

# Prof. KLAUS VERNER SCHMİDT

## Personal Information

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## Education Information

Doctorate, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Engineering, Germany 2002 - 2005

Under Graduate, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Electrical, Electronics And Communication Engineering, Germany 1997 - 2002

Post Graduate, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Electrical, Electronics And Communication Engineering, Germany 1997 - 2002

## Dissertations

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

Post Graduate, 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

## Research Areas

Electrical and Electronics Engineering, Electronic, Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2019 - Continues

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

## Courses

Introduction to Logic Design, Under Graduate, 2019 - 2020

## Advising Theses

Schmidt K. V. , SENSOR FUSION OF A CAMERA AND 2D LIDAR FOR LANE DETECTION AND TRACKING, Post Graduate, Y.YENİAYDIN(Student), 2019

SCHMİDT K. V. , LANE KEEPING CONTROL FOR SELF-DRIVING VEHICLES, Post Graduate, K.SARAÇOĞLU(Student), 2018

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

Schmidt K. V. , Optimal control problems for safe and efficient lane changes of self-driving vehicles, Doctorate, A.HASEEB(Student), 2017

Schmidt K. V. , Fault-tolerant supervisory control of discrete event systems: Methods and examples, Post Graduate, A.NUR(Student), 2015

Schmidt K. V. , Development of laboratory experiments for control and power systems: The water -tank experiment, Post Graduate, A.M.(Student), 2012

Schmidt K. V. , Modeling control and simulation of a drinking water treatment plant, Post Graduate, F.GHAZY(Student), 2012

Schmidt K. V. , Supervisory control for reconfigurable manufacturing systems: Structural changes and re-usability of controllers, Post Graduate, A.NOORULDEEN(Student), 2012

Schmidt K. V. , Development of a DC-motor control laboratory experiment, Post Graduate, A.HASEEB(Student), 2012

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

- **Order-Preserving Languages for the Supervisory Control of Automated Manufacturing Systems**  
Nooruldeen A., SCHMİDT K. V.  
IEEE ACCESS, vol.8, pp.131901-131919, 2020 (Journal Indexed in SCI)
- **Voronoi Boundary Visibility for Efficient Path Planning**  
Al-Dahhan M. R. H. , SCHMİDT K. V.  
IEEE ACCESS, vol.8, pp.134764-134781, 2020 (Journal Indexed in SCI)
- **Formulation and solution of an optimal control problem for industrial project control**  
Schmidt K. V. , Hazır Ö.  
Annals of Operations Research, vol.280, pp.337-350, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, vol.19, pp.113-122, 2018 (Journal Indexed in SCI)
- **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, vol.26, pp.283-295, 2018 (Journal Indexed in SCI)
- **Reconfigurability of behavioural specifications for manufacturing systems**  
SCHMİDT K. V.  
INTERNATIONAL JOURNAL OF CONTROL, vol.90, pp.2605-2617, 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)  
**State attraction under language specification for the reconfiguration of discrete event systems**  
Nooruldeen A., Schmidt K. V.
- IEEE Transactions on Automatic Control, vol.60, pp.1630-1634, 2015 (Journal Indexed in SCI)  
**Computation of supervisors for reconfigurable machine tools**  
Schmidt K. V.
- Discrete Event Dynamic Systems: Theory and Applications, vol.25, pp.125-158, 2015 (Journal Indexed in SCI)  
**Optimal supervisory control of discrete event systems: Cyclicity and interleaving of tasks**  
Schmidt K. V.
- SIAM Journal on Control and Optimization, vol.53, pp.1425-1439, 2015 (Journal Indexed in SCI)  
**A framework for state attraction of discrete event systems under partial observation**  
Schmidt K. V. , Breindl C.
- Information Sciences, vol.281, pp.265-280, 2014 (Journal Indexed in SCI)  
**Robust Priority Assignments for Extending Existing Controller Area Network Applications**  
SCHMİDT K. V.
- IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol.10, pp.578-585, 2014 (Journal Indexed in SCI)  
**Verification of Modular Diagnosability With Local Specifications for Discrete-Event Systems**  
SCHMİDT K. V.
- IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS, vol.43, pp.1130-1140, 2013 (Journal Indexed in SCI)  
**An integrated scheduling and control model for multi-mode projects**  
Hazır Ö., Schmidt K. V.
- Flexible Services and Manufacturing Journal, vol.25, pp.230-254, 2013 (Journal Indexed in SCI)  
**Efficient Abstractions for the Supervisory Control of Modular Discrete Event Systems**  
SCHMİDT K. V. , Ribeiro Cury J. E.
- IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.57, pp.3224-3229, 2012 (Journal Indexed in SCI)  
**Fuzzy Discrete Event Systems for Multiobjective Control: Framework and Application to Mobile Robot Navigation**  
SCHMİDT K. V. , Boutalis Y.
- IEEE TRANSACTIONS ON FUZZY SYSTEMS, vol.20, pp.910-922, 2012 (Journal Indexed in SCI)  
**Maximally Permissive Hierarchical Control of Decentralized Discrete Event Systems**  
SCHMİDT K. W. , Breindl C.
- IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.56, pp.723-737, 2011 (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)  
**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)  
**Nonblocking Hierarchical Control of Decentralized Discrete Event Systems**  
SCHMİDT K. V. , MOOR T., PERK S.
- IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.53, pp.2252-2265, 2008 (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 finite field framework for modeling, analysis and control of finite state automata**  
Reger J., Schmidt K. V.
- Mathematical and Computer Modelling of Dynamical Systems, vol.10, pp.253-285, 2004 (Journal Indexed in SCI)  
**Modeling and analyzing finite state automata in the finite field  $F_2$**   
Reger J., Schmidt K. V.
- Mathematics and Computers in Simulation, vol.66, pp.193-206, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Cooperative Adaptive Cruise Control for Vehicle Following During Lane Changes**  
Schmidt K. V.  
IFAC-PapersOnLine, vol.50, pp.12582-12587, 2017 (Refereed Journals of Other Institutions)
- **The Controllability Prefix for Supervisory Control under Partial Observation with an Application to Fault-Tolerant Control**  
Moor T., Schmidt K. V.  
IFAC-PapersOnLine, vol.50, pp.13642-13647, 2017 (Refereed Journals of Other Institutions)
- **Abstraction-based control for not necessarily closed behaviours**  
Moor T., Schmidt K. V., Wittmann T.  
IFAC Proceedings Volumes (IFAC-PapersOnline), vol.44, pp.6988-6993, 2011 (Refereed Journals of Other Institutions)
- **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

- **Sensor Fusion of a Camera and 2D LIDAR for Lane Detection**  
Yeniaydn Y., Schmidt K. V.  
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Sivas, Turkey, 24 - 26 April 2019, pp.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, 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
- **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
- **Robust Lane Recognition Based on Arc Splines**  
SCHMİDT K. V., Yeniaydn Y.  
Digital Transformation Smart Systems, 24 - 26 October 2018
- **Robust Lane Recognition Based on Arc Splines**  
Yeniaydn Y., SCHMİDT K. V.  
International Conference & Exhibition on Digital Transformation & Smart Systems, Ankara, Turkey, 24 - 26 October 2018, vol.1, pp.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 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), İzmir, Turkey, 2 - 05 May 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, Turkey, 2 - 05 May 2018

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

Yeniaydn Y., Schmidt K. V.

26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.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, France, 14 - 16 June 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, France, 14 - 16 June 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

● **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 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

● **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, Turkey, 15 - 18 May 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, Turkey, 18 - 20 May 2016, vol.49, pp.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, Sweden, 24 - 28 August 2015, pp.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, Mexico, 27 - 29 May 2015, vol.28, pp.161-166

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

Hazir Ö., Schmidt K. V. , Eryilmaz U.

1st International Conference on Engineering and Applied Sciences Optimization, OPT-i 2014, Kos Island, Greece, 4 - 06 June 2014, pp.2095-2110

● **Computation of supervisors for fault-recovery and repair for discrete event systems**

Sülek A. N. , Schmidt K. V.

12th IFAC/IEEE Workshop on Discrete Event Systems, WODES 2104, Cachan, France, 14 - 16 May 2014, vol.9, pp.428-433

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

Süle A. N. , Schmidt K. V.

4th IFAC Workshop on Dependable Control of Discrete Systems, DCDS 2013, York, United Kingdom, 4 - 06 September 2013, vol.4, pp.115-120

● **Abstraction-based supervisory control for reconfigurable manufacturing systems ?**

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

4th IFAC Workshop on Dependable Control of Discrete Systems, DCDS 2013, York, United Kingdom, 4 - 06 September 2013, vol.4, pp.157-162

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

Schmidt K. V.

52nd IEEE Conference on Decision and Control, CDC 2013, Florence, Italy, 10 - 13 December 2013, pp.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, Bulgaria, 6 - 08 September 2012, pp.290-296

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

Schmidt K. V.

11th International Workshop on Discrete Event Systems, WODES 2012, Guadalajara, Mexico, 3 - 05 October 2012, vol.45, pp.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, United States Of America, 12 - 15 December 2011, pp.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, Germany, 30 August - 01 September 2010, vol.10, pp.98-103

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

Schmidt K. V.

10th International Workshop on Discrete Event Systems, WODES 2010, Berlin, Germany, 30 August - 01 September 2010, vol.10, pp.199-204

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

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

10th International Workshop on Discrete Event Systems, WODES 2010, Berlin, Germany, 30 August - 01 September 2010, vol.10, pp.253-258

● **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

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

Boutalis Y., Schmidt K. V.

18th Mediterranean Conference on Control and Automation, MED'10, Marrakech, Morocco, 23 - 25 June 2010, pp.575-580

● **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

● **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

● **Mobile robot navigation based on fuzzy discrete event systems**

Tampakis G., Schmidt K. V. , Boutalis Y.

2nd IFAC International Conference on Intelligent Control Systems and Signal Processing, İstanbul, Turkey, 21 - 23

September 2009, vol.2

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

Schmidt K. V.

2nd IFAC Workshop on Dependable Control of Discrete Systems, DCDS'09, Bari, Italy, 10 - 12 June 2009, vol.2, pp.81-86

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

Schmidt K. V. , Cury J. E.

2nd IFAC Workshop on Dependable Control of Discrete Systems, DCDS'09, Bari, Italy, 10 - 12 June 2009, vol.2, pp.16-21

● **Reliable and safe operation of distributed discrete-event controllers: A networked implementation**

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

17th World Congress, International Federation of Automatic Control, IFAC, Seoul, South Korea, 6 - 11 July 2008, vol.17

● **Message scheduling for the static segment of the FlexRay protocol FlexRay protokolu statik bölüdü için mesaj çizelgelenmesi**

Schmidt E. G. , Schmidt K. V.

2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 April 2008

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

Schmidt E. G. , Schmidt K. V.

2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 April 2008

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

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

9th International Workshop on Discrete Event Systems, WODES' 08, Goteborg, Sweden, 28 - 30 May 2008, pp.125-130

● **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, Sweden, 28 - 30 May 2008, pp.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, France, 25 - 27 June 2008, pp.400-405

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

SCHMİDT K. V. , Breindl C.

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

● **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

● **Hierarchical and decentralized multitasking control of discrete event systems**

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

46th IEEE Conference on Decision and Control 2007, CDC, New Orleans, LA, United States Of America, 12 - 14 December 2007, pp.5936-5941

● **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

- **A shared-medium communication architecture for distributed discrete event systems**  
Schmidt K., Schmidt E. G. , Zaddach J.  
15th Mediterranean Conference on Control and Automation, Athens, Greece, 27 - 29 June 2007, pp.333-334
- **Hierarchical discrete event systems with inputs and outputs**  
Perk S., Moor T., Schmidt K. V.  
8th International Workshop on Discrete Event Systems, WODES 2006, Ann Arbor, MI, United States Of America, 10 - 12 July 2006, pp.427-432
- **Modular and decentralized supervisory control of concurrent discrete event systems using reduced system models**  
Schmidt K. V. , Marchand H., Gaudin B.  
8th International Workshop on Discrete Event Systems, WODES 2006, Ann Arbor, MI, United States Of America, 10 - 12 July 2006, pp.149-154
- **Marked-string accepting observers for the hierarchical and decentralized control of discrete event systems**  
Schmidt K. V. , Moor T.  
8th International Workshop on Discrete Event Systems, WODES 2006, Ann Arbor, MI, United States Of America, 10 - 12 July 2006, pp.413-418
- **A Hierarchical Architecture for Nonblocking Control of Discrete Event Systems**  
SCHMİDT K. V. , MOOR T., PERK S.  
Proceedings of the 2005 IEEE International Symposium on, Mediterrean Conference on Control and Automation Intelligent Control, 2005., Limassol, Cyprus, 27 - 29 June 2005
- **Nonblocking hierarchical control of decentralized des**  
Schmidt K. V. , Perk S., Moor T.  
16th Triennial World Congress of International Federation of Automatic Control, IFAC 2005, Prague, Czech Republic, 3 - 08 July 2005, vol.16, pp.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, Taiwan, 2 - 04 September 2004, pp.41-46
- **Reachability analysis using proximity based automata**  
Kapinski J., Schmidt K. V. , Krogh B.  
7th International Workshop on Discrete Event Systems, WODES 2004, Reims, France, 22 - 24 September 2004, vol.37, pp.315-320
- **Hierarchical control for structural decentralized des**  
Schmidt K. V. , Reger J., Moor T.  
7th International Workshop on Discrete Event Systems, WODES 2004, Reims, France, 22 - 24 September 2004, vol.37, pp.279-284
- **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, United Kingdom, 1 - 04 September 2003, pp.1601-1606

## Supported Projects

SCHMİDT K. V. , YENİAYDIN Y., Project Supported by Higher Education Institutions, ŞERİT TESPİTİ VE ŞERİT TAKİBİ: ALGORİTMA GELİŞTİRME, PROTOTİP UYGULAMASI VE DEĞERLENDİRME, 2018 - 2019

## Activities in Scientific Journals

Discrete Event Dynamic Systems-Theory And Applications, Editor, 2017 - Continues



## Scientific Refereeing

OPTICS AND LASER TECHNOLOGY, Journal Indexed in SCI-E, December 2019  
DISCRETE EVENT DYNAMIC SYSTEMS-THEORY AND APPLICATIONS, Journal Indexed in SCI-E, November 2019  
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, SCI Journal, November 2019  
ROBOTICS AND AUTONOMOUS SYSTEMS, Journal Indexed in SCI-E, November 2019  
IEEE TRANSACTIONS ON FUZZY SYSTEMS, SCI Journal, October 2019  
INFORMATION SCIENCES, SCI Journal, July 2019  
JOURNAL OF ADVANCED TRANSPORTATION, Journal Indexed in SCI-E, July 2019  
COMPUTER STANDARDS & INTERFACES, Journal Indexed in SCI-E, March 2019  
International Journal of Intelligent Unmanned Systems, Journal Indexed in ESCI, February 2019  
European Journal Of Control, Journal Indexed in SCI-E, February 2019  
Automatica, SCI Journal, January 2019

## Citations

Total Citations (WOS):393  
h-index (WOS):11