Prof. MURAT UZAM

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: E-3930-2012
ScopusID: 6602173877
Yoksis Researcher ID: 22274

Education Information

Doctorate, The University of Salford, United Kingdom 1994 - 1998
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği, Turkey 1989 - 1991
Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 1985 - 1989

Biography

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.

Foreign Languages

English, C1 Advanced

Dissertations

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

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Continues
Professor, Meliksah University, Faculty Of Engıneerıng-Archıtecture, Department Of Electrıcal And Electronıcs Engıneerıng, 2011 - 2016
Professor, Nigde Omer Halisdemir University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıc Engıneerıng, 2009 - 2010
Associate Professor, Nigde Omer Halisdemir University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıc Engıneerıng, 2004 - 2009
Assistant Professor, Nigde Omer Halisdemir University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıc Engıneerıng, 1999 - 2004
Research Assistant, Nigde Omer Halisdemir University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıc Engıneerıng, 1993 - 1999
Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektrik Mühendisliği Bölümü, 1990 - 1993

Academic and Administrative Experience

Head of Department, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Continues
Head of Department, Meliksah University, Faculty Of Engıneerıng-Archıtecture, Department Of Electrıcal And Electronıcs Engıneerıng (Englısh), 2014 - 2016
Head of Department, Meliksah University, Faculty Of Engıneerıng-Archıtecture, Department Of Electrıcal And Electronıcs Engıneerıng, 2014 - 2016
Head of Department, Meliksah University, 2011 - 2016
Meliksah University, 2011 - 2014
Nigde Omer Halisdemir University, 2009 - 2010
Nigde Omer Halisdemir University, 2004 - 2010
Nigde Omer Halisdemir University, 2007 - 2007
Nigde Omer Halisdemir University, 2004 - 2005
Nigde Omer Halisdemir University, 1998 - 2004
Nigde Omer Halisdemir University, 2000 - 2001

Courses

Sayısal Tasarım, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Industrial Control Systems, Undergraduate, 2015 - 2016
Digital Design Laboratory, Undergraduate, 2015 - 2016
Sayısal Tasarım Laboratuvarı, Undergraduate, 2015 - 2016
Endüstriyel Kontrol Sistemleri, Undergraduate, 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
Digital Design, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Graduation Project, Undergraduate, 2014 - 2015
Bitirme Projesi, Undergraduate, 2014 - 2015
Design of a Microcontroller Based PLC, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
PIC PLC, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2008 - 2009, 2007 - 2008
PROGRAMLANABİLİR LOJİK DENETLEYİCİLER, Postgraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
Elektrik-Elektronik Mühendisliğine Giriş, Undergraduate, 2010 - 2011
DESIGN WITH PIC MICROCONTROLLERS, Postgraduate, 2010 - 2011
LOJİK DEVRE LABORATUVARI, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
LOGIC CIRCUITS, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009
LOJİK DEVRELER, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
MİKROİŞLEMCİLER, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
MİKROİŞLEMCİLER LABORATUVARI, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
AYRIK OLAY SİSTEMLERİNİN KONTROLU, Postgraduate, 2008 - 2009, 2007 - 2008
LOJİK DEVRE TASARIMI, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
LOJİK DEVRE GİRİŞİ, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
FPGA İLE LOJİK TASARIM, Postgraduate, 2006 - 2007
PETRİ NETLER YARDIMIYLA AYRIK OLAY SİSTEMLERİNDE KİLİTLENMENİN ÖNLENMESİ, Doctorate, 2006 - 2007
AYRIK OLAY SİSTEMLERİNİN GÖZETİMLİ KONTROLU, Doctorate, 2006 - 2007
ENSTRUMANTASYON ELEKTRONİĞİ, Undergraduate, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

Advising Theses

UZAM M., A general approach for the synthesis of petri net based liveness enforcing supervisors in flexible manufacturing systems, Postgraduate, U.SULEIMAN(Student), 2014
UZAM M., A study on the computational complexity reduction of petri net based liveness-enforcing supervisors in flexible manufacturing systems, Postgraduate, S.GARBA(Student), 2014
UZAM M., A petri net based divide and conquer method for the synthesis of liveness enforcing supervisors in FMS, Postgraduate, R.SALEH(Student), 2014
UZAM M., A near-optimal approach for the synthesis of petri net based liveness enforcing supervisors in flexible manufacturing systems, Postgraduate, T.LAWAN(Student), 2014
UZAM M., A study on the structural complexity reduction of petri net based liveness-enforcing supervisors in flexible manufacturing systems, Postgraduate, M.BASHIR(Student), 2014
UZAM M., The design and implementation of a flexible domestic illumination system, Postgraduate, E.ARİF(Student), 2013
UZAM M., 16 bitlik bir PIC mikrodenetleyicisi ile bir programlanabilir lojik denetleyici tasarımı ve uygulaması, Postgraduate, A.HARMANDA(Student), 2011
UZAM M., Petri ağları ve Ramadge Wonham yöntemlerinin ayrık olay sistemlerinin kontrolüne uygulanmasında yeni

melez yaklaşımlar ve üretim sistemlerine uygulanması, Doctorate, G.GELEN(Student), 2010
UZAM M., CAN Bus ile dağıtık kontrol uygulaması, Postgraduate, E.DİNÇER(Student), 2010
UZAM M., Ramadge-Wonham yöntemi kullanılarak elde edilen bir gözeticinin PLC'lere yüklenmek üzere kontrol koduna dönüştürülmesi için genel bir yöntem, Postgraduate, R.DALCI(Student), 2010
UZAM M., PIC16F84 mikrodenetleyicisi ile bir programlanabilir lojik denetleyici tasarımı ve uygulaması, Postgraduate, Ş.KİTİŞ(Student), 2007
UZAM M., Mikrodenetleyici tabanlı RF'li kontrol uygulaması, Postgraduate, Y.DURNA(Student), 2007
UZAM M., Otomasyon petri netlerin parsic görsel programlama ortamında gerçekleştirilmesi ve PIC mikrodenetleyicileri yardımıyla uygulanması, Postgraduate, Ç.TATYÜZ(Student), 2006
UZAM M., Genişletilmiş otomasyon petri netlerin Xilinx XC2S200 FPGA`sı ile gerçekleştirilmesi, Postgraduate, G.GELEN(Student), 2006
UZAM M., Bir endüstriyel kontrol sisteminin petri netler yardımıyla modellennmesi ve xilinx XC2S200 FPGA'sı ile gerçekleştirilmesi, Postgraduate, İ.BURAK(Student), 2005
UZAM M., Bir asansör kontrol sisteminin petri netler yardımıyla modellenmesi ve xilinx XC2S200E FPGA'sı ile gerçekleştirilmesi, Postgraduate, B.HAKAN(Student), 2005
UZAM M., Mobil robot uygulaması, Postgraduate, M.KÜRŞAT(Student), 2003
UZAM M., SCADA sistemleri ve uygulamaları, Postgraduate, R.TAPU(Student), 2002
UZAM M., PIC mikrodenetleyicisi kullanarak deneysel bir endüstriyel sistemin kontrol edilmesi, Postgraduate, H.FİKRET(Student), 2002
UZAM M., Siemens S7-200 CPU 214 programlanabilir lojik denetleyicisi ile deneysel bir endüstriyel sistemin kontrolü, Postgraduate, M.TAŞTAN(Student), 2002

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Yozgat Bozok Üniversitesi, April, 2021
Associate Professor Exam, Associate Professor Exam, Yozgat Bozok Üniversitesi, December, 2020
Associate Professor Exam, Associate Professor Exam, Yozgat Bozok Üniversitesi, August, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

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, vol.12, pp.20031-20046, 2024 (SCI-Expanded)

II. **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, vol.9, pp.163504-163515, 2021 (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, vol.9, pp.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, vol.23, no.4, pp.46-56, 2021 (SCI-Expanded)

V. **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, vol.35, no.4, pp.1217-1249, 2018 (SCI-Expanded)

VI. **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, vol.35, no.1, pp.165-182, 2018 (SCI-Expanded)

VII. **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, vol.20, no.1, pp.511-530, 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, vol.10, no.1, 2018 (SCI-Expanded)

IX. **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, vol.39, no.5, pp.763-780, 2017 (SCI-Expanded)

X. **A suboptimal deadlock control policy for designing non-blocking supervisors in flexible manufacturing systems**
Zhao M., UZAM M.
INFORMATION SCIENCES, vol.388, pp.135-153, 2017 (SCI-Expanded)

XI. **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, vol.5, pp.15731-15749, 2017 (SCI-Expanded)

XII. **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, vol.34, no.6, pp.1896-1922, 2017 (SCI-Expanded)

XIII. **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, vol.363, pp.235-260, 2016 (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, vol.27, no.5, pp.1111-1129, 2016 (SCI-Expanded)

XV. **Near-optimal supervisory control of flexible manufacturing systems using divide-and-conquer iterative method**
Zhao M., UZAM M., Hou Y.
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.3, 2016 (SCI-Expanded)

XVI. **Monitor design with multiple self-loops for maximally permissive supervisors**
Chen Y., Li Z., Barkaoui K., UZAM M.
ISA TRANSACTIONS, vol.61, pp.129-140, 2016 (SCI-Expanded)

XVII. **Transition-based deadlock control policy using reachability graph for flexible manufacturing systems**
Zhang X., UZAM M.
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.2, 2016 (SCI-Expanded)

XVIII. **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, vol.54, no.15, pp.4634-4657, 2016 (SCI-Expanded)

XIX. **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, vol.31, no.4, pp.551-573, 2014 (SCI-Expanded)

XX. **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, vol.44, no.10, pp.1384-1400, 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, vol.33, no.4, pp.535-550, 2014 (SCI-Expanded)

XXII. **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, vol.74, pp.1213-1217, 2014 (SCI-Expanded)

XXIII. **On an iterative deadlock prevention approach for automated manufacturing systems**
UZAM M., Li Z.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.74, pp.503-507, 2014 (SCI-Expanded)

XXIV. **On a deadlock prevention policy for a class of Petri nets (SPMR)-P-3**
UZAM M., Gelen G.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.73, pp.315-319, 2014 (SCI-Expanded)

XXV. **Comments on "Efficient deadlock prevention policy in automated manufacturing systems using exhausted resources"**
UZAM M., Gelen G.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.71, pp.1729-1731, 2014 (SCI-Expanded)

XXVI. **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, vol.51, no.15, pp.4421-4430, 2013 (SCI-Expanded)

XXVII. **Maximally permissive deadlock prevention via an invariant controlled method**
Liu G., Chao D. Y., UZAM M.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.51, no.15, pp.4431-4442, 2013 (SCI-Expanded)

XXVIII. **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, vol.21, no.2, pp.394-419, 2013 (SCI-Expanded)

XXIX. **A general technique for the PLC-Based implementation of RW supervisors with time delay functions**
UZAM M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.62, pp.687-704, 2012 (SCI-Expanded)

XXX. **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, vol.4, no.3, pp.360-396, 2010 (SCI-Expanded)

XXXI. **PLC with PIC16F648A Microcontroller - PART 22**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1892, pp.40-42, 2010 (SCI-Expanded)

XXXII. **PLC with PIC16F648A Microcontroller Part 21**

UZAM M.
ELECTRONICS WORLD, vol.116, no.1891, pp.40-41, 2010 (SCI-Expanded)

XXXIII. **PLC with PIC16F648A Microcontroller Part 20**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1890, pp.38-39, 2010 (SCI-Expanded)

XXXIV. **PLC WITH PIC16F648A MICROCONTROLLER - Part 19**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1889, pp.39-43, 2010 (SCI-Expanded)

XXXV. **PLC with PIC16F648A Microcontroller Part 18**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1888, pp.41-43, 2010 (SCI-Expanded)

XXXVI. **PLC with PIC16F648A Microcontroller Part 17**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1887, pp.41-43, 2010 (SCI-Expanded)

XXXVII. **On suboptimal supervisory control of Petri nets in the presence of uncontrollable transitions via monitor places**
UZAM M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.47, pp.567-579, 2010 (SCI-Expanded)

XXXVIII. **PLC WITH PIC16F648A MICROCONTROLLER - PART 16**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1886, pp.41-42, 2010 (SCI-Expanded)

XXXIX. **PLC with PIC16F648A Microcontroller - Part 15**
UZAM M.
ELECTRONICS WORLD, vol.116, no.1885, pp.35-39, 2010 (SCI-Expanded)

XL. **PLC with PIC16F648A Microcontroller - Part 14**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1884, pp.40-42, 2009 (SCI-Expanded)

XLI. **PLC with PIC16F648A Microcontroller - Part 13**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1883, pp.42-44, 2009 (SCI-Expanded)

XLII. **PLC with PIC16F648A Microcontroller - Part 12**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1882, pp.36-41, 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, vol.17, no.10, pp.1174-1189, 2009 (SCI-Expanded)

XLIV. **PLC with PIC16F648A Microcontroller - Part 11**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1881, pp.38-45, 2009 (SCI-Expanded)

XLV. **PLC with PIC16F648A Microcontroller - Part 10**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1880, pp.29-34, 2009 (SCI-Expanded)

XLVI. **PLC with PIC16F648A Microcontroller - Part 9**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1879, pp.29-34, 2009 (SCI-Expanded)

XLVII. **PLC with PIC16F648A Microcontroller - Part 8**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1878, pp.30-32, 2009 (SCI-Expanded)

XLVIII. **PLC with PIC16F648A Microcontroller - Part 7**

UZAM M.
ELECTRONICS WORLD, vol.115, no.1877, pp.30-32, 2009 (SCI-Expanded)

XLIX. **PLC with PIC16F648A Microcontroller - Part 6**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1876, pp.26-30, 2009 (SCI-Expanded)

L. **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, vol.41, pp.595-612, 2009 (SCI-Expanded)

LI. **PLC with PIC16F648A Microcontroller - Part 5**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1875, pp.30-33, 2009 (SCI-Expanded)

LII. **PLC with PIC16F648A Microcontroller - Part 4**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1874, pp.34-40, 2009 (SCI-Expanded)

LIII. **PLC with PIC16F648A Microcontroller Part 3**
UZAM M.
ELECTRONICS WORLD, vol.115, no.1873, pp.30-34, 2009 (SCI-Expanded)

LIV. **PLC WITH PIC16F648A MICROCONTROLLER PART 2**
UZAM M.
ELECTRONICS WORLD, vol.114, no.1872, pp.29-35, 2008 (SCI-Expanded)

LV. **PLC WITH PIC16F648A MICROCONTROLLER (PART 1)**
UZAM M.
ELECTRONICS WORLD, vol.114, no.1871, pp.21-25, 2008 (SCI-Expanded)

LVI. **Deadlock control of concurrent manufacturing processes sharing finite resources**
Li Z., UZAM M., Zhou M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.38, pp.787-800, 2008 (SCI-Expanded)

LVII. **Deadlock control policy for a class of petri nets without complete siphon enumeration**
Li Z., Zhou M., UZAM M.
IET CONTROL THEORY AND APPLICATIONS, vol.1, no.6, pp.1594-1605, 2007 (SCI-Expanded)

LVIII. **Identification and elimination of redundant control places in petri net based liveness enforcing supervisors of FMS**
UZAM M., Li Z., Zhou M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.35, pp.150-168, 2007 (SCI-Expanded)

LIX. **An iterative synthesis approach to Petri net-based deadlock prevention policy for flexible manufacturing systems**
UZAM M., Zhou M.
IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART A-SYSTEMS AND HUMANS, vol.37, no.3, pp.362-371, 2007 (SCI-Expanded)

LX. **An improved iterative synthesis method for liveness enforcing supervisors of flexible manufacturing systems**
UZAM M., Zhou M.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.44, no.10, pp.1987-2030, 2006 (SCI-Expanded)

LXI. **A hybrid approach to supervisory control of discrete event systems coupling RW supervisors to Petri nets**
UZAM M., Wonham W.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.28, pp.747-760, 2006 (SCI-Expanded)

LXII. **Neurovision-based logic control of an experimental manufacturing plant using neural net le-net5**

and automation Petri nets
Karlik B., UZAM M., Cinsdikici M., Jones A.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.16, pp.527-548, 2005 (SCI-Expanded)

LXIII. **Synthesis of feedback control elements for discrete event systems using Petri net models and theory of regions**
UZAM M.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.24, pp.48-69, 2004 (SCI-Expanded)

LXIV. **The use of the Petri net reduction approach for an optimal deadlock prevention policy for flexible manufacturing systems**
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