

## Prof.Dr. KLAUS VERNER SCHMİDT

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Engineering, Almanya 2002 - 2005

Lisans, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Electrical, Electronics And Communication Engineering, Almanya 1997 - 2002

Yüksek Lisans, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Electrical, Electronics And Communication Engineering, Almanya 1997 - 2002

### Yaptığı Tezler

Doktora, Hierarchical Control of Decentralized Discrete Event Systems-Theory and Application, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Engineering, 2018

Yüksek Lisans, Entwurf von Zustandsrückführungen für lineare diskrete Systeme über  $GF(2)$  mit Hilfe der Polynommatrixmethode, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Electrical, Electronics And Communication Engineering, 2018

### Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Elektronik, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, 2019 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - Devam Ediyor

### Verdiği Dersler

Introduction to Logic Design, Lisans, 2019 - 2020

### Yönetilen Tezler

Schmidt K. V. , SENSOR FUSION OF A CAMERA AND 2D LIDAR FOR LANE DETECTION AND TRACKING, Yüksek Lisans, Y.YENİAYDIN(Öğrenci), 2019

SCHMİDT K. V. , LANE KEEPING CONTROL FOR SELF-DRIVING VEHICLES, Yüksek Lisans, K.SARAÇOĞLU(Öğrenci), 2018  
SCHMİDT Ş. E. , SCHMİDT K. V. , C3: Configurable CAN FD controller: Design, implementation and evaluation, Yüksek Lisans, M.ERTUĞ(Öğrenci), 2018  
SCHMİDT Ş. E. , SCHMİDT K. V. , Controller area network with offset scheduling: Improved offset assignment algorithms and computation of response time distributions, Yüksek Lisans, A.BATUR(Öğrenci), 2018  
Schmidt K. V. , Optimal control problems for safe and efficient lane changes of self-driving vehicles, Doktora, A.HASEEB(Öğrenci), 2017  
Schmidt K. V. , Fault-tolerant supervisory control of discrete event systems: Methods and examples, Yüksek Lisans, A.NUR(Öğrenci), 2015  
Schmidt K. V. , Development of laboratory experiments for control and power systems: The water -tank experiment, Yüksek Lisans, A.M.(Öğrenci), 2012  
Schmidt K. V. , Modeling control and simulation of a drinking water treatment plant, Yüksek Lisans, F.GHAZY(Öğrenci), 2012  
Schmidt K. V. , Supervisory control for reconfigurable manufacturing systems: Structural changes and re-usability of controllers, Yüksek Lisans, A.NOORULDEEN(Öğrenci), 2012  
Schmidt K. V. , Development of a DC-motor control laboratory experiment, Yüksek Lisans, A.HASEEB(Öğrenci), 2012

### **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- **Order-Preserving Languages for the Supervisory Control of Automated Manufacturing Systems**  
Nooruldeen A., SCHMİDT K. V.  
IEEE ACCESS, cilt.8, ss.131901-131919, 2020 (SCI İndekslerine Giren Dergi)
- **Voronoi Boundary Visibility for Efficient Path Planning**  
Al-Dahhan M. R. H. , SCHMİDT K. V.  
IEEE ACCESS, cilt.8, ss.134764-134781, 2020 (SCI İndekslerine Giren Dergi)
- **Formulation and solution of an optimal control problem for industrial project control**  
Schmidt K. V. , Hazır Ö.  
Annals of Operations Research, cilt.280, ss.337-350, 2019 (SCI İndekslerine Giren Dergi)
- **A Data Envelopment Analysis Method for Finding Robust and Cost-Efficient Schedules in Multimode Projects**  
SCHMİDT K. V. , HAZIR Ö.  
IEEE Transactions On Engineering Management, 2019 (SCI İndekslerine Giren Dergi)
- **Feedforward Strategies for Cooperative Adaptive Cruise Control in Heterogeneous Vehicle Strings**  
Al-Jhayyish A. M. H. , SCHMİDT K. V.  
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, cilt.19, ss.113-122, 2018 (SCI İndekslerine Giren Dergi)
- **Outputs bounds for linear systems with repeated input signals: existence, computation and application to vehicle platooning**  
Saglam H. B. , Schmidt K. W.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.26, ss.283-295, 2018 (SCI İndekslerine Giren Dergi)
- **Reconfigurability of behavioural specifications for manufacturing systems**  
SCHMİDT K. V.  
INTERNATIONAL JOURNAL OF CONTROL, cilt.90, ss.2605-2617, 2017 (SCI İndekslerine Giren Dergi)
- **Modeling Distributed Real-Time Systems in TIOA and UPPAAL**  
Kartal Y. B. , SCHMİDT Ş. E. , SCHMİDT K. W.  
ACM TRANSACTIONS ON EMBEDDED COMPUTING SYSTEMS, cilt.16, 2016 (SCI İndekslerine Giren Dergi)
- **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, cilt.71, ss.335-357, 2016 (SCI İndekslerine Giren Dergi)  
**State attraction under language specification for the reconfiguration of discrete event systems**  
Nooruldeen A., Schmidt K. V.
- IEEE Transactions on Automatic Control, cilt.60, ss.1630-1634, 2015 (SCI İndekslerine Giren Dergi)  
**Computation of supervisors for reconfigurable machine tools**  
Schmidt K. V.
- Discrete Event Dynamic Systems: Theory and Applications, cilt.25, ss.125-158, 2015 (SCI İndekslerine Giren Dergi)  
**Optimal supervisory control of discrete event systems: Cyclicity and interleaving of tasks**  
Schmidt K. V.
- SIAM Journal on Control and Optimization, cilt.53, ss.1425-1439, 2015 (SCI İndekslerine Giren Dergi)  
**A framework for state attraction of discrete event systems under partial observation**  
Schmidt K. V. , Breindl C.
- Information Sciences, cilt.281, ss.265-280, 2014 (SCI İndekslerine Giren Dergi)  
**Robust Priority Assignments for Extending Existing Controller Area Network Applications**  
SCHMİDT K. V.
- IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, cilt.10, ss.578-585, 2014 (SCI İndekslerine Giren Dergi)  
**Verification of Modular Diagnosability With Local Specifications for Discrete-Event Systems**  
SCHMİDT K. V.
- IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS, cilt.43, ss.1130-1140, 2013 (SCI İndekslerine Giren Dergi)  
**An integrated scheduling and control model for multi-mode projects**  
Hazır Ö., Schmidt K. V.
- Flexible Services and Manufacturing Journal, cilt.25, ss.230-254, 2013 (SCI İndekslerine Giren Dergi)  
**Efficient Abstractions for the Supervisory Control of Modular Discrete Event Systems**  
SCHMİDT K. V. , Ribeiro Cury J. E.
- IEEE TRANSACTIONS ON AUTOMATIC CONTROL, cilt.57, ss.3224-3229, 2012 (SCI İndekslerine Giren Dergi)  
**Fuzzy Discrete Event Systems for Multiobjective Control: Framework and Application to Mobile Robot Navigation**  
SCHMİDT K. V. , Boutalis Y.
- IEEE TRANSACTIONS ON FUZZY SYSTEMS, cilt.20, ss.910-922, 2012 (SCI İndekslerine Giren Dergi)  
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SCHMİDT K. W. , Breindl C.
- IEEE TRANSACTIONS ON AUTOMATIC CONTROL, cilt.56, ss.723-737, 2011 (SCI İndekslerine Giren Dergi)  
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SCHMİDT Ş. E. , Schmidt K.
- IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.58, ss.2160-2169, 2009 (SCI İndekslerine Giren Dergi)  
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- IEEE TRANSACTIONS ON AUTOMATIC CONTROL, cilt.53, ss.2252-2265, 2008 (SCI İndekslerine Giren Dergi)  
**Systematic message schedule construction for time-triggered CAN**  
Schmidt K., Schmidt E. G.
- IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.56, ss.3431-3441, 2007 (SCI İndekslerine Giren Dergi)  
**A finite field framework for modeling, analysis and control of finite state automata**  
Reger J., Schmidt K. V.
- Mathematical and Computer Modelling of Dynamical Systems, cilt.10, ss.253-285, 2004 (SCI İndekslerine Giren Dergi)  
**Modeling and analyzing finite state automata in the finite field  $F_2$**   
Reger J., Schmidt K. V.

## Diğer Dergilerde Yayınlanan Makaleler

- **Cooperative Adaptive Cruise Control for Vehicle Following During Lane Changes**  
Schmidt K. V.  
IFAC-PapersOnLine, cilt.50, ss.12582-12587, 2017 (Diğer Kurumların Hakemli Dergileri)
- **The Controllability Prefix for Supervisory Control under Partial Observation with an Application to Fault-Tolerant Control**  
Moor T., Schmidt K. V.  
IFAC-PapersOnLine, cilt.50, ss.13642-13647, 2017 (Diğer Kurumların Hakemli Dergileri)
- **Abstraction-based control for not necessarily closed behaviours**  
Moor T., Schmidt K. V., Wittmann T.  
IFAC Proceedings Volumes (IFAC-PapersOnline), cilt.44, ss.6988-6993, 2011 (Diğer Kurumların Hakemli Dergileri)
- **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), cilt.43, ss.413-418, 2010 (Diğer Kurumların Hakemli Dergileri)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Sensor Fusion of a Camera and 2D LIDAR for Lane Detection**  
Yeniaydın Y., Schmidt K. V.  
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Sivas, Türkiye, 24 - 26 Nisan 2019, ss.1-4
- **ACLOUD-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, Türkiye, 24 - 26 Nisan 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, İspanya, 29 Temmuz - 01 Ağustos 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, İspanya, 29 Temmuz - 01 Ağustos 2019
- **Robust Lane Recognition Based on Arc Splines**  
SCHMİDT K. V., Yeniaydın Y.  
Digital Transformation Smart Systems, 24 - 26 Ekim 2018
- **Robust Lane Recognition Based on Arc Splines**  
Yeniaydın Y., SCHMİDT K. V.  
International Conference & Exhibition on Digital Transformation & Smart Systems, Ankara, Türkiye, 24 - 26 Ekim 2018, cilt.1, ss.1-4
- **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 Haziran 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), İzmir, Türkiye, 2 - 05 Mayıs 2018
- **A lane keeping system with a weighted preview measurement**

Saraçoğlu K., Üleş B., SCHMİDT K. V.

2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018

**A lane detection algorithm based on reliable lane markings**

Yeniaydın Y., Schmidt K. V.

26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Türkiye, 2 - 05 Mayıs 2018, ss.1-4

**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, Fransa, 14 - 16 Haziran 2017

**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, Fransa, 14 - 16 Haziran 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 Mayıs 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 Mayıs 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 Mayıs 2017

**A New Multi-Agent Decision Making Structure and Application to Model-Based Fault Diagnosis Problem**

LEBLEBİCİOĞLU M. K. , Zengin Y., Schmidt K. V.

25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017

**Lane Change Scheduling for Autonomous Vehicles**

Atagoziyev M., SCHMİDT K. W. , SCHMİDT Ş. E.

14th IFAC Symposium on Control in Transportation Systems (CTS), İstanbul, Türkiye, 18 - 20 Mayıs 2016, cilt.49, ss.61-66

**Discrete event supervisor design and application for manufacturing systems with arbitrary faults and repairs**

Acar A. N. , Schmidt K. V.

11th IEEE International Conference on Automation Science and Engineering, CASE 2015, Gothenburg, İsveç, 24 - 28 Ağustos 2015, ss.825-830

**Fault-tolerant control of discrete-event systems with lower-bound specifications**

Moor T., Schmidt K. V.

5th IFAC International Workshop on Dependable Control of Discrete Systems, DCDS 2015, Cancun, Meksika, 27 - 29 Mayıs 2015, cilt.28, ss.161-166

**An optimization model to coordinate scheduling and controlling in projects: Case with instantaneous control constraints**

Hazir Ö., Schmidt K. V. , Eryılmaz U.

1st International Conference on Engineering and Applied Sciences Optimization, OPT-i 2014, Kos Island, Yunanistan, 4 - 06 Haziran 2014, ss.2095-2110

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Sülek A. N. , Schmidt K. V.

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ss.428-433

● **Computation of fault-tolerant supervisors for discrete event systems ?**

Sülek A. N. , Schmidt K. V.

4th IFAC Workshop on Dependable Control of Discrete Systems, DCDS 2013, York, İngiltere, 4 - 06 Eylül 2013, cilt.4, ss.115-120

● **Abstraction-based supervisory control for recon-gurable manufacturing systems ?**

Khalid H. M. , Kirik M. S. , Schmidt K. V.

4th IFAC Workshop on Dependable Control of Discrete Systems, DCDS 2013, York, İngiltere, 4 - 06 Eylül 2013, cilt.4, ss.157-162

● **Optimal configuration changes for reconfigurable manufacturing systems**

Schmidt K. V.

52nd IEEE Conference on Decision and Control, CDC 2013, Florence, İtalya, 10 - 13 Aralık 2013, ss.7621-7626

● **Fuzzy Hybrid Systems modeling with application in decision making and control**

Boutalis Y., Moor T., Schmidt K. V.

2012 6th IEEE International Conference Intelligent Systems, IS 2012, Sofija, Bulgaristan, 6 - 08 Eylül 2012, ss.290-296

● **Computation of supervisors for reconfigurable machine tools**

Schmidt K. V.

11th International Workshop on Discrete Event Systems, WODES 2012, Guadalajara, Meksika, 3 - 05 Ekim 2012, cilt.45, ss.227-232

● **Hierarchical control with partial observations: Sufficient conditions**

Boutin O., Komenda J., Masopust T., Schmidt K. V. , Van Schuppen J. H.

2011 50th IEEE Conference on Decision and Control and European Control Conference, CDC-ECC 2011, Orlando, FL, Amerika Birleşik Devletleri, 12 - 15 Aralık 2011, ss.1817-1822

● **Hierarchical multitasking control of discrete event systems: Computation of projections and maximal permissiveness**

Schmidt K. V. , De Queiroz M. H. , Cury J. E.

10th International Workshop on Discrete Event Systems, WODES 2010, Berlin, Almanya, 30 Ağustos - 01 Eylül 2010, cilt.10, ss.98-103

● **Computation of projections for the abstraction-based diagnosability verification**

Schmidt K. V.

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● **Applied supervisory control for a flexible manufacturing system**

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

SCHMİDT K. V. , SCHMİDT Ş. E.

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● **Multi-objective decision making using fuzzy discrete event systems: A mobile robot example**

Boutalis Y., Schmidt K. V.

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

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

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● **Controller aggregation for distributed discrete-event supervisors on a shared-medium network**

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● **Redundant tasks in multitasking control of discrete event systems**

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● **Shared medium communication for distributed discrete event control Dağıtık ayrik olayli denetleyiciler için paylaşımlı ortamda haberleşme**

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● **LibFAUDES - an open source C++ library for discrete event systems**

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● **Controller synthesis for an I/O-based hierarchical system architecture**

Perk S., Moor T., Schmidt K. V.

9th International Workshop on Discrete Event Systems, WODES' 08, Goteborg, İsveç, 28 - 30 Mayıs 2008, ss.474-479

● **Computation of supremal controllable sublanguages and infimal controllable superlanguages for fuzzy discrete event systems**

Schmidt K. V. , Boutalis Y.

2008 Mediterranean Conference on Control and Automation, MED'08, Ajaccio-Corsica, Fransa, 25 - 27 Haziran 2008, ss.400-405

● **On maximal permissiveness of hierarchical and modular supervisory control approaches for discrete event systems**

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2008 9th International Workshop on Discrete Event Systems, Goteborg, Sweden, 28 - 30 Mayıs 2008

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

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

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**Modular and decentralized supervisory control of concurrent discrete event systems using reduced system models**

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**A Hierarchical Architecture for Nonblocking Control of Discrete Event Systems**

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16th Triennial World Congress of International Federation of Automatic Control, IFAC 2005, Prague, Çek Cumhuriyeti, 3 - 08 Temmuz 2005, cilt.16, ss.163-168

**Control input synthesis for hybrid systems using informed search**

Schmidt K. V. , Kapinski J., Krogh B. H.

2004 IEEE International Symposium on Computer Aided Control System Design, Taipei, Tayvan, 2 - 04 Eylül 2004, ss.41-46

**Reachability analysis using proximity based automata**

Kapinski J., Schmidt K. V. , Krogh B.

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**Aspects on analysis and synthesis of linear discrete systems over the finite field  $F_q$**

Reger J., Schmidt K. V.

2003 European Control Conference, ECC 2003, Cambridge, İngiltere, 1 - 04 Eylül 2003, ss.1601-1606

## Desteklenen Projeler

SCHMİDT K. V. , YENİAYDIN Y., Yükseköğretim Kurumları Destekli Proje, ŞERİT TESPİTİ VE ŞERİT TAKİBİ: ALGORİTMA GELİŞTİRME, PROTOTİP UYGULAMASI VE DEĞERLENDİRME, 2018 - 2019



## **Bilimsel Dergilerdeki Faaliyetler**

Turkish Journal Of Electrical Engineering And Computer Sciences, Editör, 2017 - Devam Ediyor  
Discrete Event Dynamic Systems-Theory And Applications, Editör, 2017 - Devam Ediyor

## **Bilimsel Hakemlikler**

OPTICS AND LASER TECHNOLOGY, SCI-E Kapsamındaki Dergi, Aralık 2019  
DISCRETE EVENT DYNAMIC SYSTEMS-THEORY AND APPLICATIONS, SCI-E Kapsamındaki Dergi, Kasım 2019  
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, SCI Kapsamındaki Dergi, Kasım 2019  
ROBOTICS AND AUTONOMOUS SYSTEMS, SCI-E Kapsamındaki Dergi, Kasım 2019  
IEEE TRANSACTIONS ON FUZZY SYSTEMS, SCI Kapsamındaki Dergi, Ekim 2019  
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