

Prof. ŞENAN ECE SCHMİDT

Personal Information

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Education Information

Doctorate, Carnegie Mellon University, Electrical And Computer Engineering, United States Of America 2001 - 2004

Post Graduate, Carnegie Mellon University, Electrical And Computer Engineering, United States Of America 1998 - 2001

Under Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1993 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Scheduling and Switching Architecture for Virtual Synchronous Frame (VSF), Carnegie Mellon University, Electrical And Computer Engineering, 2004

Post Graduate, A Novel Scalable Packet Switch Architecture with Quality of Service Support, Carnegie Mellon University, Electrical And Computer Engineering, 2001

Research Areas

Computer Networks, Equipment, Software

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2012 - 2017

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2008 - 2011

Lecturer, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2004 - 2008

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1997 - 2004

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - 2016

Advising Theses

- SCHMİDT Ş. E., SCHMİDT K. V., C3: Configurable CAN FD controller: Design, implementation and evaluation, Post Graduate, M.ERTUĞ(Student), 2018
- SCHMİDT Ş. E., SCHMİDT K. V., Controller area network with offset scheduling: Improved offset assignment algorithms and computation of response time distributions, Post Graduate, A.BATUR(Student), 2018
- SCHMİDT Ş. E., An end-to-end communication architecture for intelligent transportation systems: Design, implementation and latency analysis, Post Graduate, Ç.BAĞCI(Student), 2018
- SCHMİDT Ş. E., Efficient algorithms for the frame packing and slot allocation of FlexRay V3.0, Post Graduate, C.ÇAKMAK(Student), 2017
- SCHMİDT Ş. E., Efficient and fair adaptive streaming: Algorithm, implementation and evaluation, Post Graduate, A.ÖGE(Student), 2017
- SCHMİDT Ş. E., Tzar – time zone based approximation to ring:An autonomous protection switching algorithm for globally resilient optical transport networks, Post Graduate, F.DÜZGÜN(Student), 2016
- SCHMİDT Ş. E., A low latency, high throughput and scalable hardware architecture for flow tables in software defined networks, Post Graduate, G.ERAL(Student), 2016
- SCHMİDT Ş. E., A frame packing method to improve the schedulability on CAN and CAN-FD, Post Graduate, G.URUL(Student), 2015
- SCHMİDT Ş. E., Software implementations of QoS scheduling algorithms for high speed networks, Post Graduate, A.PEHLİVANLI(Student), 2015
- SCHMİDT Ş. E., Controller area network response time analysis and scheduling for advanced topics: Offsets, FIFO queues and gateways, Post Graduate, B.ALKAN(Student), 2015
- SCHMİDT Ş. E., UNIBUS: A universal hardware architecture for serial bus interfaces with real-time support, Post Graduate, M.DUMAN(Student), 2015
- SCHMİDT Ş. E., A generic and extendable system architecture for intelligent transportation systems, Post Graduate, K.ÇETİNKAYA(Student), 2015
- OĞUZTÜZÜN M. H. S., SCHMİDT Ş. E., RSAR: A layered software architecture for cyber-physical systems, Post Graduate, E.AKAGÜNDÜZ(Student), 2015
- SCHMİDT Ş. E., Message scheduling for the static and dynamic segment of flexray: Algorithms and applications, Post Graduate, Ö.KIZILAY(Student), 2015
- SCHMİDT Ş. E., DOĞRU A. H., Dynamic analysis for complex event processing, Post Graduate, M.OĞUZ(Student), 2015
- SCHMİDT Ş. E., Combined centralized and decentralized fault diagnosis for discrete event systems, Post Graduate, R.KARAV(Student), 2014
- SCHMİDT Ş. E., Dependability design for distributed real-time systems with broadcast communication, Doctorate, Y.BORA(Student), 2014
- SCHMİDT Ş. E., Implementation and performance analysis of switch fabric schedulers with a new accurate simulator software, Post Graduate, A.ADA(Student), 2014
- SCHMİDT Ş. E., Diagnostors for discrete event systems: Improved realization and examples, Post Graduate, B.ESER(Student), 2014
- SCHMİDT Ş. E., Fast, efficient and dynamically optimized data and hardware architectures for string matching, Doctorate, S.ZENGİN(Student), 2014
- SCHMİDT Ş. E., Switch fabric schedulers with intelligent multi-class support: Design, implementation and evaluation on FPGA, Post Graduate, M.AKPINAR(Student), 2014
- SCHMİDT Ş. E., HTTP adaptive streaming architectures for video on demand and live TV services, Post Graduate, Y.ÖZCAN(Student), 2013
- SCHMİDT Ş. E., Software tool development for the automated configuration of flexray networks for in-vehicle communication, Post Graduate, C.ÖZTÜRK(Student), 2013

SCHMİDT Ş. E. , Implementation and evaluation of the dependability plane for the dynamic distributed dependable real time industrial protocol (D3RIP), Post Graduate, Ö.BERAT(Student), 2013

SCHMİDT Ş. E. , An FPGA implementation of two-step trajectory planning for automatic parking, Post Graduate, H.ERTUĞRUL(Student), 2013

SCHMİDT Ş. E. , Implementation and evaluation of the dynamic distributed real time industrial protocol (D²RIP), Post Graduate, A.KAYA(Student), 2013

SCHMİDT Ş. E. , Simulation-based VoIP performance evaluation under different traffic and codec conditions, Post Graduate, B.ÜNLÜ(Student), 2013

SCHMİDT Ş. E. , The development and hardware implementation of a high-speed adaptable packet switch fabric, Post Graduate, E.EYÜP(Student), 2013

SCHMİDT Ş. E. , A new service architecture for IPTV over internet, Post Graduate, M.ÖZKARDEŞ(Student), 2013

SCHMİDT Ş. E. , Design and implementation of hardware architectures for high-speed IP address lookup, Doctorate, N.AYYILDIZ(Student), 2013

SCHMİDT Ş. E. , The development and hardware implementation of a dynamically reconfigurable and area optimized cyclic redundancy check architecture, Post Graduate, Ö.YURT(Student), 2013

SCHMİDT Ş. E. , Development of strategies for reducing the worst-case message response times on the controller area network, Post Graduate, V.ÇELİK(Student), 2012

SCHMİDT Ş. E. , LEBLEBİCİOĞLU M. K. , QoS and QoC bargaining for message scheduling in networked control systems, Doctorate, S.ŞENOL(Student), 2012

SCHMİDT Ş. E. , A software tool for vehicle calibration, diagnosis and test via controller area network, Post Graduate, U.CİVELEK(Student), 2012

SCHMİDT Ş. E. , Simulation and performance evaluation of a distributed real-time communication protocol for industrial embedded systems, Post Graduate, G.AYBAR(Student), 2011

SCHMİDT Ş. E. , A faster intrusion detection method for high-speed computer networks, Post Graduate, M.CEM(Student), 2011

SCHMİDT Ş. E. , Implementing and evaluating the coordination layer and time-synchronization of a new protocol for industrial communication networks, Post Graduate, U.TURAN(Student), 2011

SCHMİDT Ş. E. , Implementation and evaluation of a synchronous time-slotted medium access protocol for networked industrial embedded systems, Post Graduate, A.KORHAN(Student), 2011

SCHMİDT Ş. E. , Design and implementation of scheduling and switching architectures for high speed networks, Doctorate, M.SANLI(Student), 2011

SCHMİDT Ş. E. , Ethernet based real time communications for embedded systems, Post Graduate, O.YILMAZ(Student), 2010

SCHMİDT Ş. E. , Inter-connected flexray and can networks for in-vehicle communication: Gateway implementation and end-to-end performance study, Post Graduate, M.ALKAN(Student), 2010

SCHMİDT Ş. E. , Performance evaluation of flexray networks for in-vehicle communication, Post Graduate, A.DEMİRCİ(Student), 2009

SCHMİDT Ş. E. , A new feedback-based contention avoidance algorithm for optical burst switching networks, Post Graduate, H.ALPER(Student), 2008

SCHMİDT Ş. E. , Time-triggered controller area network (TTCAN) communication scheduling: A systematic approach, Post Graduate, U.KESKİN(Student), 2008

SCHMİDT Ş. E. , Connectionless traffic and variable packet size support in high-speed network switches: Improvements for the delay-limiter switch, Post Graduate, A.AKÇASOY(Student), 2008

SCHMİDT Ş. E. , Testing distributed real-time systems with a distributed test approach, Post Graduate, G.ÖZTAŞ(Student), 2008

SCHMİDT Ş. E. , A new approach for the scalable intrusion detection in high-speed networks, Post Graduate, Ü.BURAK(Student), 2007

SCHMİDT Ş. E. , An evaluation of aspect-oriented programming for embedded real-time systems, Post Graduate, Y.BORA(Student), 2007

SCHMİDT Ş. E. , Routing algorithms for on chip networks, Post Graduate, M.ATAGOZİYEV(Student), 2007

SCHMİDT Ş. E. , Scheduling algorithms for wireless CDMA networks, Post Graduate, S.ENDER(Student), 2007

SCHMİDT Ş. E. , A novel method for the detection of p2p traffic in the network backbone inspired by intrusion detection systems, Post Graduate, M.SOYSAL(Student), 2006

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, October, 2019

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, October, 2019

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, March, 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **A Fast and Accurate Hardware String Matching Module with Bloom Filters**
Zengin S., SCHMİDT Ş. E.
IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, vol.28, pp.305-317, 2017 (Journal Indexed in SCI)
- **Modeling Distributed Real-Time Systems in TIOA and UPPAAL**
Kartal Y. B. , SCHMİDT Ş. E. , SCHMİDT K. W.
ACM TRANSACTIONS ON EMBEDDED COMPUTING SYSTEMS, vol.16, 2016 (Journal Indexed in SCI)
- **Controller area network with priority queues and FIFO queues: improved schedulability analysis and message set extension**
SCHMİDT K. W. , Alkan B., SCHMİDT Ş. E. , Karani D. C. , Karakaya U.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.71, pp.335-357, 2016 (Journal Indexed in SCI)
- **S-DIRECT: Scalable and Dynamically Reconfigurable TCAM Architecture for High-Speed IP Lookup**
Ayyildiz N., Schmidt E. G. , Guran H. C.
COMPUTER JOURNAL, vol.58, pp.1443-1455, 2015 (Journal Indexed in SCI)
- **Distributed Real-Time Protocols for Industrial Control Systems: Framework and Examples**
SCHMİDT K. W. , SCHMİDT Ş. E.
IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, vol.23, pp.1856-1866, 2012 (Journal Indexed in SCI)
- **Hardware design and implementation of packet fair queuing algorithms for the quality of service support in the high-speed internet**
Sanli M., Schmidt E. G. , Guran H. C.
COMPUTER NETWORKS, vol.56, pp.3065-3075, 2012 (Journal Indexed in SCI)
- **FPGEN: A fast, scalable and programmable traffic generator for the performance evaluation of high-speed computer networks**
Sanli M., SCHMİDT Ş. E. , Guran H. C.
PERFORMANCE EVALUATION, vol.68, pp.1276-1290, 2011 (Journal Indexed in SCI)
- **INtERCEDE: An algorithmic approach to networked control system design**
Senol S., Leblebicioglu K., Schmidt E. G.
JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, vol.34, pp.1326-1341, 2011 (Journal Indexed in SCI)
- **Machine learning algorithms for accurate flow-based network traffic classification: Evaluation and comparison**
Soysal M., SCHMİDT Ş. E.
PERFORMANCE EVALUATION, vol.67, pp.451-467, 2010 (Journal Indexed in SCI)
- **Message Scheduling for the FlexRay Protocol: The Static Segment**
Schmidt K., SCHMİDT Ş. E.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.58, pp.2170-2179, 2009 (Journal Indexed in SCI)
- **Message Scheduling for the FlexRay Protocol: The Dynamic Segment**
SCHMİDT Ş. E. , Schmidt K.

- IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.58, pp.2160-2169, 2009 (Journal Indexed in SCI)
Systematic message schedule construction for time-triggered CAN
Schmidt K., Schmidt E. G.
- IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.56, pp.3431-3441, 2007 (Journal Indexed in SCI)
A new scalable service discipline for real-time traffic: The framed-deadline scheduler
Schmidt S. E. (, Kim H. S.
- COMPUTER COMMUNICATIONS, vol.30, pp.1258-1277, 2007 (Journal Indexed in SCI)
Frame-counter scheduler: A novel QoS scheduler for real-time traffic
Schmidt S. E. (, Kim H. S.
- COMPUTER COMMUNICATIONS, vol.29, pp.2181-2200, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

- **An experimental study of the FlexRay dynamic segment**
Schmidt K. V. , Schmidt E. G. , Demirci A., Yürüklü E., Karakaya U.
IFAC Proceedings Volumes (IFAC-PapersOnline), vol.43, pp.413-418, 2010 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **CLOUDGEN: Workload generation for the evaluation of cloud computing systems CLOUDGEN: Bulut Bilişim Sistemlerinin Başarım Değerlendirmesi için İş Yuku Üretimi**
Koltuk F., Yazar A., Schmidt E. G.
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- **CLOUDGEN: Workload generation for the evaluation of cloud computing systems CLOUDGEN: Bulut Bilişim Sistemlerinin Başarım Değerlendirmesi için İş Yuku Üretimi**
Koltuk F., Yazar A., Schmidt E. G.
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- **ACCLOUD-MAN - Power efficient resource allocation for heterogeneous clouds ACCLOUD-MAN - Heterojen bulutlarda güç etkin kaynak ataması**
Ekici N. U. , Schmidt K. W. , Yazar A., Schmidt E. G.
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- **A generalization of openstack for managing heterogeneous cloud resources Heterojen bulut kaynaklarının yönetimi için openstack genelleştirimi**
Erol A., Yazar A., Schmidt E. G.
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- **Resource Allocation for Minimized Power Consumption in Hardware Accelerated Clouds**
Ekici N. U. , SCHMİDT K. V. , Yazar A., Schmidt E. G.
28th International Conference on Computer Communications and Networks (ICCCN), Valencia, Spain, 29 July - 01 August 2019
- **ACCLOUD-MAN - Power Efficient Resource Allocation for Heterogeneous Clouds**
Ekici N. U. , SCHMİDT K. V. , Yazar A., Schmidt E. G.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- **Improved clock synchronization algorithms for the Controller Area Network (CAN)**
Akpınar M., SCHMİDT K. V. , Schmidt E. G.
28th International Conference on Computer Communications and Networks (ICCCN), Valencia, Spain, 29 July - 01 August 2019
- **OpenStack Generalization for Hardware Accelerated Clouds**
Erol A., Yazar A., Schmidt E. G.

- 28th International Conference on Computer Communications and Networks (ICCCN), Valencia, Spain, 29 July - 01 August 2019
- **Efficient Adaptive Streaming (EFAST): Algorithm, implementation and evaluation-Verimli Uyarlanabilir Akış (EFAST): Algoritma, Gerçekleştirim, Değerlendirme**
Öge A., SCHMİDT Ş. E.
 - 2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2 - 05 May 2018
Computation of Response Time Distributions for Messages on the Controller Area Network
Batur A., SCHMİDT Ş. E., SCHMİDT K. V.
 - 2018 IEEE 13th International Symposium on Industrial Embedded Systems (SIES), Graz, Austria, 6 - 08 June 2018
Evaluation of response time distributions for controller area network messages
Batur A., SCHMİDT Ş. E., SCHMİDT K. V.
 - 2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2 - 05 May 2018
FASST: A high performance scalable rule table hardware architecture for software defined networks-FASST: Yazılım Tanımlı Bilgisayar Ağları için Yüksek Başarımlı, Ölçeklenebilir bir Kural Tablosu Donanım Mimarisi
ERAL G., SCHMİDT Ş. E.
 - 2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2 - 05 May 2018
ACCLOUD (Accelerated CLOUD): A novel FPGA-Accelerated cloud architecture-ACCLOUD: FPGA ile Hızlandırılmış Yeni bir Bulut Mimarisi
YAZAR A., EROL A., SCHMİDT Ş. E.
 - 2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2 - 05 May 2018
Offset assignment on controller area network: Improved algorithms and computational evaluation
Batur A., Schmidt K. V., Schmidt E. G.
 - 12th IEEE International Symposium on Industrial Embedded Systems, SIES 2017, Toulouse, France, 14 - 16 June 2017
C3: Configurable CAN FD controller: Architecture, design and hardware implementation
Afşin M. E., Schmidt K. V., Schmidt E. G.
 - 12th IEEE International Symposium on Industrial Embedded Systems, SIES 2017, Toulouse, France, 14 - 16 June 2017
A Configurable CAN FD controller: Architecture and implementation
Afşin M. E., SCHMİDT K. V., SCHMİDT Ş. E.
 - 2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
A communication architecture for Intelligent Transportation Applications
Bağcı Ç., SCHMİDT Ş. E.
 - 2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
A fast and optimal static segment scheduling method for FlexRay v3.0
ÇAKMAK C., SCHMİDT Ş. E., SCHMİDT K. V.
 - 2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
Improved load distribution for controller area network
Batur A., SCHMİDT Ş. E., SCHMİDT K. V.
 - 2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
Offset Assignment on Controller Area Network: Improved Algorithms and Computational Evaluation
Batur A., SCHMİDT K. W., SCHMİDT Ş. E.
 - 12th IEEE International Symposium on Industrial Embedded Systems (SIES), Toulouse, France, 14 - 16 June 2017, pp.82-90
Lane Change Scheduling for Autonomous Vehicles
Atagoziyev M., SCHMİDT K. W., SCHMİDT Ş. E.

14th IFAC Symposium on Control in Transportation Systems (CTS), İstanbul, Turkey, 18 - 20 May 2016, vol.49, pp.61-66

● **Window Based Fair Aggregator for the Scalable Support of QoS Guarantees in the Backbone: An Experimental Performance Study**

Sanli M., Pehlivanli A., SCHMİDT Ş. E.

International Conference on Computing, Networking and Communications (ICNC), Hawaii, United States Of America, 15 - 18 February 2016

● **A Flow Aggregation Method for the Scalable and Efficient Quality of Service Support in Next Generation Networks**

Sanli M., SCHMİDT Ş. E., Guran H. C.

IEEE Global Communications Conference (GLOBECOM), Georgia, United States Of America, 9 - 13 December 2013, pp.2243-2248

● **CALMTV: A Cluster Based Application Layer Multicast Architecture for IPTV**

Ozkardes M., SCHMİDT Ş. E.

IEEE Global Communications Conference (GLOBECOM), Georgia, United States Of America, 9 - 13 December 2013, pp.1693-1698

● **Optimal Message Scheduling for the Static Segment of FlexRay**

SCHMİDT K. V. , SCHMİDT Ş. E.

2010 IEEE 72nd Vehicular Technology Conference - Fall, Ottawa, ON, Canada, 6 - 09 September 2010

● **Optimal Message Scheduling for the Static Segment of FlexRay**

SCHMİDT K. W. , SCHMİDT Ş. E.

IEEE 72nd Vehicular Technology Conference Fall 2010, Ottawa, Canada, 6 - 09 September 2010

● **Schedulability Analysis and Message Schedule Computation for the Dynamic Segment of FlexRay**

SCHMİDT K. W. , SCHMİDT Ş. E.

IEEE 72nd Vehicular Technology Conference Fall 2010, Ottawa, Canada, 6 - 09 September 2010

● **A longest path problem for evaluating the worst case packet delay of switched ethernet**

SCHMİDT K. V. , SCHMİDT Ş. E.

International Symposium on Industrial Embedded System (SIES), Trento, Italy, 7 - 09 July 2010

● **Performance evaluation of FlexRay CAN networks interconnected by a gateway**

SCHMİDT Ş. E. , Alkan M., SCHMİDT K. V. , YÜRÜKLÜ E., Karakaya U.

International Symposium on Industrial Embedded System (SIES), Trento, Italy, 7 - 09 July 2010

● **Communication of distributed discrete-event supervisors on a switched network**

Schmidt K., Schmidt E. G.

9th International Workshop on Discrete Event Systems, Goteborg, Sweden, 28 - 30 May 2008, pp.419-420

● **An accurate evaluation of machine learning algorithms for flow-based P2P traffic detection**

Soysal M., Schmidt E. G.

22nd International Symposium on Computer and Information Sciences, ISCIS 2007, Ankara, Turkey, 7 - 09 November 2007, pp.393-398

● **An evaluation of aspect oriented programming for embedded real-time systems**

Kartal Y. B. , Schmidt E. G.

22nd International Symposium on Computer and Information Sciences, ISCIS 2007, Ankara, Turkey, 7 - 09 November 2007, pp.370-375

● **A shared-medium communication architecture for distributed discrete event systems**

Schmidt K. V. , Schmidt E., Zaddach J.

2007 Mediterranean Conference on Control and Automation, MED, Athens, Greece, 27 - 29 July 2007

● **An intrusion detection based approach for the scalable detection of P2P traffic in the national academic network backbone**

SCHMİDT Ş. E. , Soysal M.

7th International Symposium on Computer Networks, İstanbul, Turkey, 16 - 18 June 2006, pp.128-129

Supported Projects

Schmidt Ş. E. , TUBITAK Project, Accloud (Accelerated Cloud): Fpga İle Hizlandırılmış Yeni Bir Bulut Mimarisi, 2018 - 2021

Schmidt Ş. E. , Schmidt K. V. , Project Supported by Other Private Institutions, Araç Arka Lambalarının Gömülü Yazılımının TestEdilmesi için Yazılım ve Donanım Geliştirilmesi Ar-Ge Projesi, 2019 - 2019

SCHMİDT Ş. E. , GÜNEY A., BALO E., Project Supported by Higher Education Institutions, METU-STARS: YÜKSEK BAŞARIMLI YENİ BİR SİSTEMATİK YAZILIM TANIMLI AĞ (SOFTWARE DEFINED NETWORKS-SDN) YÖNETİMİ, 2018 - 2019

Kurtuluş D. F. , Tekinalp O., Kayran A., Yaman Y., Gürses E., Çöker D., Yavrucuk İ., Leblebicioğlu M. K. , Konukseven E. İ. , Aksel M. H. , et al., Company, ODTÜ-TAİ VLA projesi 1. faz, 2017 - 2019

SCHMİDT Ş. E. , Öge A., Project Supported by Higher Education Institutions, METU-HAS: YÜKSEK BAŞARIMLI YENİ BİR SİSTEMATİK HTTP ADAPTIVE STREAMING (HAS) YÖNTEMİ, 2017 - 2017

SCHMİDT Ş. E. , Schmidt K. V. , Afşin M. E. , Project Supported by Higher Education Institutions, ARAÇ İÇİ HABERLEŞME İÇİN CAN-FD KONTROLCUSU (METU-CAN): FPGA GELİŞTİRİMİ, GERÇEKLEŞTİRİMİ VE TESTLERİ, 2017 - 2017

Schmidt Ş. E. , Project Supported by Other Private Institutions, Yeni Nesil Traktörler için Araç-İçi ve Araç-X (V2X) Haberleşme Mimarisi Geliştirilmesi Ar-Ge Projesi, 2016 - 2017

SCHMİDT Ş. E. , Project Supported by Other Private Institutions, Yeni Nesil Traktörlerde Uygulanabilecek Gövde Kontrol Sistemi Modülü Geliştirilmesi AR GE projesi, 2016 - 2016

SCHMİDT Ş. E. , Project Supported by Higher Education Institutions, AKILLI ULAŞIM SİSTEMLERİ (AUS) İÇİN GERÇEK ZAMANLI HABERLEŞME: DENEYSEL ÖLÇÜMLER VE MİMARİ ÖNERİSİ, 2016 - 2016

SCHMİDT Ş. E. , Project Supported by Other Private Institutions, Araç İçi CAN Bus Ağları ve Uzak Sunucu ile Haberleşme Sağlayan Infotainment ve Diyagnozi İşlevleri Olan Araç Ünitesi için Gömülü Yazılım Geliştirme Ar Ge Projesi, 2014 - 2015

SCHMİDT Ş. E. , Project Supported by Other Private Institutions, FlexRay Ve CAN Bus Ağları için Algoritmik Çizelgelendirme Yazılımı Geliştirme ve Kullanıcılar için Arayüz GUI Geliştirme Ar Ge Projesi, 2013 - 2015

Schmidt Ş. E. , TUBITAK Project, Ethernet Üzerinde Dinamik Dağıtılmış ve Güvenilir Endüstriyel Haberleşme Protokolları Genel Tasarım İşçerçevesi Gerçekleştirim ve Deneysel Çalışma, 2010 - 2013

SCHMİDT Ş. E. , Project Supported by Higher Education Institutions, Endüstriyel Ağ Uygulamaları İçin Paylaşımlı Ortamda Haberleşme Protokolü Geliştirilmesi, 2009 - 2009

Activities in Scientific Journals

Turkish Journal Of Electrical Engineering And Computer Sciences, Editor, 2017 - Continues

Scientific Refereeing

IEEE TRANSACTIONS ON CLOUD COMPUTING, SCI Journal, October 2019

Citations

Total Citations (WOS):247

h-index (WOS):7