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- ☐ UNIV OTTAWA (1)

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1.



### Model Predictive Control of a Nonlinear Laboratory Twin Rotor Aero-dynamical System

By: Dutescu, Dan-Adrian; Radac, Mircea-Bogdan; Precup, Radu-Emil  
Book Group Author(s): IEEE  
Conference: 15th IEEE International Symposium on Applied Machine Intelligence and Informatics (SAMI) Location: Herlany, SLOVAKIA Date: JAN 26-28, 2017  
Sponsor(s): IEEE  
2017 IEEE 15TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI) Pages: 37-42 Published: 2017

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2.



### Virtual Reference Feedback Tuning of MIMO Data-Driven Model-Free Adaptive Control Algorithms

By: Roman, Raul-Cristian; Radac, Mircea-Bogdan; Precup, Radu-Emil; et al.  
Edited by: CamarinhaMatos, LM; Falcao, AJ; Vafaei, N; et al.  
Conference: 7th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems (DoCEIS) Location: Costa de Caparica, PORTUGAL Date: APR 11-13, 2016  
Sponsor(s): IFIP WG 5 5 COVE Co Operat Infrastructure Virtual Enterprises & Elect Business; Soc Collaborat Networks; IEEE Ind Elect Soc; Univ Nova Lisboa; UNINOVA; PhD Program Elect & Comp Engrn FCT UNL  
TECHNOLOGICAL INNOVATION FOR CYBER-PHYSICAL SYSTEMS Book Series: IFIP Advances in Information and Communication Technology Volume: 470 Pages: 253-260 Published: 2016

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3.



### Mixed MFC-VRFT Approach for a Multivariable Aerodynamic System Position Control

By: Roman, Raul-Cristian; Radac, Mircea-Bogdan; Precup, Radu-Emil  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Systems, Man, and Cybernetics (SMC) Location: Budapest, HUNGARY Date: OCT 09-12, 2016  
Sponsor(s): IEEE  
2016 IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS (SMC) Book Series: IEEE International Conference on Systems Man and Cybernetics Conference Proceedings Pages: 2615-2620 Published: 2016

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### Hierarchical Data-Driven Model-Free Iterative Learning Control Using Primitives

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By: Radac, Mircea-Bogdan; Precup, Radu-Emil  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Systems, Man, and Cybernetics (SMC) Location: Budapest, HUNGARY Date: OCT 09-12, 2016  
Sponsor(s): IEEE  
2016 IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS (SMC) Book Series: IEEE International Conference on Systems Man and Cybernetics Conference Proceedings Pages: 2785-2790 Published: 2016

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- ☐ 5. **Data-Driven Virtual Reference Feedback Tuning and Reinforcement Q-learning for Model-Free Position Control of an Aerodynamic System**

By: Radac, Mircea-Bogdan; Precup, Radu-Emil; Roman, Raul-Cristian  
Book Group Author(s): IEEE  
Conference: 24th Mediterranean Conference on Control and Automation (MED) Location: Athens, GREECE Date: JUN 21-24, 2016  
Sponsor(s): Mediterranean Control Assoc; IEEE Robot & Automat Soc; CSS; IEEE; ICUAS; IEEE Control Syst Soc  
2016 24TH MEDITERRANEAN CONFERENCE ON CONTROL AND AUTOMATION (MED) Book Series: Mediterranean Conference on Control and Automation Pages: 1126-1132 Published: 2016

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- ☐ 6. **Evolving Fuzzy Models for the Position Control of Twin Rotor Aerodynamic Systems**

By: Precup, Radu-Emil; Radac, Mircea-Bogdan; Petriu, Emil M.; et al.  
Book Group Author(s): IEEE  
Conference: 14th IEEE International Conference on Industrial Informatics (INDIN) Location: Poitiers, FRANCE Date: JUL 19-21, 2016  
Sponsor(s): Inst Elect & Elect Engineers; IEEE Ind Elect Soc; Institut P; Univ Poitiers; CNRS  
2016 IEEE 14TH INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS (INDIN) Book Series: IEEE International Conference on Industrial Informatics INDIN Pages: 237-242 Published: 2016

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- ☐ 7. **Improving Model Reference Control Performance Using Model-Free VRFT and Q-Learning**

By: Radac, Mircea-Bogdan; Precup, Radu-Emil  
Edited by: Petre, E; Brezovan, M  
Conference: 20th International Conference on System Theory, Control and Computing (ICSTCC) Location: Sinaia, ROMANIA Date: OCT 13-15, 2016  
Sponsor(s): Inst Elect & Elect Engineers; Control Syst Soc; Univ Craiova, Fac Automat Comp Elect, Automat Control Res Ctr; Gheorghe Asachi Tech Univ Iasi, Fac Automat Control & Comp Engr; Dunarea Jos Univ Galati, Fac Control Syst Comp Elect & Elect Engr; Minist Educ & Res Romania, Natl Authority Sci Res & Innovat; IEEE Romanian Sect; Romanian Acad Tech Sci; Romanian Soc Automat & Tech Informat  
2016 20TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC) Book Series: International Conference on System Theory Control and Computing Pages: 7-13 Published: 2016

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- ☐ 8. **Virtual Reference Feedback Tuning for Position Control of a Twin Rotor Aerodynamic System**

By: Hedrea, Elena-Lorena; Radac, Mircea-Bogdan; Precup, Radu-Emil  
Book Group Author(s): IEEE

**Times Cited: 1**  
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Usage Count

Conference: 11th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI) Location: Timisoara, ROMANIA Date: MAY 12-14, 2016  
Sponsor(s): IEEE  
2016 IEEE 11TH INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI)  
Pages: 57-62 Published: 2016

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- 9. **Experiment-Based Comparison of Nature-Inspired Algorithms for Optimal Tuning of PI-Fuzzy Controlled Nonlinear DC Servo Systems**

**Times Cited: 0**  
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By: Precup, Radu-Emil; David, Radu-Codrut; Radac, Mircea-Bogdan; et al.  
Book Group Author(s): IEEE  
Conference: International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) Location: Capri, ITALY Date: JUN 22-24, 2016  
2016 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Pages: 1261-1266 Published: 2016

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- 10. **Two Data-Driven Control Algorithms for a MIMO Aerodynamic System with Experimental Validation**

**Times Cited: 4**  
(from Web of Science Core Collection)

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By: Roman, Raul-Cristian; Radac, Mircea-Bogdan; Precup, Radu-Emil; et al.  
Edited by: Caraman, S; Barbu, M; Solea, R  
Conference: 19th International Conference on System Theory, Control and Computing (ICSTCC) Location: ROMANIA Date: OCT 14-16, 2015  
Sponsor(s): IEEE Control Syst Soc; Dunarea Jos Univ Galati, Fac Automat Control Comp Elect & Elect Engrn; Univ Craiova, Fac Automat Comp & Elect; Gheorghe Asachi Tech Univ Iasi, Fac Automat Control & Comp Engrn; NAPA; Natl Author Sci Res & Innovat, Minist Educ & Res Romania; Control Syst Comp & Elect Engrn Soc; Romanian Soc Automat Control & Tech Informat  
2015 19TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC) Pages: 736-741 Published: 2015

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- 11. **Implementation of Evolving Fuzzy Models of a Nonlinear Process**

**Times Cited: 3**  
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**Usage Count**

By: Precup, Radu-Emil; Voisan, Emil-Ioan; Petriu, Emil M.; et al.  
Edited by: Filipe, J; Madani, K; Gusikhin, O; et al.  
Conference: 12th International Conference on Informatics in Control Automation and Robotics (ICINCO) Location: Alsace, FRANCE Date: JUL 21-23, 2015  
Sponsor(s): Inst Syst & Technologies Informat Control & Commun; Univ Upper Alsace; IEEE Control Syst Soc; IEEE Robot & Automat Soc; Int Federat Automat Control; EUROMICRO; Assoc Advancement Artificial Intelligence; Associacao Portuguesa Controllo Automatico; Int Neural Network Soc; Asia Pacific Neural Network Assembly; euRobot; ACM Special Interest Grp Artificial Intelligence; AISBL  
ICIMCO 2015 PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON INFORMATICS IN CONTROL, AUTOMATION AND ROBOTICS, VOL. 1 Pages: 5-14  
Published: 2015

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- 12. **Backtracking Search Optimization Algorithm-Based Approach to PID Controller Tuning for Torque Motor Systems**

**Times Cited: 2**  
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**Usage Count**

By: Precup, Radu-Emil; Balint, Alexandra-Dina; Radac, Mircea-Bogdan; et al.  
Book Group Author(s): IEEE  
Conference: 9th Annual IEEE International Systems Conference (SysCon) Location: Vancouver, CANADA Date: APR 13-16, 2015

Sponsor(s): IEEE; IEEE Syst Council  
2015 9TH ANNUAL IEEE INTERNATIONAL SYSTEMS  
CONFERENCE (SYSCON) Book Series: Annual IEEE Systems  
Conference Pages: 127-132 Published: 2015

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- ☐ 13. **PI and PID Controller Tuning for an Automotive Application Using Backtracking Search Optimization Algorithms** **Times Cited: 1**  
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- By: Precup, Radu-Emil; Balint, Alexandra-Dina; Petriu, Emil M.; et al.  
Book Group Author(s): IEEE  
Conference: 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics Location: Timisora, ROMANIA Date: MAY 21-23, 2015  
2015 IEEE 10TH JUBILEE INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI) Pages: 161-166 Published: 2015
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- ☐ 14. **Data-Driven Optimal Model-Free Control of Twin Rotor Aerodynamic Systems** **Times Cited: 5**  
(from Web of Science Core Collection)
- By: Roman, Raul-Cristian; Radac, Mircea-Bogdan; Precup, Radu-Emil; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Industrial Technology (ICIT) Location: Seville, SPAIN Date: MAR 17-19, 2015  
Sponsor(s): IEEE  
2015 IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY (ICIT) Pages: 161-166 Published: 2015
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- ☐ 15. **Optimal Motion Prediction Using a Primitive-based Model-Free Iterative Control Approach for Crane Systems** **Times Cited: 1**  
(from Web of Science Core Collection)
- By: Radac, Mircea-Bogdan; Precup, Radu-Emil; Petriu, Emil M.  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Industrial Technology (ICIT) Location: Seville, SPAIN Date: MAR 17-19, 2015  
Sponsor(s): IEEE  
2015 IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY (ICIT) Pages: 366-372 Published: 2015
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- ☐ 16. **Performance Analysis of Torque Motor Systems with PID Controllers Tuned by Bacterial Foraging Optimization Algorithms** **Times Cited: 4**  
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- By: Precup, Radu-Emil; Borza, Andrei-Leonard; Radac, Mircea-Bogdan; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA) Location: Ottawa, CANADA Date: MAY 05-07, 2014  
Sponsor(s): IEEE; IEEE Computat Intelligence Soc; IEEE Instrumentat & Measurement Soc  
2014 IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND VIRTUAL ENVIRONMENTS FOR MEASUREMENT SYSTEMS AND APPLICATIONS (CIVEMSA) Book Series: IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications  
Pages: 141-146 Published: 2014
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- ☐ 17. **Design and Testing of a Constrained Data-Driven** **Times Cited: 3**

**Iterative Reference Input Tuning Algorithm**

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By: Radac, Mircea-Bogdan; Precup, Radu-Emil; Petriu, Emil M.  
Book Group Author(s): IEEE  
Conference: 13th European Control Conference (ECC) Location:  
Univ Strasbourg, Strasbourg, FRANCE Date: JUN 24-27, 2014  
Sponsor(s): ICube lab; MathWorks; Groupement Rech Modeling,  
Anal & Control Dynam Syst; Siemens; Natl Ctr Sci Res; INRIA  
2014 EUROPEAN CONTROL CONFERENCE (ECC) Pages:  
2034-2039 Published: 2014

[View Abstract](#)**Usage Count**☐ 18. **Bacterial Foraging Optimization Approach to the Controller Tuning for Automotive Torque Motors**

**Times Cited: 5**  
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By: Precup, Radu-Emil; Borza, Andrei-Leonard; Radac, Mircea-Bogdan; et al.  
Book Group Author(s): IEEE  
Conference: IEEE 23rd International Symposium on Industrial Electronics (ISIE) Location: Istanbul, TURKEY Date: JUN 01-04, 2014  
Sponsor(s): Inst Elect & Elect Engineers; IEEE Ind Elect Soc; Bogazici Univ  
2014 IEEE 23RD INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE) Book Series: Proceedings of the IEEE International Symposium on Industrial Electronics Pages: 972-977 Published: 2014

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**Times Cited: 0**  
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By: Precup, Radu-Emil; Sabau, Marius-Csaba; Dragos, Claudia-Adina; et al.  
Edited by: Angelov, P; Filev, D; Kasabov, N; et al.  
Conference: IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS) Location: Linz, AUSTRIA Date: JUN 02-04, 2014  
Sponsor(s): IEEE; IEEE Syst, Man, & Cybernet Soc, Tech Comm Evolving Intelligent Syst; Linz Ctr Mechatron GmbH; Software Competence Ctr Hagenberg; Johannes Kepler Univ Linz; Fuzzy Log Lab Linz Hagenberg, Dept Knowledge Based Math Syst  
2014 IEEE CONFERENCE ON EVOLVING AND ADAPTIVE INTELLIGENT SYSTEMS (EAIS) Book Series: IEEE Conference on Evolving and Adaptive Intelligence Systems Published: 2014

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**Times Cited: 2**  
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By: Precup, Radu-Emil; David, Radu-Codrut; Stinean, Alexandra-Iulia; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA) Location: Alberobello, ITALY Date: JUN 23-25, 2014  
Sponsor(s): IEEE; IEEE Italy Sect  
2014 IEEE INTERNATIONAL SYMPOSIUM ON INNOVATIONS IN INTELLIGENT SYSTEMS AND APPLICATIONS (INISTA 2014) Pages: 14-20 Published: 2014

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**Times Cited: 4**  
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By: Roman, Raul-Cristian; Radac, Mircea-Bogdan; Precup, Radu-Emil  
Edited by: Szakal, A  
Conference: 9th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI) Location: Timisara, ROMANIA Date: MAY 15-17, 2014  
Sponsor(s): IEEE

**Usage Count**

- 2014 IEEE 9TH INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI)  
Pages: 25-30 Published: 2014  
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- 22. **Model-Free Tuning Solution for Sliding Mode Control of Servo Systems**  
By: Precup, Radu-Emil; Radac, Mircea-Bogdan; Dragos, Claudia-Adina; et al.  
Book Group Author(s): IEEE  
Conference: 8th Annual IEEE Systems Conference (SysCon)  
Location: Ottawa, CANADA Date: MAR 31-APR 03, 2014  
Sponsor(s): IEEE Syst Council; IEEE  
2014 8TH ANNUAL IEEE SYSTEMS CONFERENCE (SYSCON)  
Book Series: Annual IEEE Systems Conference Pages: 30-35  
Published: 2014  
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- 23. **Data-Driven Model-Free Control of Twin Rotor Aerodynamic Systems: Algorithms and Experiments**  
By: Radac, Mircea-Bogdan; Roman, Raul-Cristian; Precup, Radu-Emil; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Symposium on Intelligent Control (ISIC) Location: Antibes, FRANCE Date: OCT 08-10, 2014  
Sponsor(s): IEEE  
2014 IEEE INTERNATIONAL SYMPOSIUM ON INTELLIGENT CONTROL (ISIC) Book Series: IEEE International Symposium on Intelligent Control Pages: 1889-1894 Published: 2014  
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- 24. **Multi-Robot Charged System Search-Based Optimal Path Planning in Static Environments**  
By: Precup, Radu-Emil; Petriu, Emil M.; Fedorovici, Lucian-Ovidiu; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Symposium on Intelligent Control (ISIC) Location: Antibes, FRANCE Date: OCT 08-10, 2014  
Sponsor(s): IEEE  
2014 IEEE INTERNATIONAL SYMPOSIUM ON INTELLIGENT CONTROL (ISIC) Book Series: IEEE International Symposium on Intelligent Control Pages: 1912-1917 Published: 2014  
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- 25. **Adaptable Fuzzy Control Solutions for Driving Systems Working Under Continuously Variable Conditions**  
By: Stinean, Alexandra-Iulia; Preitl, Stefan; Precup, Radu-Emil; et al.  
Book Group Author(s): IEEE  
Conference: 14th IEEE International Symposium on Computational Intelligence and Informatics (CINTI) Location: Budapest, HUNGARY Date: NOV 19-21, 2013  
Sponsor(s): IEEE  
14TH IEEE INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE AND INFORMATICS (CINTI)  
Book Series: International Symposium on Computational Intelligence and Informatics Pages: 231-237 Published: 2013  
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- 26. **Data-based Tuning of Linear Controllers for MIMO Twin Rotor Systems**  
By: Radac, Mircea-Bogdan; Roman, Raul-Cristian; Precup, Radu-Emil; et al.  
Edited by: Kuzle, I; Capuder, T; Pandzic, H  
Conference: IEEE EUROCON Conference Location: Zagreb, CROATIA Date: JUL 01-04, 2013  
Sponsor(s): IEEE; IEEE Croatia Sect; IEEE Reg 8; FER  
**Times Cited: 1**  
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2013 IEEE EUROCON Pages: 1915-1920 Published: 2013

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- 27. **Simulated Annealing Approach to Fuzzy Modeling of Servo Systems**
- By: Precup, Radu-Emil; Radac, Mircea-Bogdan; Dragos, Claudia-Adina; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Cybernetics (CYBCONF) Location: Lausanne, SWITZERLAND Date: JUN 13-15, 2013  
Sponsor(s): IEEE  
2013 IEEE INTERNATIONAL CONFERENCE ON CYBERNETICS (CYBCONF) Published: 2013

**Times Cited: 0**  
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- 28. **Low-Cost Neuro-Fuzzy Control Solution for Servo Systems with Variable Parameters**
- By: Stinean, Alexandra-Iulia; Preitl, Stefan; Precup, Radu-Emil; et al.  
Book Group Author(s): IEEE  
Conference: IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA) Location: Milan, ITALY Date: JUL 15-17, 2013  
Sponsor(s): Univ Studi Milano; IEEE; IEEE Instrumentat & Measurement Soc; IEEE Computat Intelligence Soc  
2013 IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND VIRTUAL ENVIRONMENTS FOR MEASUREMENT SYSTEMS AND APPLICATIONS (CIVEMSA) Book Series: IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications  
Pages: 156-161 Published: 2013

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- 29. **Solutions to Avoid the Worst Case Scenario in Driving Systems Working Under Continuously Variable Conditions**
- By: Stinean, Alexandra-Iulia; Preitl, Stefan; Precup, Radu-Emil; et al.  
Edited by: Szakal, A  
Conference: IEEE 9th International Conference on Computational Cybernetics (ICCC) Location: Tihany, HUNGARY Date: JUL 08-10, 2013  
Sponsor(s): IEEE; Obuda Univ; IEEE Entities; Hungarian Fuzzy Assoc  
IEEE 9TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL CYBERNETICS (ICCC 2013) Pages: 339-344 Published: 2013

**Times Cited: 1**  
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- 30. **Modeling and Control of an Electric Drive System with Continuously Variable Reference, Moment of Inertia and Load Disturbance**
- By: Stinean, Alexandra-Iulia; Preitl, Stefan; Precup, Radu-Emil; et al.  
Book Group Author(s): IEEE  
Conference: 9th Asian Control Conference (ASCC) Location: Istanbul, TURKEY Date: JUN 23-26, 2013  
2013 9TH ASIAN CONTROL CONFERENCE (ASCC) Published: 2013

**Times Cited: 0**  
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- 31. **Data-Driven Performance Improvement of Control Systems for Three-Tank Systems**
- By: Precup, Radu-Emil; Radac, Mircea-Bogdan; Petriu, Emil M.;

**Times Cited: 0**  
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et al.

Usage Count

Edited by: Paja, WA; Wilamowski, BM

Conference: 6th International Conference on Human System

Interactions (HSI) Location: Gdansk, POLAND Date: JUN 06-08, 2013

Sponsor(s): Gdansk Univ Technol; Univ Informat Technol &amp; Management; IEEE; IEEE Ind Elect Soc

2013 6TH INTERNATIONAL CONFERENCE ON HUMAN

SYSTEM INTERACTIONS (HSI) Book Series: Conference on

Human System Interaction Pages: 306-311 Published: 2013

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