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Modeling and Control an A/DT Served by an ACPS based on SCADA, Industry 4.0 and 5.0



Adrian Filipescu; Daniela Cernega; Razvan Solea; Adriana Filipescu; Eugenia Minca;
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Digital Twin for a Mechatronics Line with Integrated Mobile Robotic Systems



Adrian Filipescu; Daniela Cristina Cernega; Eugenia Mincă; Razvan Solea; Dan Ionescu; Georgian Simion; Adriana Filipescu

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Event-based PID control in a flexible manufacturing process



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Sensing membranes based on CNT nanocomposites processing for air and water monitoring



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CAS and IRM Integrated into a Multifunctional Flexible Manufacturing Technology on an A/D/RML



Dan Ionescu; Daniela Cernega; Razvan Șolea; Adrian Filipescu; Georgian Simion; Adriana Filipescu

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Year: 2021 | Conference Paper | Publisher: IEEE

Improved Image Processing Algorithm for Quality Test on a Flexible Manufacturing Mechatronic Line



Marius PAUN; Eugenia MINCA; Adrian FILIPESCU; Adriana FILIPESCU; Octavian DUCA

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Optimal Control of Automated Resupply on a Flexible Manufacturing Mechatronics Line

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Case Study about Smart Integrated Utilities for Smart Cities

Mariana Bran; Mihaela Frigura-Iliasa; Hannelore Elfride Filipescu; Lia Dolga; Vlad Vatau;
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Digital Imaging Processing and Reconstruction for General Applications



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Industrial 3D Recognition System Based on 2D Elements



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Supervisory Control of Discrete Event Systems in Manufacturing Industry



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Mechatronics Manufacturing Line with Integrated Autonomous Robots and Visual Servoing Systems



Adrian Filipescu; Eugenia MINCA; Adriana Filipescu

2019 IEEE International Conference on Cybernetics and Intelligent Systems (CIS) and IEEE
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Optimal control of the complete assembly/disassembly cycle for a mechatronics line prototype



Octavian DUCA; Valentin GURGU; Eugenia MINCA; Adrian FILIPESCU; Florin DRAGOMIR;
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PLC Commanded Intelligent Logistics Model Based on Discrete Event Systems



Elvis Dogaru; Flaviu Mihai Frigura-Iliasa; Mirela Iorga; Lia Dolga; Hannelore Filipescu;
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2019 4th International Conference on Intelligent Transportation Engineering (ICITE)

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Elvis Dogaru; Flaviu Mihai Frigura-Iliasa; Mirela Iorga; Lia Dolga; Hannelore Filipescu;
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2019 4th International Conference on Intelligent Transportation Engineering (ICITE)

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PCB Configuration Analysis of Tire Pressure RKE Receivers for Passenger Cars



Francisc Demeter; Flaviu Mihai Frigura-Iliasa; Marius Mirica; Florin Alexa; Lia Dolga;
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Computer Based Algorithm for Optimizing Design and Construction of Large Industrial Power System Industrial Objectives



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Analytical Model for the Electrodynamical Forces inside Electrical Contacts of Commutation Devices



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VHDL-AMS Modelling And FPGA Implementation Of Electrodermal Centers Analyzer



Hannelore Filipescu; Petru Papazian

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Computer Aided Model for an Off-grid Photovoltaic System Using Batteries Only



Emil Lazarescu; Flaviu M. Frigura-Iliasa; Marius Mirica; Mihaela Frigura-Iliasa; Lia Dolga;

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Computer Aided Model for a Low Voltage Varistor with Increased Thermal Stability



Adrian F. Olariu; Flaviu M. Frigura-Iliasa; Florin I. Balcu; Mihaela Frigura-Iliasa; Lia Dolga; Hannelore E. Filipescu

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Computer Aided Design and Model of a Car Tire Pressure Module Antenna



Lia Dolga; Hannelore Filipescu; Cristian Moldovan; Florin Alexa; Mihaela Frigura-Iliasa

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- Computer Aided Design and Model of a Remote Keyless Module Antenna** 
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- Visual servoing systems based control of complex autonomous systems serving a P/RML** 
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Adrian Flavius Olariu; Mihaela Frigura-Iliasa; Flaviu Mihai Frigura-Iliasa; Lia Dolga;

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An Original Computational Method for Assessing Active Lossess Inside Asynchronous Motors



Alexandra Popescu; Mihaela Frigura-Iliasa; Doru Vatau; Flaviu Mihai Frigura-Iliasa; Lia Dolga; Hannelore Elfride Filipescu

2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)

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An Original Computational Method for Assessing Active Lossess Inside Asynchronous Motors



Alexandra Popescu; Mihaela Frigura-Iliasa; Doru Vatau; Flaviu Mihai Frigura-Iliasa; Lia Dolga; Hannelore Elfride Filipescu

2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)

Year: 2018 | Conference Paper | Publisher: IEEE

Trajectory-Tracking Sliding-Mode Control of the Autonomous Wheelchair Modeled as a Nonholonomic WMR



A. Filipescu; R. Solea; A. Filipescu; G. Stamatescu; G. Ciubuciu

2018 IEEE 14th International Conference on Control and Automation (ICCA)

Year: 2018 | Conference Paper | Publisher: IEEE

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Study about some two main dopants for a ZnO based varistor material with 5 additives, applied in overvoltage protection equipment



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CAD project of a class D surge arrester module for domestic and residential low voltage applications



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CAD based solution for the refurbishment of existing construction elements



Cosmin Rimescu; Andreea Anamaria Anghel; Flaviu Mihai Frigura-Iliasa; Hannelore Filipescu

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Year: 2018 | Conference Paper | Publisher: IEEE

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Year: 2018 | Conference Paper | Publisher: IEEE

A new solution for a domestic low voltage surge-arrester



Cosmin Rimescu; Flaviu M. Frigura-Iliasa; Lia Dolga; Hannelore Filipescu; Madlena Nen

2017 10th International Conference on Electrical and Electronics Engineering (ELECO)

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SHPN modelling, visual servoing and control of WMR with RM integrated into P/RML



Adrian Filipescu; Razvan Solea; Daniela Cernega; Adriana Filipescu; George Ciubuciu;
George Petrea

2017 21st International Conference on System Theory, Control and Computing (ICSTCC)
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SHPN models based simulation and control of mobile robotic systems integrated into A/DML



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Year: 2017 | Conference Paper | Publisher: IEEE

Visual servoing and obstacle avoidance method based control autonomous robotic systems servicing a mechatronics manufacturing line



George Ciubuciu; Razvan Solea; Adrian Filipescu; Adriana Filipescu
2017 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS)
Year: 2017 | Conference Paper | Publisher: IEEE

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Hybrid modeling, balancing and control of a mechatronics line served by two mobile robots



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Hybrid modeling, balancing and control of a mechatronics line served by two mobile robots



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Year: 2016 | Conference Paper | Publisher: IEEE

Control and obstacle avoidance of a WMR, based on sliding-mode, ultrasounds and laser



George Ciubucciu; Adrian Filipescu; Adriana Filipescu; Silviu Filipescu; Bogdan Dumitrascu

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Year: 2016 | Conference Paper | Publisher: IEEE

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Control and obstacle avoidance of a WMR, based on sliding-mode, ultrasounds and laser



George Ciubucciu; Adrian Filipescu; Adriana Filipescu; Silviu Filipescu;

Bogdan Dumitrascu

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Year: 2016 | Conference Paper | Publisher: IEEE

Sliding-mode control and sonnar based bubble rebound obstacle avoidance for a WMR



Adrian Filipescu; Bogdan Dumitrascu; Adriana Filipescu; George Ciubucciu; Eugenia Minca;

Alina Voda

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Sliding-mode control and sonnar based bubble rebound obstacle avoidance for a WMR



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Eugenia Minca; Alina Voda

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Cycle time optimization of a reversible A/DML served by a mobile robotic system



Eugenia Minca; H-G Coanda; Florin Dragomir; Otilia Dragomir; Adrian Filipescu

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Wheelchair control and navigation based on kinematic model and iris movement



Razvan Solea; Adrian Filipescu; Adriana Filipescu; Eugenia Minca; Silviu Filipescu

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Speed estimators based control of permanent magnet synchronous motor

Silviu Filipescu; Adrian Filipescu
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Speed estimators based control of permanent magnet synchronous motor

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Modeling and control of a mechatronics system served by a mobile platform equipped with manipulator

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Modeling and control of a mechatronics system served by a mobile platform equipped with manipulator



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Energy Calibration of the NewSUBARU Storage Ring for Laser Compton-Scattering Gamma Rays and Applications



Hiroaki Utsunomiya; Tatsushi Shima; Keiji Takahisa; Dan Mihai Filipescu; Ovidiu Tesileanu; Ioana Gheorghe; Hilde-Therese Nyhus; Therese Renstrøm; Yiu-Wing Lui; Yasuhisa Kitagawa; Sho Amano; Shuji Miyamoto

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Hybrid modelling based control of an processing/reprocessing mechatronics line served by an autonomous robotic system 

G. Petrea; A. Filipescu; A. Filipescu; A. Serbencu; Eugenia Minca; Alina Voda
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Laser-based obstacle avoidance algorithm for four driving/steering wheels autonomous vehicle 

B. Dumitrascu; A. Filipescu; G. Petrea; S. Filipescu; Eugenia Minca; Alina Voda
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2013 17th International Conference on System Theory, Control and Computing (ICSTCC)

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Discrete modelling based control of a processing/reprocessing mechatronics line served by an autonomous robotic system



A. Filipescu; G. Petrea; A. Filipescu; S. Filipescu; E. Minca

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Year: 2013 | Conference Paper | Publisher: IEEE

A theoretical approach of the generalized hybrid model based control of repetitive processes



Eugenia Minca; Adrian Filipescu; Alina Voda

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Hybrid model based control of a mechatronics line served by mobile robot with manipulator



Eugenia Minca; Adrian Filipescu; Alina Voda; Adriana Filipescu

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Energy reconstruction from PileUp events



Efstathios Stiliaris; A. Pakou; D. Pierroutsakou; A. Boiano; C. Boiano; D. Filipescu; T. Glodariu; J. Grebosz; A. Guglielmetti; M. La Commara; M. Mazzocco; C. Parascandolo; K. Rusek; A.M. Sánchez-Benítez; C. Signorini; O. Sgouros; F. Soramel; V. Soukeras; E. Strano; L. Stroe; N. Toniolo; D. Torresi; K. Zerva

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New approach in control of assembly/disassembly line served by robotic manipulator mounted on mobile platform



E. Minca; A. Filipescu; A. Voda

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Two approaches in modeling of assembly/disassembly line with integrated manipulator mounted on mobile platform



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Control of automatic robot with guided manipulator integrated into flexible manufacturing system using Hybrid Petri Nets



A. Voda; A. Radaschin; E. Minca; A. Filipescu

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Adaptive disassembly sequence control by using mobile robots and system information



A. Radaschin; A. Filipescu; V. Minzu; E. Minca; A. Filipescu

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Backstepping control of wheeled mobile robots



B. Dumitrascu; A. Filipescu; V. Minzu; A. Filipescu

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Year: 2011 | Conference Paper | Publisher: IEEE

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Backstepping control of wheeled mobile robots




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- Discrete-time sliding-mode control of four driving-steering wheels autonomous vehicle** 
Bogdan Dumitrascu; Adrian Filipescu; Viorel Minzu; Alina Voda; Eugenia Minca
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Lateral motion control of four-wheels steering vehicle using a sliding-mode controller



R. Solea; A. Filipescu; D. Cernega

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Lateral motion control of four-wheels steering vehicle using a sliding-mode controller



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Fuzzy control and bubble rebound obstacle avoidance of a mobile platform used as robotic assistant



A. Filipescu; I. Susnea; V. Minzu; S. Filipescu

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Fuzzy control and bubble rebound obstacle avoidance of a mobile platform used as robotic assistant



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Sliding-mode controller for four-wheel-steering vehicle: Trajectory-tracking problem



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Obstacle avoidance and path following control of a WMR used as personal robotic assistant



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The bubble rebound obstacle avoidance algorithm for mobile robots



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Wheeled mobile robot control using virtual pheromones and neural networks



A. Filipescu; I. Susnea; S. Filipescu; G. Stamatescu

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✓ **Distributed system of mobile platform obstacle avoidance and control as robotic assistant for disabled and elderly** 

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Razvan Solea; Adrian Filipescu; Grigore Stamatescu

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✓ **Control of mobile platforms as robotic assistants for elderly**
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✓ **Sliding-mode control for trajectory-tracking of a Wheeled Mobile Robot in presence of uncertainties**
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Virtual pheromones to control mobile robots. A neural network approach



Ioan Susnea; Grigore Vasiliu; Adrian Filipescu; Adriana Serbencu; Adrian Radaschin

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Ioan Susnea; Grigore Vasiliu; Adrian Filipescu; Adriana Serbencu; Adrian Radaschin

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Path following, real-time, embedded fuzzy control of a mobile platform wheeled mobile robot



I. Susnea; A. Filipescu; G. Vasiliu; S. Filipescu

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Path following, real-time, embedded fuzzy control of a mobile platform
wheeled mobile robot



I. Susnea; A. Filipescu; G. Vasiliu; S. Filipescu

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On-line Parameter Estimation and Adaptive Gain Smooth Sliding Observer-Controller for Robotic Manipulator Control



A. Filipescu; Al. Stancu; G. Stamatescu

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Year: 2007 | Conference Paper | Publisher: IEEE

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On-line Parameter Estimation and Adaptive Gain Smooth Sliding
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A. Filipescu; Al. Stancu; G. Stamatescu

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Year: 2007 | Conference Paper | Publisher: IEEE

Smooth variable structure observer controller with adaptive gains: Application to robot manipulators control



A. Filipescu; L. Dugard; J. M. Dion

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Adaptive gain sliding observer based sliding controller for uncertain parameters nonlinear systems. Application to flexible joint robots



A. Filipescu; L. Dugard; J.-M. Dion
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Adaptive gain sliding observer based sliding controller for uncertain
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