

## **Lect. PhD CEVAT ŞENER**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: ABA-3496-2020

ScopusID: 23486965100

Yoksis Researcher ID: 163446

### **Education Information**

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 1992 - 2000

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 1989 - 1992

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 1984 - 1989

### **Dissertations**

Doctorate, DaParT: A data-parallel programming tool, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2000

Postgraduate, A Study of optimization problems using neural nets on the transfer, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1992

### **Research Areas**

algorithms, Information System Reliability, Software Security, Computer Networks, Information Storage and Retrieval, Data Structures, Database Systems, Computer Learning, Operating Systems, Programming Languages, Software Engineering

### **Academic Titles / Tasks**

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2001 - Continues

Instructor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1997 - 2001

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1989 - 1997

## Academic and Administrative Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2011 - 2018

Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2001 - 2004

## Courses

DATA COMMUNICATIONS AND NETWORKING, Undergraduate, 2021 - 2022, 2020 - 2021

INTRODUCTION TO OBJECT-ORIENTED PROG. LANG. AND SYSTEMS, Undergraduate, 2020 - 2021, 2019 - 2020

## Advising Theses

Şener C., Toroslu İ. H., Developing multi-objective linear programming approaches for traffic signal optimization, Postgraduate, M.MURAT(Student), 2021

Toroslu İ. H., Şener C., Traffic volume prediction using LSTM improved with rules obtained from anomalies, Postgraduate, Y.BERK(Student), 2021

ŞENER C., A big data analytics architecture for multi tenant energy optimization systems, Postgraduate, O.CAN(Student), 2017

ŞENER C., Bigdata analytics architectures for HVAC energy optimization systems, Postgraduate, D.POYRAZ(Student), 2015

ŞENER C., Tuning of handover parameters in LTE-A heterogeneous networks, Postgraduate, E.TUNÇEL(Student), 2014

CAN T., ŞENER C., Modeling of split step parabolic wave equation using the graphics processing unit, Postgraduate, S.SEKMEK(Student), 2014

CAN T., ŞENER C., GPU accelerated radio wave propagation modeling using ray tracing, Postgraduate, A.ZUBAROĞLU(Student), 2014

ŞENER C., An approach to manage variability in object-oriented applications with feature models, Postgraduate, E.BULUT(Student), 2014

ŞENER C., AKKAYA A., A grid-based seismic hazard analysis application, Postgraduate, Ç.KOCAİR(Student), 2010

ŞENER C., Development of a grid-aware master worker framework for artificial evolution, Postgraduate, A.KETENCİ(Student), 2010

ŞENER C., Quality of service aware dynamic admission control in IEEE 802.16j non-transparent relay networks, Postgraduate, E.KILIÇ(Student), 2010

ŞENER C., Scheduling approaches for parameter sweep applications in a heterogeneous distributed environment, Postgraduate, G.KARADUMAN(Student), 2010

ŞENER C., Service discovery oriented clustering for mobile and adhoc networks, Postgraduate, G.BULUT(Student), 2010

ŞENER C., Improving throughput by traffic aware routing in non-transparent IEEE 802.16j networks, Postgraduate, R.TEKDOĞAN(Student), 2010

ŞENER C., Improvement and development of high-frequency wireless token-ring protocol, Postgraduate, T.KURTULUŞ(Student), 2010

TOROSLU İ. H., ŞENER C., Parallel CLOSET+ algorithm for finding frequent closed itemsets, Postgraduate, T.ŞEN(Student), 2009

ŞENER C., Identifying architectural concerns from non-functional requirements using support vector machine, Postgraduate, G.GÖKYER(Student), 2008

ŞENER C., Task parallelism for ray tracing on a GPU cluster, Postgraduate, Ç.ÜNLÜ(Student), 2008

ŞENER C., Data parallelism for ray casting large scenes on a CPU-GPU cluster, Postgraduate, T.TOPCU(Student), 2008

ŞENER C., Creating application security layer based on resource access decision service, Postgraduate, M.ÖZER(Student), 2007

ŞENER C., Resource-aware load balancing system with artificial neural networks, Postgraduate, A.YILDIZ(Student), 2006

ŞENER C., Improving performance of network intrusion detection systems through concurrent mechanisms, Postgraduate, M.ATAKAN(Student), 2003  
ŞENER C., Improving kernel performance for network sniffing, Postgraduate, M.ERSAN(Student), 2003

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

- I. **Traffic signal optimization using multiobjective linear programming for oversaturated traffic conditions**  
Coşkun M. M., ŞENER C., TOROSLU İ. H.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.32, no.1, pp.1-20, 2024 (SCI-Expanded)
- II. **Special issue on High-Performance Computing Conference (BASARIM 2022)**  
Kaya K., ŞENER C., Yenigün H.  
Concurrency and Computation: Practice and Experience, vol.35, no.24, 2023 (SCI-Expanded)
- III. **A scalable platform for big data analysis in public transport**  
Uçak E., Karagümüş E., ŞENER C.  
Concurrency and Computation: Practice and Experience, vol.34, no.9, 2022 (SCI-Expanded)
- IV. **Statistical Seismology Science Gateway**  
Kocair C., ŞENER C., AKKAYA A.  
SCIENCE GATEWAYS FOR DISTRIBUTED COMPUTING INFRASTRUCTURES: DEVELOPMENT FRAMEWORK AND EXPLOITATION BY SCIENTIFIC USER COMMUNITIES, pp.167-180, 2014 (SCI-Expanded)
- V. **Developing a data-parallel application with DaParT**  
Sener C., Paker Y., Kiper A.  
PARALLEL PROCESSING APPLIED MATHEMATICS, vol.2328, pp.280-287, 2002 (SCI-Expanded)

## Books & Book Chapters

- I. **Statistical Seismology Science Gateway**  
Çelebi K., AKKAYA A., ŞENER C.  
in: Science Gateways for Distributed Computing Infrastructures, , Editor, Springer International Publishing, pp.167-180, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **Cloud-based Scalable Public Transport Analysis**  
Uçak E., Karagümüş E., Şener C.  
BAŞARIM2020: 6. Ulusal Yüksek Başarımlı Hesaplama Konferansı, 8 - 09 October 2020, pp.1-4
- II. **Managing variability with feature models Özellik modeli ile değişkenlik yönetimi**  
Bulut E., ŞENER C.  
12th Turkish National Software Engineering Symposium, UYMS 2018, İstanbul, Turkey, 10 - 12 September 2018, vol.2201
- III. **METUWIND Gateway A Science Gateway for the METU Center for Wind Energy**  
KOCAİR Ç., ŞENER C., TUNCER İ. H.  
IWSG 2015 - 7th International Workshop on Science Gateways, Budapest, Hungary, 3 - 05 June 2015
- IV. **Büyük veri anlamlandırmada panoramik yaklaşım**  
Doğan I. T., Doğan Y. Ş., ŞENER C.  
8th Turkish National Software Engineering Symposium, UYMS 2014, Guzelyurt, Turkey, 8 - 10 September 2014, vol.1221, pp.484-491
- V. **DAP: Gelişmiş web tabanlı arama, raporlama ve çizelgeleme oluşturma amaçlı yazılım çerçevesi**

Doğan I. T., Doğan Y. Ş., ŞENER C.

7th Turkish National Software Engineering Symposium, UYMS 2013, İzmir, Turkey, 26 September 2013, vol.1072

- VI. **Parallel shape optimization of a missile on a grid infrastructure**  
Oktay E., Merttopcuoglu O., ŞENER C., Ketenci A., Akay H. U.  
20th International Series of Meetings on Parallel Computational Fluid Dynamics, CFD 2008, Lyon, France, 19 - 22 May 2008, vol.74 LNCSE, pp.51-59
- VII. **SEE-GRID eInfrastructure for Regional eScience**  
Prnjat O., Balaz A., Vudragovic D., Liabotis I., ŞENER C., Marovic B., Kozlovsky M., Neagu G.  
International Symposium on Grid Computing, Taipei, Taiwan, 9 - 12 March 2010, pp.91-103
- VIII. **Scalable Energy-Aware Dynamic Task Allocation**  
Bokar A., Bozyigit M., ŞENER C.  
23rd International Conference on Advanced Information Networking and Applications Workshops, Bradford, United Kingdom, 26 - 29 May 2009, pp.371-376
- IX. **Energy-Aware Dynamic Server Selection and Task Allocation**  
Bokar A., Bozyigit M., ŞENER C.  
23rd International Symposium on Computer and Information Sciences, İstanbul, Turkey, 27 - 29 October 2008, pp.207-212
- X. **Concurrency issues in rule-based Network Intrusion Detection Systems**  
GÜRKAN M. A., ŞENER C.  
1st International Conference on Security of Information and Networks, SIN 2007, Gazimagusa, Turkey, 7 - 10 May 2007, pp.146-150
- XI. **Non-functional requirements to architectural concerns: MML and NLP at crossroads**  
Gokyer G., Cetin S., ŞENER C., Yondem M. T.  
3rd International Conference on Software Engineering Advances, ICSEA 2008, Sliema, Malta, 26 - 31 October 2008, pp.400-406
- XII. **Creating application security layer based on resource access decision service**  
Metin M. Ö., ŞENER C., Göğebakan Y.  
1st International Conference on Security of Information and Networks, SIN 2007, Gazimagusa, Turkey, 7 - 10 May 2007, pp.248-257
- XIII. **An architectural modeling approach with symmetric alignment of multiple concern spaces**  
Cetin S., Altintas N. I., ŞENER C.  
2006 International Conference on Software Engineering Advances, ICSEA'06, Tahiti, French Polynesia, 29 October - 03 November 2006
- XIV. **Developing a data-parallel application with DaParT**  
ŞENER C., Paker Y., Kiper A.  
4th International Conference on Parallel Processing and Applied Mathematics, PPAM 2001, Naleczow, Poland, 9 - 12 September 2001, vol.2328, pp.280-287
- XV. **Data-parallel programming on Helios, Parallel environment and PVM**  
Sener C., Paker Y., Kiper A.  
ISCA 9th International Conference on Parallel and Distributed Computing Systems, Dijon, France, 25 - 27 September 1996, pp.189-192

## Supported Projects

Toffoli H., Yerli S. K., Şener C., Manguoğlu M., Sezer Uzol N., Koku H., Karagöz P., H2020 Project, EuroCC, 2020 - 2022  
Ortakaya B., Temizsoylu O., Toffoli H., Yerli S. K., Kaya K., Baran Ö. U., Karaca M., Karagöz P., Koku H., Manguoğlu M., et al., H2020 Project, EuroCC@Türkiye, 2020 - 2022

## **Metrics**

Publication: 21

Citation (WoS): 8

Citation (Scopus): 35

H-Index (WoS): 2

H-Index (Scopus): 3

## **Non Academic Experience**

TEPE