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Yoksis Araştırmacı ID: [22274](https://yoksis.gov.tr/yoksis/arastrmaci/22274)

Eğitim Bilgileri

Doktora, The University of Salford, Birleşik Krallık 1994 - 1998

Yüksek Lisans, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği, Türkiye 1989 - 1991

Lisans, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Müh.Bölümü, Türkiye 1985 - 1989

Biyografi

Murat Uzam was born in Söke, Turkey, in 1968. He received his BSc and MSc degrees from Electrical Engineering Department, Yıldız Technical University, İstanbul, Turkey, in 1989 and 1991, respectively, and the Ph.D. degree from University of Salford, Salford, U.K., in 1998. He was with Niğde University, Turkey, from 1993 to 2010 in the Department of Electrical and Electronics Engineering as a Research Assistant, Assistant Professor, Associate Professor and Professor. He was a Professor in the Department of Electrical and Electronics Engineering, at Melikşah University in Kayseri, Turkey from 2011 to 2016. Since 15 April 2020, he has been serving as a Professor in the Department of Electrical and Electronics Engineering, at Yozgat Bozok University in Yozgat, Turkey. He was a Visiting Researcher with INRIA, University of Metz and University of Rennes, France, in 1999, with University of Toronto, Toronto, ON, Canada, in 2003, and with Xidian University, Xi'an, China, in 2013, 2015 and 2019. He has published 47 conference papers and 110 journal and magazine papers, 73 of which are indexed by Science Citation Index Expanded (SCIE). He has published two books in Turkish and four books in English by CRC Press (Taylor & Francis Group). According to Publons, his H-Index is 17 and his papers have been cited more than 1500 times by the papers indexed in the SCIE. Dr. Uzam has been serving as a reviewer for prestigious journals and conferences. According to Publons, the number of his verified reviews is 97. His current research interests include design and implementation of discrete event control systems modelled by Petri nets and, in particular, deadlock prevention/liveness enforcing in flexible manufacturing systems, programmable logic controllers (PLCs), microcontrollers (especially PIC microcontrollers), and design of microcontroller-based PLCs.

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Petri-Net-Based Supervisory Control of Discrete Event Systems and Their Ladder Logic Diagram Implementations, The University of Salford, 1998

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Yozgat Bozok Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Devam Ediyor

Prof. Dr., Melikşah Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2016

Prof. Dr., Niğde Ömer Halisdemir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2009 - 2010

Doç. Dr., Niğde Ömer Halisdemir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2004 - 2009

Yrd. Doç. Dr., Niğde Ömer Halisdemir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1999 - 2004

Araştırma Görevlisi, Niğde Ömer Halisdemir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1999

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 1990 - 1993

Akademik İdari Deneyim

Bölüm Başkanı, Yozgat Bozok Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Devam Ediyor

Bölüm Başkanı, Melikşah Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü (İngilizce), 2014 - 2016

Bölüm Başkanı, Melikşah Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2016

Anabilim/Bilim Dalı Başkanı, Melikşah Üniversitesi, 2011 - 2016

Melikşah Üniversitesi, 2011 - 2014

Niğde Ömer Halisdemir Üniversitesi, 2009 - 2010

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Niğde Ömer Halisdemir Üniversitesi, 2000 - 2001

Verdiği Dersler

Sayısal Tasarım, Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Industrial Control Systems, Lisans, 2015 - 2016

Digital Design Laboratory, Lisans, 2015 - 2016
Sayısal Tasarım Laboratuvarı, Lisans, 2015 - 2016
Endüstriyel Kontrol Sistemleri, Lisans, 2015 - 2016, 2013 - 2014, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
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AYRIK OLAY SİSTEMLERİNİN KONTROLÜ, Yüksek Lisans, 2008 - 2009, 2007 - 2008
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Yönetilen Tezler

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UZAM M., A near-optimal approach for the synthesis of petri net based liveness enforcing supervisors in flexible manufacturing systems, Yüksek Lisans, T.LAWAN(Öğrenci), 2014
UZAM M., The design and implementation of a flexible domestic illumination system, Yüksek Lisans, E.ARİF(Öğrenci), 2013
UZAM M., 16 bitlik bir PIC mikrodenetleyicisi ile bir programlanabilir lojik denetleyici tasarımı ve uygulaması, Yüksek Lisans, A.HARMANDA(Öğrenci), 2011
UZAM M., Ramadge-Wonham yöntemi kullanılarak elde edilen bir gözetimin PLC'lere yüklenmek üzere kontrol koduna dönüştürülmesi için genel bir yöntem, Yüksek Lisans, R.DALCI(Öğrenci), 2010
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UZAM M., Mikrodenetleyici tabanlı RF'li kontrol uygulaması, Yüksek Lisans, Y.DURNA(Öğrenci), 2007

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UZAM M., Genişletilmiş otomasyon petri netlerin Xilinx XC2S200 FPGA'sı ile gerçekleştirilmesi, Yüksek Lisans, G.GELEN(Öğrenci), 2006

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UZAM M., Mobil robot uygulaması, Yüksek Lisans, M.KÜRŞAT(Öğrenci), 2003

UZAM M., PIC mikrodenetleyicisi kullanarak deneysel bir endüstriyel sistemin kontrol edilmesi, Yüksek Lisans, H.FİKRET(Öğrenci), 2002

UZAM M., Siemens S7-200 CPU 214 programlanabilir lojik denetleyicisi ile deneysel bir endüstriyel sistemin kontrolü, Yüksek Lisans, M.TAŞTAN(Öğrenci), 2002

UZAM M., SCADA sistemleri ve uygulamaları, Yüksek Lisans, R.TAPU(Öğrenci), 2002

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Yozgat Bozok Üniversitesi, Nisan, 2021

Doçentlik Sınavı, Doçentlik Sınavı, Yozgat Bozok Üniversitesi, Aralık, 2020

Doçentlik Sınavı, Doçentlik Sınavı, Yozgat Bozok Üniversitesi, Ağustos, 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Optimality Test for Control Places of Petri Net Based Liveness Enforcing Supervisors of FMSs**
Uzam M., Li Z., El-Meligy M. A., Sharaf M., Tang Q.
IEEE Access, cilt.12, ss.20031-20046, 2024 (SCI-Expanded)
- II. **Design of an Improved Think Globally Act Locally Approach for the Computation of Petri Nets Based Liveness Enforcing Supervisors of FMSs**
UZAM M., El-Sherbeeny A. M., Guo W., Li Z.
IEEE Access, cilt.12, ss.74367-74388, 2024 (SCI-Expanded)
- III. **Petri Net-Based Robust Supervisory Control of Automated Manufacturing Systems With Multiple Unreliable Resources**
Abubakar U. S., Liu G., Uzam M.
IEEE ACCESS, cilt.9, ss.100264-100278, 2021 (SCI-Expanded)
- IV. **A Think-Globally-Act-Locally-Based Method of Maximally Permissive Liveness-Enforcing Supervisors for Flexible Manufacturing Systems**
Li C., Chen Y., Zhong Z., UZAM M., Li Z., Wu N., Zhang M.
CONTROL ENGINEERING AND APPLIED INFORMATICS, cilt.23, sa.4, ss.46-56, 2021 (SCI-Expanded)
- V. **Robust Diagnosability Analysis of Discrete Event Systems Using Labeled Petri Nets**
Li S., UZAM M., Yin L., Zhong Z., Zheng L., Wu N.
IEEE ACCESS, cilt.9, ss.163504-163515, 2021 (SCI-Expanded)
- VI. **On structural reduction of liveness-enforcing Petri net supervisors for flexible manufacturing systems: an algebraic approach**
Bashir M., Li Z., UZAM M., Wu N., Al-Ahmari A.

IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION, cilt.35, sa.4, ss.1217-1249, 2018 (SCI-Expanded)

- VII. **On the synthesis of liveness-enforcing supervisors for flexible manufacturing systems using global idle places**

Zhang X., UZAM M., Li Z., Wu N.

IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION, cilt.35, sa.1, ss.165-182, 2018 (SCI-Expanded)

- VIII. **Optimal enforcement of liveness to flexible manufacturing systems modeled with Petri nets via transition-based controllers**

Bashir M., Liu D., UZAM M., Wu N., Al-Ahmari A., Li Z.

ADVANCES IN MECHANICAL ENGINEERING, cilt.10, sa.1, 2018 (SCI-Expanded)

- IX. **Design of Optimal Petri Net Supervisors for Flexible Manufacturing Systems via Weighted Inhibitor Arcs**

Cong X., Gu C., UZAM M., Chen Y., Al-Ahmari A. M., Wu N., Zhou M., Li Z.

ASIAN JOURNAL OF CONTROL, cilt.20, sa.1, ss.511-530, 2018 (SCI-Expanded)

- X. **A new method for the redundancy analysis of Petri net-based liveness enforcing supervisors**

Gelen G., UZAM M., Li Z.

TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, cilt.39, sa.5, ss.763-780, 2017 (SCI-Expanded)

- XI. **A suboptimal deadlock control policy for designing non-blocking supervisors in flexible manufacturing systems**

Zhao M., UZAM M.

INFORMATION SCIENCES, cilt.388, ss.135-153, 2017 (SCI-Expanded)

- XII. **A Minimal Supervisory Structure to Optimally Enforce Liveness on Petri Net Models for Flexible Manufacturing Systems**

Bashir M., Li Z., UZAM M., Al-Ahmari A., Wu N., Liu D., Qu T.

IEEE ACCESS, cilt.5, ss.15731-15749, 2017 (SCI-Expanded)

- XIII. **On near-optimal deadlock control for a class of generalized Petri nets using reachability graph**

Hou Y., UZAM M., Zhao M., Li Z.

ENGINEERING COMPUTATIONS, cilt.34, sa.6, ss.1896-1922, 2017 (SCI-Expanded)

- XIV. **A divide-and-conquer-method for the synthesis of liveness enforcing supervisors for flexible manufacturing systems**

UZAM M., Li Z., Gelen G., Zakariyya R. S.

JOURNAL OF INTELLIGENT MANUFACTURING, cilt.27, sa.5, ss.1111-1129, 2016 (SCI-Expanded)

- XV. **Think-globally-act-locally approach with weighted arcs to the synthesis of a liveness-enforcing supervisor for generalized Petri nets modeling FMSs**

UZAM M., Gelen G., Saleh T. L.

INFORMATION SCIENCES, cilt.363, ss.235-260, 2016 (SCI-Expanded)

- XVI. **Near-optimal supervisory control of flexible manufacturing systems using divide-and-conquer iterative method**

Zhao M., UZAM M., Hou Y.

ADVANCES IN MECHANICAL ENGINEERING, cilt.8, sa.3, 2016 (SCI-Expanded)

- XVII. **Monitor design with multiple self-loops for maximally permissive supervisors**

Chen Y., Li Z., Barkaoui K., UZAM M.

ISA TRANSACTIONS, cilt.61, ss.129-140, 2016 (SCI-Expanded)

- XVIII. **Transition-based deadlock control policy using reachability graph for flexible manufacturing systems**

Zhang X., UZAM M.

ADVANCES IN MECHANICAL ENGINEERING, cilt.8, sa.2, 2016 (SCI-Expanded)

- XIX. **Think globally act locally approach for the synthesis of a liveness-enforcing supervisor of FMSs based on Petri nets**

UZAM M., Li Z., Abubakar U. S.

- INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, cilt.54, sa.15, ss.4634-4657, 2016 (SCI-Expanded)
- XX. **A merging method for the siphon-based FMS maximally permissive controllers with simpler structures**
Liu G. Y., Chao D. Y., UZAM M.
IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION, cilt.31, sa.4, ss.551-573, 2014 (SCI-Expanded)
- XXI. **The synthesis and PLC implementation of hybrid modular supervisors for real time control of an experimental manufacturing system**
Gelen G., UZAM M.
JOURNAL OF MANUFACTURING SYSTEMS, cilt.33, sa.4, ss.535-550, 2014 (SCI-Expanded)
- XXII. **New Petri Net Structure and Its Application to Optimal Supervisory Control: Interval Inhibitor Arcs**
Chen Y., Li Z., Barkaoui K., UZAM M.
IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS, cilt.44, sa.10, ss.1384-1400, 2014 (SCI-Expanded)
- XXIII. **On deadlock-free control of automated manufacturing systems with flexible routes and assembly operations using Petri nets**
UZAM M., Gelen G.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.74, ss.1213-1217, 2014 (SCI-Expanded)
- XXIV. **On an iterative deadlock prevention approach for automated manufacturing systems**
UZAM M., Li Z.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.74, ss.503-507, 2014 (SCI-Expanded)
- XXV. **On a deadlock prevention policy for a class of Petri nets (SPMR)-P-3**
UZAM M., Gelen G.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.73, ss.315-319, 2014 (SCI-Expanded)
- XXVI. **Comments on "Efficient deadlock prevention policy in automated manufacturing systems using exhausted resources"**
UZAM M., Gelen G.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.71, ss.1729-1731, 2014 (SCI-Expanded)
- XXVII. **Maximally permissive deadlock prevention via an invariant controlled method**
Liu G., Chao D. Y., UZAM M.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, cilt.51, sa.15, ss.4431-4442, 2013 (SCI-Expanded)
- XXVIII. **Reaching most states via refining controller regions for supervisors of two well-known S3PRs**
Chao D. Y., Chen J., UZAM M.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, cilt.51, sa.15, ss.4421-4430, 2013 (SCI-Expanded)
- XXIX. **An improved hybrid approach for the PLC-based implementation of reduced RW supervisors**
UZAM M., Gelen G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.21, sa.2, ss.394-419, 2013 (SCI-Expanded)
- XXX. **A general technique for the PLC-Based implementation of RW supervisors with time delay functions**
UZAM M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.62, ss.687-704, 2012 (SCI-Expanded)
- XXXI. **Novel analysis of Petri-net-based controllers by means of TCT implementation tool of supervisory control theory**
Gelen G., UZAM M.
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, cilt.4, sa.3, ss.360-396, 2010 (SCI-Expanded)
- XXXII. **PLC with PIC16F648A Microcontroller - PART 22**
UZAM M.

- ELECTRONICS WORLD, cilt.116, sa.1892, ss.40-42, 2010 (SCI-Expanded)
- XXXIII. **PLC with PIC16F648A Microcontroller Part 21**
UZAM M.
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- XXXIV. **PLC with PIC16F648A Microcontroller Part 20**
UZAM M.
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- XXXV. **PLC WITH PIC16F648A MICROCONTROLLER - Part 19**
UZAM M.
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- XXXVI. **PLC with PIC16F648A Microcontroller Part 18**
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- XXXVIII. **On suboptimal supervisory control of Petri nets in the presence of uncontrollable transitions via monitor places**
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- XXXIX. **PLC WITH PIC16F648A MICROCONTROLLER - PART 16**
UZAM M.
ELECTRONICS WORLD, cilt.116, sa.1886, ss.41-42, 2010 (SCI-Expanded)
- XL. **PLC with PIC16F648A Microcontroller - Part 15**
UZAM M.
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- XLI. **PLC with PIC16F648A Microcontroller - Part 14**
UZAM M.
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- XLII. **PLC with PIC16F648A Microcontroller - Part 13**
UZAM M.
ELECTRONICS WORLD, cilt.115, sa.1883, ss.42-44, 2009 (SCI-Expanded)
- XLIII. **The real-time supervisory control of an experimental manufacturing system based on a hybrid method**
UZAM M., Gelen G.
CONTROL ENGINEERING PRACTICE, cilt.17, sa.10, ss.1174-1189, 2009 (SCI-Expanded)
- XLIV. **PLC with PIC16F648A Microcontroller - Part 12**
UZAM M.
ELECTRONICS WORLD, cilt.115, sa.1882, ss.36-41, 2009 (SCI-Expanded)
- XLV. **PLC with PIC16F648A Microcontroller - Part 11**
UZAM M.
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- XLVI. **PLC with PIC16F648A Microcontroller - Part 10**
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- XLVII. **PLC with PIC16F648A Microcontroller - Part 9**
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- XLVIII. **PLC with PIC16F648A Microcontroller - Part 8**
UZAM M.

- ELECTRONICS WORLD, cilt.115, sa.1878, ss.30-32, 2009 (SCI-Expanded)
- XLIX. **PLC with PIC16F648A Microcontroller - Part 7**
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- L. **PLC with PIC16F648A Microcontroller - Part 6**
UZAM M.
ELECTRONICS WORLD, cilt.115, sa.1876, ss.26-30, 2009 (SCI-Expanded)
- LI. **Asynchronous implementation of discrete event controllers based on safe automation Petri nets**
UZAM M., Koc I. B., Gelen G., AKSEBZECİ B. H.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.41, ss.595-612, 2009 (SCI-Expanded)
- LII. **PLC with PIC16F648A Microcontroller - Part 5**
UZAM M.
ELECTRONICS WORLD, cilt.115, sa.1875, ss.30-33, 2009 (SCI-Expanded)
- LIII. **PLC with PIC16F648A Microcontroller - Part 4**
UZAM M.
ELECTRONICS WORLD, cilt.115, sa.1874, ss.34-40, 2009 (SCI-Expanded)
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