scheme for Bandwidth Measurement Tools**

ABUT F.

Signals and Telecommunication Journal, vol.1, no.2, pp.78-88, 2012 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Development of New Hybrid Models for Prediction of Maximal Oxygen Uptake Using Machine Learning Methods Combined with Feature Selection Algorithms**  
ABUT F.  
GRIN Verlag, Munich, 2021
- II. **Messen von Internet-Bandbreite. Metriken, Methoden und Tools**  
ABUT F.  
GRIN Verlag, Munich, 2010
- III. **Konzeption und Evaluierung einer verteilten Architektur zur passiven RTT-Messung**  
ABUT F.  
GRIN Verlag, Munich, 2008

## Refereed Congress / Symposium Publications in Proceedings

- I. **Development of a New Generation End-To-End Pump Cash Register System for Fuel Stations**  
Güneş T., Durmaz E., Temur H., Burtul G., Abut F., Akay M. F., Aygün M. Ş.  
The 8th International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaijan, 24 - 26 August 2022, pp.1-2
- II. **A New Cash Register for Fuel Stations with Resistant Outdoor Conditions: Design Considerations**  
Güneş T., Aşçı K., Temur H., Burtul G., Abut F., Akay M. F., Aygün M. Ş.  
5th International Symposium on Innovative Approaches in Smart Technologies, Ankara, Turkey, 28 - 29 May 2022, vol.5, no.1, pp.1-4
- III. **Predicting COVID-19 Infection Using Machine Learning Methods Combined with Feature Selection**  
Çetin U. A., Abut F.  
5th International Symposium on Innovative Approaches in Smart Technologies, Ankara, Turkey, 28 - 29 May 2022, pp.38
- IV. **Machine Learning Based Churn Analysis for Sellers on the E-Commerce Marketplace**  
Öztürk M. E., Say S., Akyüz A., Erdem S., Akay M. F., Abut F.  
5th International Conference on Life and Engineering Sciences , Antalya, Turkey, 19 - 22 May 2022, pp.127
- V. **Developing an End-to-End Integrated Secure Mobile Payment System**  
SARI A., DURMAZ E., HATUN E., GÜNEŞ T., NOMMAZ V., ABUT F., AKAY M. F., AYGÜN M. Ş.  
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), Ankara, Turkey, 15 December 2021, pp.795-802
- VI. **Information Extraction from Policy Documents Using Object Detection and Domain-Specific BERT**  
KUZ B., KÜLLÜ Ö., ÖZTÜRK B., ABUT F., AKAY M. F.  
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), Ankara, Turkey, 15 December 2021, pp.789-794
- VII. **Developing Customer Segmentation Models for Digital Marketing Campaigns using Machine Learning**  
BALKAYA A., TÜZÜNKAN E., AYAZ K., AKÇAY Y., ABUT F., AKAY M. F., ERDEM S.  
6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 October 2021, pp.697-701
- VIII. **Simplifying and Speeding Up the Finding of Real Estate Listings for End-Users**  
DURAN M. A., ŞAHİN A., ERBİLGİN D., TOSUN E., ABUT F., AKAY M. F.  
6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 October 2021, pp.657-660
- IX. **Forecasting the Average Call Handling Time in Call Centers Using Machine Learning Methods and Time Series Data**

AKAY M. F., ABUT F., ERDEM S., ÖNDER O., TURAN M., TARTUK M., NURDAĞ T. F.

6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 October 2021, pp.644-646

- X. **Development of Mobile Applications for Real Estate Businesses**  
TOHUMCU D. G., ALBAYRAK B., ADIGÜZEL Y., EMRAH P., ABUT F., AKAY M. F.  
6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 October 2021, pp.419-423
- XI. **Improving the Shipment Management Using Shipment Approval Cockpit in the Order Process**  
ÇİFTÇİ F. G., AYSOYSAL B., ABUT F., AKAY M. F.  
6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 October 2021, pp.652-655
- XII. **Forecasting the System Marginal Price Using Long Short-Term Memory and Support Vector Machine**  
AKAY M. F., ABUT F., BEDİR B., ERDOĞAN M., KANAR E.  
6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 October 2021, pp.628-633
- XIII. **Improving the Order Picking Process in Warehouse Systems Using Distance Matrix**  
BAYRAKTAR E., KARACA A. R., ABUT F., AKAY M. F.  
6th Intl. Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 October 2021, pp.96-101
- XIV. **Orchestra: A Warehouse Order Management System**  
GÖRÜR F., HAMARAT E., ABUT F., AKAY M. F.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.148-154
- XV. **Designing a Modern Gateway Device for Cloud Platforms**  
KUVVET S., KILIÇ M. F., KESKİN G., GÜNERİ H. İ., ABUT F., AKAY M. F.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.123-132
- XVI. **Orion: A Supplier Capacity Planning Model**  
GÖKAY O., AYYILDIZ Ö., ABUT F., AKAY M. F.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.140-147
- XVII. **DBTransporter: An Interoperable Application for Transferring Data Between Databases Running on Different Machines**  
BEQIROVSKI F., KÖMÜRCÜ M. F., ABUT F., AKAY M. F.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.164-171
- XVIII. **Loyalist365: A Loyalty Management Application**  
ALAN E., HUNUTLU F., CESUR E., KAYHAN Ö., ABUT F., AKAY M. F., ERDEM S.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.155-163
- XIX. **Akıllı Hat: A Call Measurement and Reporting Application**  
CABBAR T., DEMİR Y., ADIGÜZEL Y., EMRAH P., ABUT F., AKAY M. F., ERDEM S.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.172-179
- XX. **Replatforming and Online Renewal Project for Real Estate Businesses**  
GÜLEÇ S., SONAT S., ADIGÜZEL Y., EMRAH P., ABUT F., AKAY M. F., ERDEM S.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.133-139
- XXI. **Forecasting Arrivals to a Call Center Using Supervised Machine Learning**  
AKAY M. F., ABUT F., ERDEM S., TARTUK M., NURDAĞ T. F., YURDAGÜL H. H.  
International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI-2021), Yalova, Turkey, 21 - 23 May 2021, pp.170-173
- XXII. **Developing an Identification Application for Overdress Products Using Convolutional Neural Networks**  
Keskin M., Alp N., Cebeci S. E., Beker F., ABUT F., AKAY M. F.  
International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI-2021), Yalova, Turkey, 21 - 23 May 2021, pp.166-169
- XXIII. **Fashion-Oriented Personalized Search Engine Development**  
YALIN T. B., SANLAV K., TUNÇ A. A., ABUT F., AKAY M. F.  
International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Turkey, 01 May 2021
- XXIV. **Monetary Value Ordering Heuristic Approach for Cascade Hydropower Plants Dispatching with Downstream Requirements**

KAVAK A. F., KORKMAZ O., ÇİMEN E. B., ABUT F., AKAY M. F., ERDEM S.

5th International Mediterranean Science and Engineering Congress (IMSEC-2020), Antalya, Turkey, 21 - 23 October 2020, pp.320-328

- XXV. **Designing a New IoT Modem with Low Power Consumption and 4G LTE Support**  
KUVVET S., ABUT F., AKAY M. F., ERDEM S., KILIÇ M. F.  
5th International Mediterranean Science and Engineering Congress (IMSEC-2020), Antalya, Turkey, 21 - 23 October 2020, pp.165-169
- XXVI. **A Recent Survey of Studies on Wind Power Forecasting Using Statistical and Machine Learning Methods**  
DEMİRKAN O., ABUT F., AKAY M. F., ERDEM S., AKAR Ö.  
5th International Mediterranean Science and Engineering Congress (IMSEC-2020), Antalya, Turkey, 21 - 23 October 2020, pp.263-267
- XXVII. **C-Archive: Kurumsal İçerik Yönetimi için Yeni Bir Uygulama**  
UZUN O., TARTUK M., NURDAĞ F. T., ABUT F., AKAY M. F., ERDEM S.  
5th International Mediterranean Science and Engineering Congress (IMSEC-2020), Antalya, Turkey, 21 - 23 October 2020, pp.140-143
- XXVIII. **VIVID: A New Virtual Assistant for People with Visual Impairments**  
AYANA Ö., ABUT F.  
5th International Mediterranean Science and Engineering Congress (IMSEC-2020), Antalya, Turkey, 21 - 23 October 2020, pp.159-164
- XXIX. **Effects of Interrupt Coalescence on Estimation of Available Bandwidth Using Single-End Active Probing**  
ABUT F.  
Intl. Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA-19), Girne, Cyprus (Kktc), 6 - 08 March 2019, pp.33-34
- XXX. **Data-Driven Modelling and Prediction of CoAP Throughput in a Grid Network Topology**  
DEMİR A. K., ABUT F.  
Cilicia Intl. Symposium on Engineering and Technology (CISSET-18), Mersin, Turkey, 24 - 27 October 2018, pp.69-73
- XXXI. **On Active Estimation of End-to-End Capacity: A Comparison**  
ABUT F.  
Intl. Conference on Life and Engineering Sciences (ICOLES-18), Girne, Cyprus (Kktc), 2 - 04 September 2018, pp.37-42
- XXXII. **An Experimental Study for Estimating End-To-End Available Bandwidth in a Controlled Testbed Environment**  
ABUT F., DEMİR A. K.  
Intl. Conference on Computational Mathematics and Engineering Sciences (CMES-18), Girne, Cyprus (Kktc), 4 - 06 May 2018, pp.142
- XXXIII. **Comparison of CoAP and CoCoA Congestion Control Mechanisms in Grid Network Topologies**  
DEMİR A. K., ABUT F.  
Intl. Conference on Computational Mathematics and Engineering Sciences (CMES-18), Girne, Cyprus (Kktc), 4 - 06 May 2018, pp.141
- XXXIV. **Predicting students pass/fail status in an academic course using deep learning: A case study**  
ABUT F., YÜKSEL M. C., AKAY M. F., DANESHVAR S.  
Intl. Symposium on Engineering, Artificial Intelligence Applications (ISEAIA-17), Girne, Cyprus (Kktc), 1 - 03 November 2017, pp.189-194
- XXXV. **Artificial Neural Networks for Predicting the Racing Time of Cross-Country Skiers From Survey-Based Data**  
ABUT F., AKAY M. F., DANESHVAR S., HEIL D.  
IEEE 9th International Conference on Computational Intelligence and Communication Networks (CICN-17), Girne, Cyprus (Kktc), 16 - 17 September 2017, pp.117-121
- XXXVI. **New Regression Equations for Estimating the Maximal Oxygen Uptake of College of Physical**



**Education and Sports Students in Turkey**

AKAY M. F., Abut F., Kaya K., ÇETİN E., YARIM İ.

5th Cyprus International Conference on Educational Research (CYICER), Kyrenia, CYPRUS, 31 March - 02 April 2016, vol.3, pp.11-17

XXXVII. **Predicting the Maximum Endurance Time for Left-Side Bridge Exercise Using Machine Learning Methods and Hybrid Data**

AKAY M. F., Yuksel M. C., Abut F., Tas F. M., George J.

9th International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Cyprus (Kkct), 16 - 17 September 2017, pp.210-214

XXXVIII. **Artificial Neural Networks for Predicting the Racing Time of Cross-Country Skiers from Survey-Based Data**

Abut F., AKAY M. F., Daneshvar S., Heil D.

9th International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Cyprus (Kkct), 16 - 17 September 2017, pp.117-121

XXXIX. **Short Term Voice Traffic Forecast in 3G/UMTS Networks using Machine Learning and Statistical Methods**

YUR Y., AKAY M. F., ABUT F.

Intl. Conference on Artificial Intelligence and Soft Computing (ICAISC-16), Barcelona, Spain, 18 - 19 August 2016, pp.19-22

XL. **Support Vector Machines with Individual Combinations of Relief-F And mRMR for Predicting VO2max from Maximal and Questionnaire Data**

ABUT F., AKAY M. F., GEORGE J.

Intl. Conference on Artificial Intelligence and Soft Computing (ICAISC-16), Barcelona, Spain, 17 - 18 August 2016, pp.9-13

XLI. **New Regression Equations for Estimating the Maximal Oxygen Uptake of College of Physical Education and Sports Students in Turkey**

AKAY M. F., ÇETİN E., YARIM İ., ABUT F., KAYA K.

5th Cyprus International Conference on Educational Research, Girne, Cyprus (Kkct), 31 March - 02 April 2016, pp.164

XLII. **Predicting the Resonant Frequency and Q-Factor of Cylindrical Dielectric Resonators with Whispering Gallery Modes Using Tree-Structured Regression Methods**

ABUT F., AKAY M. F.

Intl. Conference on Natural Science and Engineering (ICNASE-16), Kilis, Turkey, 19 - 20 March 2016, pp.170-176

XLIII. **Data-driven Prediction of VO2max Based on Maximal and Submaximal Variables Using Support Vector Machines Combined with Feature Selection**

ABUT F., AKAY M. F., GEORGE J.

3rd International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA-15), Girne, Cyprus (Kkct), 4 - 06 November 2015, pp.10-11

XLIV. **Support Vector Machines for Prediction of Endurance Times Involving Isometric Side Bridge Exercise Test**

ABUT F., AKAY M. F., BOUBACAR S., GEORGE J.

Intl. Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA-15), Girne, Cyprus (Kkct), 4 - 06 November 2015, pp.7-9

XLV. **Performance Comparison of Different Machine Learning Methods for Prediction of Maximal Oxygen Uptake from Submaximal Data**

ABUT F., AKAY M. F., YILDIZ İ., GEORGE J.

8th Engineering and Technology Symposium (ETS-15), Ankara, Turkey, 14 - 15 May 2015, pp.367-370

XLVI. **Predicting the Processor and Channel Utilization of a 2-Dimensional Multiprocessor Architecture by Using Support Vector Regression Combined with Feature Selection**

AKAY M. F., ABUT F., ACI Ç., YILDIZ İ.

8th Engineering and Technology Symposium (ETS-15), Ankara, Turkey, 14 - 15 May 2015, pp.395-399

- XLVII. Feature Selection for Prediction of Upper Body Power of Cross-Country Skiers Using Different Machine Learning Methods**  
ÖZÇİLOĞLU M. M., ABUT F., AKAY M. F., HEIL D.  
Intl. Symposium on Sport Science, Engineering and Technology (ISSSET-15), İstanbul, Turkey, 10 - 13 May 2015, pp.82-89
- XLVIII. Investigating the Effects of Body Mass Index and Location Variables on the Prediction of Maximal Oxygen Uptake Using Support Vector Machines**  
ABUT F., GENÇ E., AKAY M. F., GEORGE J.  
Intl. Symposium on Sport Science, Engineering and Technology (ISSSET-15), İstanbul, Turkey, 10 - 13 May 2015, pp.54-61
- XLIX. Performance Evaluation of Different Classifiers to Predict the Admission Decision of a Candidate to the School of Physical Education and Sports at Cukurova University**  
ABUT F., AKAY M. F., TURHAN İ., ÖZSERT G.  
Intl. Symposium on Sport Science, Engineering and Technology (ISSSET-15), İstanbul, Turkey, 10 - 13 May 2015, pp.178-184
- L. Development of New Hybrid Models for Prediction of Maximal Oxygen Uptake Using Machine Learning Methods Combined with Feature Selection**  
ABUT F., AKAY M. F., GEORGE J.  
Intl. Symposium on Sport Science, Engineering and Technology (ISSSET-15), İstanbul, Turkey, 10 - 13 May 2015, pp.163-170
- LI. Development of New Upper Body Power Prediction Models for Cross-Country Skiers by Using Different Machine Learning Methods**  
Daneshvar S., Abut F., Yildiz I., AKAY M. F.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.260-263
- LII. Determination of the Variables Affecting the Maximal Oxygen Uptake of Cross-Country Skiers by Using Machine Learning and Feature Selection Algorithms**  
Abut F., AKAY M. F.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.156-159
- LIII. Investigating the Effects of Maximum Oxygen Uptake and Maximum Heart Rate Variables on the Prediction of Upper Body Power of Cross-Country Skiers Using Support Vector Machines**  
AKAY M. F., ABUT F., ŞANLI T. E., HEIL D.  
2nd Intl. Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kkct), 5 - 07 November 2014, pp.8-9
- LIV. Using support vector machines to predict maximal oxygen uptake with the help of questionnaire variables**  
AKAY M. F., ABUT F., GEORGE J.  
Intl. Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA-14), Girne, Cyprus (Kkct), 5 - 07 November 2014, pp.5-6
- LV. Using Cross-Layer Design to detect Jamming Attacks in the CoNSIS Scenario**  
Dennisen D., Abut F., Glaesel D., Bogenfeld J., Barz C., Aktas I., Wehrle K., Sevenich P.  
Military Communications and Information Systems Conference (MCC), Saint-Lo, France, 7 - 09 October 2013
- LVI. The CoNSIS Approaches to Network Management and Monitoring**  
BARZ C., DIEFENBACH A., ABUT F., WILMES M., SEVENICH P., SIMON P., BRET N.  
IEEE 14th Military Communications and Information Systems Conference (MCC-12), Gdansk, Poland, 8 - 09 October 2012, pp.161-178
- LVII. Towards a Generic Classification and Evaluation Scheme for Bandwidth Measurement Tools**  
ABUT F.  
IEEE International Conference on Computer-Related Knowledge, Sousse, Tunisia, 5 - 07 July 2012, pp.14

## Supported Projects

- ABUT F., Çetin U. A., Project Supported by Higher Education Institutions, Makine Öğrenmesi ve Nitelik Seçme Yöntemleriyle COVID-19 Tahmini, 2021 - 2022
- Abut F., Project Supported by Higher Education Institutions, Mesaj Paketleme Yapılarının Dinamik Seçimi ile Link 16 Ağlarının Simülatif Modellemesi, 2020 - 2021
- Abut F., Demir A. K., Project Supported by Higher Education Institutions, IP Tabanlı Yüksek Hızlı Ağlarda Geri Beslemeli Maksimum Veri Transfer Hızı Tahmini, 2018 - 2019
- Abut F., Yıldız I., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, "Küçük Mucitler, Büyük İcatlar" Sosyal Destek (SODES) Projesi, 2017 - 2019
- Akay M. F., Abut F., Çetin E., Yarım İ., Project Supported by Higher Education Institutions, Ülkemiz Sporcuları için Yapay Zeka ve İstatistiksel Yöntemler Kullanılarak Maksimum Oksijen Tüketimi (VO2max) Tahmin Modellerinin Geliştirilmesi, 2016 - 2019
- Pehlivanoglu G., Abut F., Yurtcan Y., Gökcan B., Project Supported by Defense Industry, KEMENT (Data Link Network Design and Implementation), 2016 - 2017
- Pehlivanoglu G., Abut F., Yurtcan Y., Project Supported by Defense Industry, GEZGİN (Intercontinental Missile), 2016 - 2017
- Akın B., Abut F., Yurtcan Y., Gökcan B., Project Supported by Defense Industry, SOM-J (Stand-Off Missile / Network Enabled Weapons), 2015 - 2017
- Sevenich P., Abut F., Barz C., NATO Supported Research Project, Protected Core Networking - Concepts and Challenges, 2013 - 2014
- Sevenich P., Abut F., Barz C., Rogge H., Dahlberg D., EU Supported Other Project, Community Networks Testbed for the Future Internet (CONFINE), 2012 - 2014
- Sevenich P., Abut F., Barz C., Dahlberg D., Diefenbach A., Wilmes M., Project Supported by Public Organizations in Other Countries, Coalition Networks for Secure Information Sharing (CoNSIS), 2011 - 2014

## Scientific Refereeing

- TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, CODELAB TEKNOLOJİ VE DANIŞMANLIK ANONİM ŞİRKETİ, Turkey, November 2020
- TUBITAK Project, 1501 - Industry R & D Projects Support Program, KOBİL BİLGİSAYAR ENERJİ VE ELEKTRİK SİSTEMLERİ SAN. TİC. LTD. ŞTİ., Turkey, November 2020
- TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, NEW SENSES UZAY TEKNOLOJİ VE SAĞLIK ARAŞTIRMALARI ANONİM ŞİRKETİ, Turkey, May 2020
- IEEE NETWORK, SCI Journal, May 2018
- INTERNATIONAL JOURNAL OF NETWORK MANAGEMENT, Journal Indexed in SCI-E, November 2016
- JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, Journal Indexed in SCI-E, July 2016
- TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, April 2016
- TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, March 2016
- TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, December 2015

## Metrics

- Publication: 97
- Citation (WoS): 64
- Citation (Scopus): 100
- H-Index (WoS): 6
- H-Index (Scopus): 7

## Congress and Symposium Activities

International Symposium on Engineering, Artificial Intelligence and Applications, Attendee, Girne, Cyprus (Kkct), 2019  
International Conference on Computational Mathematics and Engineering Sciences, Attendee, Girne, Cyprus (Kkct), 2018  
International Conference on Artificial Intelligence and Soft Computing, Attendee, Barcelona, Spain, 2018  
IEEE International Conference on Computational Intelligence and Communication Networks, Attendee, Girne, Cyprus (Kkct), 2017  
SOM-J Project Meeting (TÜBİTAK SAGE), Attendee, Kocaeli, Turkey, 2017  
International Data Link Symposium , Attendee, Maastricht, Netherlands, 2016  
International Conference on Natural Science and Engineering , Attendee, Kilis, Turkey, 2016  
International Symposium on Engineering, Artificial Intelligence and Applications, Attendee, Girne, Cyprus (Kkct), 2015  
IEEE Signal Processing and Communications Applications Conference, Attendee, Malatya, Turkey, 2015  
International Symposium on Sport Science, Engineering and Technology, Attendee, İstanbul, Turkey, 2015  
International Symposium on Engineering, Artificial Intelligence and Applications, Attendee, Girne, Cyprus (Kkct), 2014  
IEEE Military Communications and Information Systems Conference, Attendee, Bretagne, France, 2013  
IEEE Military Communications and Information Systems Conference, Attendee, Gdansk, Poland, 2012  
CoNSIS Project Meeting (Fraunhofer FKIE), Attendee, Munich, Germany, 2012  
CoNSIS Project Meeting (Fraunhofer FKIE), Attendee, Munich, Germany, 2012  
CoNSIS Project Meeting (Fraunhofer FKIE), Attendee, Aix-En-Provence, France, 2011

## Awards

Abut F., Ph.D. graduation in Computer Engineering with excellence (three years), Çukurova University, May 2017  
Abut F., M.Sc. graduation in Computer Science with excellence, Fachhochschule Bonn Rhein Sieg, September 2010  
Abut F., Bachelor graduation in Computer Science with honours, Fachhochschule Bonn Rhein Sieg, September 2008  
Abut F., Class Rank #1 (with another student) among the graduates, Georg-Simon-Ohm Technical College, August 2005

## Non Academic Experience

Company, Nano Bilgisayar ve İletişim Hiz. San. ve Tic. Ltd., Tümüleşik Bulut Santral Projesi  
Company, Hızlı Bilişim Teknolojileri AŞ, Web Tabanlı Yeni Nesil E-Dönüşüm Portalı  
Company, Kent Yazılım Bilişim ve İletişim Teknolojileri San. Tic. Ltd. Şti., Bulut Tabanlı, E-Devlet Servislerine Entegreli, Yeni Nesil Belediye Otomasyon Yazılımının Geliştirilmesi  
Other Public Institution, Yazılım Birimi  
State Agency, Department of Communication Systems