

## **RIAI – Revista Iberoamericana de Automática e Informática Industrial**

Estimadas/os compañeras/os,

Os queremos suministrar información en relación a un tema que está causando preocupación en el comité editorial de la revista.

Varios autores de artículos de RIAI nos han planteado los problemas con los que se enfrentan a la hora de citar sus trabajos publicados en RIAI en otras revistas que se editan en inglés. En concreto, es práctica corriente que muchos editores asociados sugieran eliminar del listado de referencias aquellas que no correspondan a títulos en inglés. Esa forma de proceder está contribuyendo a que el factor de impacto (FI) de la revista RIAI se reduzca drásticamente.

El equipo de dirección de RIAI siempre ha seguido la política de evitar influir de forma directa en el incremento de su FI anual (se recomienda leer la información al respecto en [http://en.wikipedia.org/wiki/Impact\\_factor](http://en.wikipedia.org/wiki/Impact_factor)). Sin embargo, hemos considerado oportuno y necesario hacer pública esta información porque es imprescindible que se citen los artículos publicados en RIAI en otras revistas, independientemente del idioma en que se publiquen. En el FI tiene un peso importante las citas que a trabajos publicados en RIAI se hagan en otras publicaciones en los dos últimos años (no se consideran auto-citas los trabajos que un autor de RIAI cite en otras revistas, puesto que lo que se evalúa es a la revista, no al autor). También cuentan los trabajos publicados en RIAI y citados en otros artículos en la misma revista, en cuyo caso se consideran auto-citas. En el informe de Thompson ([http://wokinfo.com/media/essay/journal\\_selection\\_essay-es.pdf](http://wokinfo.com/media/essay/journal_selection_essay-es.pdf)) se considera que las auto-citas también cuentan siempre que supongan un porcentaje en torno al 20% del número total de citas. Un número de auto-citas superior al 80% puede conllevar la salida de la revista del ranking.

Por tanto, os animamos a que citéis, si lo consideráis oportuno, trabajos publicados en RIAI (vuestros o de otros autores) en las publicaciones que hagáis en otras revistas. De esa forma conseguiremos situar a la revista RIAI en una mejor posición y evitaremos el riesgo de su desaparición. Para evitar las reticencias planteadas por los editores asociados de distintas revistas, recordamos que las publicaciones en RIAI cuentan con título, resumen y palabras clave en inglés, que son las que habrá que usar en las citas que se realicen a los trabajos publicados. A modo de ejemplo y para facilitar la inclusión de citas en otras publicaciones, se listan a continuación los artículos publicados en los últimos años en la forma en que deben ser citados en revistas publicadas en inglés. Para incluir las referencias en RIAI se puede usar el título en español.

Estamos convencidos que con la contribución de todos lograremos que la revista RIAI sea un referente en el ámbito de la Automática y la Informática Industrial. También os animamos a que enviéis a RIAI los trabajos a los que queráis dar difusión y que extendáis esta recomendación a todos los miembros de vuestros grupos.

Muchas gracias y un saludo,

Pedro Albertos y Manuel Berenguel

Dirección de RIAI

**FORMA DE CITAR LOS ARTÍCULOS DE RIAI EN PUBLICACIONES EN INGLÉS (COLUMNA DE LA IZQUIERDA)**

<b>2016</b>	
<b>Paper</b>	<b>Original keywords</b>
J. J. Valera-García, I. Atutxa-Lekue. Integrated Power Systems for Offshore Vessels. Control, Trends and Challenges. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):3-14, 2016.	Vessels, Power Systems, Power Distribution, Control, Energy Efficiency, DC Grid, Stability Analysis
A. L. L. F. Murari, A. J. Sguarezi Filho, J. A. Torrico Altuna, R. V. Jacomini. An Introduction to Setting PI Controller's Parameters used to Control the Wound Rotor Induction Generator. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):15-21, 2016.	Double-fed Induction Generator, Pole Compensation, Vector control, Wind Turbine
R. Moliner, F. Tanda. Tool for Robust Tuning of PI/PID Controllers with Two Degree of Freedom. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):22-31, 2016.	PID Control, Tuning, Robustness, Optimization, Process Control, Particle Swarm Optimization
C. A. Cappelletti, E. J. Adam. Control System Design by Output Feedback with Constraints Applied to an Hydraulic System. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):32-43, 2016.	Process Control, PID Control, LMI, Multiobjective Control
D. Sánchez de la Llana, J. Aranda. Revisiting the Control of Ill Conditioned Plants with $H_{\infty}$ Structured. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):44-55, 2016.	$H_{\infty}$ Control, Robustness, Distillation Columns, Decoupling
J. C. Tudón-Martínez, S. Varrier, R. Morales-Menéndez, O. Sename. Fault Tolerant Control in Semi-active Automotive Suspension. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):56-66, 2016.	Fault Tolerant cControl, Fault Detection, Semi-active Automotive Suspension, Parity Space, LPV Control
G. Ortiz-Torres, R. F. Escobar, M. Adam-Medina, C. M. Astorga-Zaragoza, G. V. Guerrero-Ramírez. Active Fault Tolerant Control System in Sensors and Actuators: Application in a Distillation Column. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):67-79, 2016.	Sensors and Virtual Instruments, Chemical Processes, System Simulation
J. Medina, A. Jardón, C. Balaguer. Decoupled Control of a Variable Stiffness Actuator for Assistive Robots. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):80-91, 2016.	Robot control, Nonlinear systems, Feedback linearization, Man/machine interaction
I. Leyva-Mayorga, M. E. Rivero-Angeles, C. Carreto-Arellano, V. Pla. Performance Analysis of a TDMA-based Wireless Sensor Networks Protocol with Cognitive Radio Capabilities. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):92-102, 2016.	Cognitive Radio, Quality of Service, Wireless Sensor Networks, Continuous Monitoring, Event Driven Detection
L. Armesto, L. Arnal, J. Dols, V. Girbés, J. C. Peris. SAFEBUS Project: Advanced Safety Systems in Buses. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):103-114, 2016.	Advance Driving Assistance Systems, People Detection, Bus Safety
R. Ortega, O Carranza, J. C. Sosa, V. García, R. Hernández. Design of Controllers for Single-phase Inverters Operating in Island Mode within a Microgrid. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):115-126, 2016.	PI-P Controller, Resonant Controller, Single-phase Inverter, Microgrid, Island Mode
L. Piris-Botalla, G. G. Oggier, A. M. Airabella, G. O. García. Extending the Sot-switching Operating Range of a Bidirectional Three-port DC-DC Converter. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(1):127-134, 2016.	Power Electronics, Power Converters and Drives, Smart Grid, Electronic and Electrical Power Systems, Hybrid Vehicles
E. García, A. Correcher, E. Quiles, F. Morant. Renewable Energy Resources of the Marine Environment and its Control Requirements. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):141-161, 2016, doi: 10.1016/j.riai.2016.03.002.	Floating Wind Generators, Marine Current Turbines, Wave Energy, Supervisory Control Engineering, Condition Monitoring

D. Feliu-Talegon, V. Feliu-Batlle, C. F. Castillo-Berrio. Motion Control of a Sensing Antenna with a Nonlinear Input Shaping Technique. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):162-173, 2016, doi: 10.1016/j.riai.2016.02.001	Motion Control, Vibration Suppression, Flexible-link, Coupling Torque, Angular Frequencies, Antenna
J.A. Brizuela-Mendoza, C.M. Astorga-Zaragoza, A. Zavala-Río, F. Canales-Abarca. Active Fault Tolerant Control: Sensor Fault Estimation and Accomodation applied to a Riderless Bicycle LPV Model. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):174-185, 2016, doi: 10.1016/j.riai.2016.01.001.	Fault Diagnosis, Fault Tolerant Control, Observers, LPV Systems
R. Costa Castelló, V. Puig, J. Blesa. Introduction to Model-based Fault Diagnosis using Project-based Learning. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):186-195, 2016, doi: 10.1016/j.riai.2015.09.011.	Detection, Diagnosis, Residuals, Fault, Project-based Learning
R. Simarro, J. E. Simó, J. L. Navarro, J. L. Poza-Luján, J. L. Posadas-Yagüe. Control Kernel: Modular Controllers in Distributed Environments. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):196-206, 2016, doi: 10.1016/j.riai.2015.11.005.	Embedded Systems, Model Predictive Control, Distributed Control Systems
D. M. Muñoz, A. Correcher, E. García, F. Morant. Deterministic Generation of Regular Languages in Discrete Event Systems. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):207-219, 2016, doi: 10.1016/j.riai.2016.01.002.	Modelling of Discrete Event Systems, Petri Nets, Timed Observability
J. P. D'Amato, M. Mercado, A. Heiling, V. Cifuentes. A Proximal Optimization Method to the Problem of Nesting Irregular Pieces using Parallel Architectures. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):220-227, 2016, doi: 10.1016/j.riai.2016.01.003.	Optimization, Nesting, Textile Industry, Heuristics, Parallelization
D. L. Leal, M. R. Celi, E. Álvarez. Integral Computer-aided System for Control Design and Implementation. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):228-237, 2016, doi: 10.1016/j.riai.2015.05.007.	Experimentation Environments, Embedded or Built-in Systems, Microcontrollers, Real-time Systems
R. E. Sánchez-Alonso, J. J. González-Barbosa, E. Castillo-Castañeda, M. A. García Murillo. Kinematic Analysis of a Novel Reconfigurable Parallel Robot. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(2):247-257, 2016, doi: 10.1016/j.riai.2015.07.007.	Parallel robot, Reconfiguration, Kinematics, Screw Theory, Jacobian Matrix, Manipulability Index
B. M. Vinagre, V. Feliu-Batlle, I. Tejado. Fractional Control: Fundamentals and User Guide. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):265-280, 2016, doi: 10.1016/j.riai.2016.05.001.	Fractional Control, Fractional Systems, Robust Control
J. G. Mendoza Larios, J. Colín Ocampo, A. Blanco Ortega, A. Abúndez Pliego, E. S. Gutiérrez Wing. Automatic Balancing of a Rotor-Bearing System: On-line Algebraic Identifier for a Rotordynamic Balancing System. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):281-292, 2016, doi: 10.1016/j.riai.2016.03.004	Balancing, Rotordynamic, Algebraic Identification, Rotor Bearing, Unbalance, Vibration
J. J. Ortega, M. Sigut. A Low-cost Mobile Prototype for High-realism Flight Simulation. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):293-303, 2016, doi: 10.1016/j.riai.2016.05.002	Flight Simulation, Arduino, PID Control, Low-cost, High-realism, Multiplatform System
G. N. Marichal, A. Hernández, J. A. Rojas, E. Melón, J.A. Rodríguez, I. Padrón. Intelligent Onboard Assistant for Maneuvering in Port. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):304-309, 2016, doi: 10.1016/j.riai.2016.03.005	Neuro-Fuzzy, Genetic algorithm, Vessel, Maneuver

F. Sasián, R. Theron, D. Gachet. Wireless Protocol for Renewable Installations. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):310-321, 2016, doi: 10.1016/j.riai.2016.05.003	Renewable, Photovoltaic, Wireless communication, Protocol
J. M. Díez, R. Montoya, P. A. Blasco. Methodology for Developing Programs to Implement in Programmable Logic Controllers (PLCs). MEPUS. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):322-329, 2016, doi: 10.1016/j.riai.2016.03.006	Automatic, Control, Methodology, PLC's, Programs, Random processes
E. Piñuela-Martín, A. J. del-Ama, J. C. Fraile-Marinero, Á. Gil-Agudo. Neuromuscular Electrical Stimulation Modelling by Physiological and Black-Box Approach. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):330-337, 2016, doi: 10.1016/j.riai.2015.09.012	Models, Identification, Stimulation, Electrodes, Control
C. A. Herrera-Cáceres, A. Ibeas. Mathematical Modeling of a Cash Concentration and Disbursements System. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):339-349, 2016, doi: 10.1016/j.riai.2015.07.008	Simulation, Cash concentration and disbursement, Inventory Control, Money transfer, Z Transform
A. F. Caballero, D. S. Copaci, Á. V. Peciña, D. B. Rojas, L. M. Lorente. Advanced Rapid Control Prototyping system on Engineering Education for Multidisciplinary Student Groups. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):350-362, 2016, doi: 10.1016/j.riai.2016.05.004	Control Engineering Education, Teaching, Tools and Automation Laboratories, CAD/CAM and CIM
M. Rodríguez, E. Zalama, I. González. Improving the Interoperability in the Digital Home Through the Automatic Generation of Software Adapters. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):363-369, 2016, doi: 10.1016/j.riai.2016.03.007	Code Generation, Interaction, Robots, System Models
J. G. Guarnizo, M. Mellado. Centralized Robot Soccer Architecture Based on Roles. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(3):370-380, 2016, doi: 10.1016/j.riai.2016.05.005	Agents, Decision Making, Autonomous Mobile Robots, Centralized Control, Architectures
R. Arnanz, F. J. García, L. J. Miguel. Methods for Induction Motor Control: State of Art. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):381-392, 2016, doi: 10.1016/j.riai.2015.10.001	Induction Motor, Variation of Frequency, Scalar Control, Vectorial Control, Direct Torque Control
R. González, A. Cipriano. An Insulin Infusion Fuzzy Controller with State Estimation for Artificial Pancreas Systems. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):393-402, 2016, doi: 10.1016/j.riai.2016.09.001	Biomedical Control, Extended Kalman Filters, Fuzzy Control, Medical Systems, Nonlinear Systems
M. E. Ortiz-Quisbert, M. A. Duarte-Mermoud, F. Milla, R. Castro-Linares. Fractional Adaptive Control Optimized by Genetic Algorithms, Applied to Automatic Voltage Regulators. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):403-409, 2016, doi: 10.1016/j.riai.2016.07.004	Fractional Order Model Reference Adaptive, Model Reference Adaptive Control, Fractional Control, Automatic Voltage Regulator, Genetic Algorithms, Genetic Algorithm Optimization
J. G. González Fontanet, A. Lussón Cervantes, I. Bausa Ortiz. Alternatives of Control for a Furuta's Pendulum. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):410-420, 2016, doi: 10.1016/j.riai.2016.05.008	Fuzzy Control, Predictive Control, Modelling, Energy Control, Controlled System
B. M. Al-Hadithi, C. E. García Cena, R. Cedazo León, C. Loor Loor. Development of an Artificial Intelligent Lighting System for Protected Crops. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):421-429, 2016, doi: 10.1016/j.riai.2016.07.005	Modeling, Predictive Control, PD Control, Software Tools, Computer Interfaces

<p>G. E. Anaya Fuentes, E. S. Hernández Gress, J. C. Seck Tuoh Mora, J. Medina Marín. Solution to the Job-shop Scheduling Problem through the Traveling Salesman Problem. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):430-437, 2016, doi: 10.1016/j.riai.2016.07.003</p>	<p>Efficient Algorithms, Industrial Production Systems, Optimization Problem, Traveling Salesman Problem</p>
<p>C. Cárdenas, J. Cardillo, J. J. Loiseau, C. Martínez. Control Problem in Max Plus Linear Model with Temporal Constraints. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):438-449, 2016, doi: 10.1016/j.riai.2016.07.001</p>	<p>Discrete Event Systems, Timed Event Graphs, Max Plus Algebra, Temporal Constraints</p>
<p>F. Calderón, A. Garnica-Carrillo, J. J. Flores. Multi Focus Image Fusion based on Linear Combination of Images using Incremental Images. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):450-461, 2016, doi: 10.1016/j.riai.2016.07.002</p>	<p>Linear Programming, Multifocus Images Fusion, High Pass Filters, Integral Images</p>
<p>D. Romero-Laorden, J. Villazón-Terrazas, M. Santos Peñas, M. A. García-Izquierdo, O. Martínez-Graullera. Analysis of a Software Implementation of an Ultrasonic Signal Beamformer in Real-time. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):462-471, 2016, doi: 10.1016/j.riai.2016.05.006</p>	<p>Ultrasonic Imaging, GPU, Signal Processing, Parallel Computing, CUDA</p>
<p>I. Ruano Ruano, J. Gámez García, J. Gómez Ortega. PID Control SCORM Web Laboratory with Advanced Integration. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 13(4):472-483, 2016, doi: 10.1016/j.riai.2016.05.007</p>	<p>Interactive Tools, Virtual and Remote Laboratories, Automation Education, E-learning. Distance Education and Learning Management Systems (LMS), Experimental Environment, Automatic Evaluation</p>

<b>2017</b>	
<b>Paper</b>	<b>Original keywords</b>
F. Alonso Zotes, M. Santos Peñas. Heuristic Optimization of Interplanetary Trajectories in Aerospace Missions. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):1-15, 2017, doi: 10.1016/j.riai.2016.07.006	Heuristic Optimization, Interplanetary Trajectories, Gravity Assistance, Fly-by, Aerospace Mission, GA, PSO, MOPSO
M. Guinaldo, J. Sebastié, S. Dormido. Event-based Control for Networked Systems: From Centralized to Distributed Approaches. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):16-30, 2017, doi: 10.1016/j.riai.2016.09.007	Networked Control, Event-based Control, Distributed Control, Large-scale System, Multi-agent System, Formation Control, Mobile Robot
L. A. Mora, J. E. Amaya. A New Identification Method Based on Open Loop Step Response of Overdamped System. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):31-43, 2017, doi: 10.1016/j.riai.2016.09.006	Process Identification, Step Function Responses, Multiple Real Poles, Root Mean Square Error, Transient Responses, Signal-to-noise Ratio, Open-loop Response, Step Input
J. J. Alcubilla. Inverse Interpolation Applied to Temporal Transient Response Characteristics to Parameters of the Typical Second Order Transfer Function. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):44-55, 2017, doi: 10.1016/j.riai.2016.09.008	Specifications Translation, Frequency Domain, Inverse Interpolation, Quantitative Feedback Theory, Tracking Sensitivity
R. Real-Calvo, A. Moreno-Munoz, V. Pallares-Lopez, M. J. Gonzalez-Redondo, I. M. Moreno-Garcia, E. J. Palacios-Garcia. Intelligent Electronic System to Control the Interconnection Between Distributed Generation Resources and Power Grid. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):56-69, 2017, doi: 10.1016/j.riai.2016.11.002	Smart Grid, Intelligent Electronic Device, Distributed Energy Resource, Embedded System, Real Time, Monitoring and Supervision, Renewable Energy
J. Bonilla, L. Roca, A. de la Calle, S. Dormido. Dynamic Model of a Molten Salt-gas Heat Recovery System for a Hybrid Renewable Solar Thermal Power Plant. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):70-81, 2017, doi: 10.1016/j.riai.2016.11.003	Thermal Storage, Concentrating Solar Power, Steam Turbine, Gas Turbine, Modelica
E. Estévez, A. Sánchez García, J. Gámez García, J. Gómez Ortega. An UML Based Approach for Designing and Coding Automatically Robotic Arm Platforms. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):82-93, 2017, doi: 10.1016/j.riai.2016.11.001	Manipulator Robots, UML- Unified Modeling Language, MDE-Model Driven Engineering, ROS-Robotic Operating System, OROCOS- Open Robot Control Software
A. Toriz P., M. Raygoza B., D. Martínez N. UAV Technology Inclusion Model for Preventing High-risk Jobs in Construction Industries Based on the IVAS Methodology. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):94-103, 2017, doi: 10.1016/j.riai.2016.09.004	Service Robotics, Unmanned Aerial Vehicles (UAV), Technological Inclusion
J. Cervantes, J. Taltempa, F. García-Lamont, J. S. R. Castilla, A. Y. Rendon, L. D. Jalili. Comparative Analysis of the Techniques Used in a Recognition System of Plant Leaves. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):104-114, 2017, doi: 10.1016/j.riai.2016.09.005	Classification, Descriptors, SVM, Data Sets

I. Ayed, B. Moyá-Alcover, P. Martínez-Bueso, J. VArona, A. Ghazel, A. Jaumei-Capó. Validation of RGBD Devices for Balance Clinical Measurement: the Functional Reach Test with Microsoft Kinect. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(1):115-120, 2017, doi: 10.1016/j.riai.2016.07.007	Computer Vision, Microsoft Kinect, RGBD, Clinical Evaluation, Balance, Motor Rehabilitation
I. Pastor, J. Valente. Adaptive Sampling in Robotics: A Survey. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):123-132, 2017, doi: 10.1016/j.riai.2016.09.009	Field Robotics, Adaptive Sampling, Remote Sensing, Path Planning, Optimal Coverage
N. R. Cazarez-Castro, L. T. Aguilar, S. L. Cardenas-Madel, C. A. Goribar-Jimenez, M. Odreman-Vera. Design of a Fuzzy Controller via Fuzzy Lyapunov Synthesis for the Stabilization of an Inertial Wheel Pendulum. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):133-140, 2017, doi: 10.1016/j.riai.2016.12.001	Fuzzy Control, Lyapunov Stability, Underactuated System
H. Yañez-Badillo, R. Tapia-Olvera, O. Aguilar-Mejía, F. Beltran-Carbajal. On Line Adaptive Neurocontroller for Regulating Angular Position and Trajectory of Quadrotor System. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):141-151, 2017, doi: 10.1016/j.riai.2017.01.001	Neural Network Control, Model-Free Control, Automatic Learning, Underactuated Systems
G. Villalón-Sepúlveda, M. Torres-Torriti, M. Flores-Calero. Traffic Sign Detection System for Locating Road Intersections and Braking Advance. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):152-162, 2017, doi: 10.1016/j.riai.2016.09.010	Distance, Color, Road Intersection, Accidents, Traffic Signs, Statistics Templates
A. G. González-Rodríguez, A. González-Rodríguez, J. M. Chacón, F. J. Castillo. Wide Frequency Vibration Absorber Based on a New Adjustable-stiffness Leaf Spring. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):163-173, 2017, doi: 10.1016/j.riai.2016.11.005	Adjustable-stiffness, Vibration Absorber, Non-linear Spring, Leaf Spring, Non-linear Systems, Modelling and Simulation
J. M. García, I. J. Medina, J. L. Martínez, A. García-Cerezo, A. Linares, C. Porras. Lázaro: a Mobile Robot with an Arm Developed to Contact with the Ground. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):174-183, 2017, doi: 10.1016/j.riai.2016.09.012	Mobile Robots, Tipover Stability, Motion Control, Teleoperation
J. J. Villarejo Myor, R. Mamede Costa, A. Frizera-Neto, T. Freire Bastos. Decoding of Grasp and Individuated Finger Movements Nased on Low-density Myoelectric Signals. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):184-192, 2017, doi: 10.1016/j.riai.2017.02.001	Myoelectric Signals, Upper-limb Prosthesis, Superficial Electromyography Low Density, Dexterous Hand Gestures, Pattern Recognition
S. Casas, C. Portalés, J. V. Riera, M. Fernández. Heuristics for Solving the Parameter Tuning Problem in Motion Cueing Algorithms. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):193-204, 2017, doi: 10.1016/j.riai.2016.09.011	Motion platforms, Heuristics, Simulation, Motion Cueing Algorithms, Tuning, Robotics, Optimization
F. Gomez-Bravo, J. Medina García, R. Jiménez Naharro, J. A. Gómez Galán, M. Sánchez Raya. Experimental Platform for Studying Hardware Vulnerabilities on Mobile Robots: I2C Bus, a Case of Study. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(2):205-216, 2017, doi: 10.1016/j.riai.2017.02.002	Mobile Robot, Hardware Vulnerability, FPGA, Configurable Hardware
R. Vilanova, I. Santín, C. Pedret. Control and Operation of Wastewater Treatment Plants (I). RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):217-233, 2017, doi: 10.1016/j.riai.2017.05.004	Wastewater Treatment Plants, Activated Sludge Process, Benchmarking

C. Troncoso, A. Suárez S. Pulp Level Control of a Flotation Circuit using a Model Predictive Control Strategy. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):234-245, 2017, doi: 10.1016/j.riai.2017.04.003	Model Predictive Control, System Identification and Parameter Estimation, Kalman Filter, Disturbance Rejection, Mining, Metallurgy, Metals and Materials
H. Huerta, R. Osorio, N. Vázquez. Nonlinear Robust Control of a Machine to Make Thin Films. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):246-255, 2017, doi: 10.1016/j.riai.2017.04.002	Sliding Modes, Nonlinear System, Brushless Motor, PID Control
R. A. García, F. R. Rubio, L. Orihuela, P. Millán, M. G. Ortega. Guaranteed Distributed Observers for Networked Systems. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):256-267, 2017, doi: 10.1016/j.riai.2017.05.003	Distributed Estimation, State Observers, Delays Systems, Networked systems, Zonotopes
J. Campuzano-Cervantes, F. Meléndez-Pertuz, B. Núñez-Perez, J. Simancas-García. Electronic Monitoring System of Displacement of Extension Tubes for the Expansion Joint. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):268-278, 2017, doi: 10.1016/j.riai.2017.03.002	Expansion Joint, Monitored Control Systems, Transport of Hydrocarbons, Pipelines, Graphic Interface
R.E. Sánchez-Alonso, J. Ortega-Moody, J-J. González-Barbosa, G. Reyes-Morales. Use of Platforms for the Development of Virtual Applications in the Modeling of Robot Manipulators. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):279-287, 2017, doi: 10.1016/j.riai.2017.04.001	Modeling, Manipulator Robots, Virtual Reality, Dynamic Systems
R. Pérez-Rodríguez, A. Hernández-Aguirre. An estimation of Distribution Algorithm Coupled with the Generalized Mallows Distribution for a School Bus Routing Problem with Bus Stop Selection. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):288-298, 2017, doi: 10.1016/j.riai.2017.05.002	Estimation of Distribution Algorithm, Mallows Distribution, Vehicle Routing Problem, School Bus Routing Problem
J. Gallardo-Alvarado, M. A. Garcia-Murillo. Kinematics by Means of Screw Theory of the 4-PRUR Parallel Manipulator. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):299-306, 2017, doi: 10.1016/j.riai.2017.03.001	Parallel robot, Schönflies Motion, Screw Theory, Kinematics
A. Fernández Villán, R. Usamentiaga Fernández, R. Casado Tejedor. Automatic System to Detect both Distraction and Drowsiness in Drivers using Robust Visual Features. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(3):307-328, 2017, doi: 10.1016/j.riai.2017.05.001	Distraction and Drowsiness Detection, Computer Vision, Perception and Recognition, Machine Learning, Monitoring and Supervision
R. Vilanova, I. Santín, C. Pedret. Control and Operation of Wastewater Treatment Plants: Challenges and State of the Art. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):329-345, 2017, doi: 10.1016/j.riai.2017.09.001	Wastewater Treatment Plants Benchmarking Control and Operation
L. J. Barrios, R. Hornero, J. Pérez-Turiel, J. L. Pons, J. Vidal, J. M. Azorín. State of the Art in Neurotechnologies for Assistance and Rehabilitation in Spain: Fundamental Technologies. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):346-354, 2017, doi: 10.1016/j.riai.2017.06.003	Neurotechnologies, Brain-Computer Interfaces, Robotics, Signal Processing, Electrical Stimulation, Biomedical Systems, Rehabilitation, Assistive Technologies
L. J. Barrios, J. Minguillón, F. J. Perales, R. Ron-Angevin, J. Solé-Casals, M. A. Mañanas. State of the Art in Neurotechnologies for Assistance and Rehabilitation in Spain: Support Technologies, Technology Transfer and Clinical Application. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):355-361, 2017, doi: 10.1016/j.riai.2017.06.004	Neurotechnologies, Signal Processing, Electronic Systems, Information Technology, Biomedical Systems, Rehabilitation, Assistive Technologies



<p>T. R. Botelho, D. Soprani, C. Rodrigues, A. Ferreira, A. Frizzera. New Approach to the EEG Signals Classification using the Variance of the Difference between the Classes of a Bayesian Classifier. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):362-371, 2017, doi: 10.1016/j.riai.2017.07.002</p>	<p>Human-machine Interface, Signal Analysis, Biomedical Systems, Inertial Measurement Units, Human Brain, Movement</p>
<p>V. Martínez-Cagigal, R. Hornero. P300-Based Brain-Computer Interface Channel Selection using Swarm Intelligence. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):372-383, 2017, doi: 10.1016/j.riai.2017.07.003</p>	<p>Interfaces, Machine Learning, Biomedical Systems, Optimization and Computational Methods, Electroencephalograph, Communication Systems</p>
<p>A. Clemotte, M. A. Velasco, R. Raya, R. Ceres, R. de Córdoba, E. Rocon. Evaluation Methodology for Eye-trackers as Alternative Access Device for People with Cerebral Palsy. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):383-393, 2017, doi: 10.1016/j.riai.2017.07.004</p>	<p>Alternative Access, Eye-trackers, Methodology, Evaluation, Assessment, Cerebral Palsy, Fitts' Law</p>
<p>R. González, A. Barrientos, M. Toapanta, J. del Cerro. Application of Support Vector Machines (SVM) for Clinical Diagnosis of Parkinson's Disease and Essential Tremor. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):394-405, 2017, doi: 10.1016/j.riai.2017.07.005</p>	<p>Computer Assisted Diagnosis, Binary Classifiers, Parkinson-Essential Classification, Objective Tremor Measure, Pattern Analysis, Feature Extraction, Medical Diagnosis</p>
<p>M. Rojas-Martínez, J. F. Alonso, M. Jordanic, S. Romero, M. A. Mañanas. Identification of Isometric and Dynamic Tasks of the Upper Limb based on High-density EMG. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):406-411, 2017, doi: 10.1016/j.riai.2017.07.006</p>	<p>Bioengineering, Electromiography, Neuromuscular, Rehabilitation</p>
<p>J. A. Romera Cabrerizo, M. Santos. ParaTrough: Modelica-based Simulation Library for Solar Thermal Plants. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):412-423, 2017, doi: 10.1016/j.riai.2017.06.005</p>	<p>Modeling, Simulation, Solar Thermal Plant, Parabolic Trough Power Plants, Modelica, Renewable Energy</p>
<p>J. Martínez, A. Padilla, E. Rodríguez, A. Jiménez, H. Orozco. Design of Teaching Tools Focused on control Systems with Virtual Instruments. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):424-433, 2017, doi: 10.1016/j.riai.2017.03.003</p>	<p>Stability, Simulation Systems, Control Education, Virtual Laboratory</p>
<p>M. A. Limón-Díaz, F. Reyes-Cortés, E. J. González-Galván. Saturated Regulation with Derivative Variable Gain for Robot Manipulators. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):434-445, 2017, doi: 10.1016/j.riai.2017.06.001</p>	<p>Regulator, Variable Gain, Robotic Manipulator, Control Algorithm</p>
<p>E. A. Ortiz Colín, I. H. Hernández González, J. J. Rodríguez Rivas, O. Carranza Castillo, R. Ortega González, R. Morales Caporal. Sünter-Clare Algorithm Implementation in a 3x3 Matrix Converter. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):446-454, 2017, doi: 10.1016/j.riai.2017.06.002</p>	<p>Matrix Converter, Sünter-Clare Modulation Algorithm, Total Harmonic Distortion</p>
<p>S. Casas, C. Portalés, S. Rueda, M. Fernández. On the Simulation of Robotic Motion Platforms with Digital Filters for Virtual Reality Applications. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 14(4):455-466, 2017, doi: 10.1016/j.riai.2017.07.001</p>	<p>Motion Platforms, Simulation, Digital Filters, Virtual Reality, Robotics, Real Time</p>

**2018**

Paper	Original keywords
<p>J.A. Bonache Seco, J. Dormido Canto, M. Montalvo Martinez, J.A. López-Orozco, E. Besada Portas, J.M. de la Cruz Garcia. A Ground Control Station for Collaborative Unmanned Surface Vehicles. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):1-11, 2018.  <a href="https://doi.org/10.4995/riai.2017.8737">https://doi.org/10.4995/riai.2017.8737</a></p>	<p>Monitoring and supervision; Route planning; Cooperative control; Distributed control systems; Marine and submarine systems; Ground control station</p>
<p>Marina Pérez de la Portilla, Amable López Piñeiro, José Andrés Somolinos Sánchez, Rafael Morales Herrera. Dynamic Modelling and Control of a Submerged Device with Hydrostatic Actuators. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):12-23, 2018.  <a href="https://doi.org/10.4995/riai.2017.8824">https://doi.org/10.4995/riai.2017.8824</a></p>	<p>Renewable Energies; Marine Systems; Multivariable Control Systems; Time varying systems; OrcaFlex-Matlab Integration</p>
<p>Francisco Bonin-Font, Carles Coll Gomila, Gabriel Oliver Codina. Towards Visual Navigation of an Autonomous Underwater Vehicle in Areas with Posidonia Oceanica. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):24-35, 2018.  <a href="https://doi.org/10.4995/riai.2017.8828">https://doi.org/10.4995/riai.2017.8828</a></p>	<p>Autonomous Mobile Robots; Robot Navigation; Robot Vision; Visual Motion</p>
<p>Diego García, Jesús Sandoval, Joaquín Gutiérrez-Jagüey, Eusebio Bugarin. IDA-PBC Control of an Underactuated Underwater Vehicle. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):36-45, 2018.  <a href="https://doi.org/10.4995/riai.2017.8829">https://doi.org/10.4995/riai.2017.8829</a></p>	<p>Underwater vehicle; underactuated system; non-linear control; IDA-PBC</p>
<p>Eduardo M Rubino, D. Centelles, Jorge Sales, José V. Martí, Raúl Marín, Alberto J. Alvares, Pedro J. Sanz. Underwater Wireless Vision System Using Progressive Image Compression and Region of Interest. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):46-57, 2018.  <a href="https://doi.org/10.4995/riai.2017.8953">https://doi.org/10.4995/riai.2017.8953</a></p>	<p>Image Compression; Data Transmission; Communication Systems; Teleoperation</p>
<p>Elías Revestido Herrero, Francisco J. Velasco, Luis M. Vega, Francisco J. Lastra. Efficient Parameter Estimation and Control Based on a Modified LOS Guidance System of an Underwater Vehicle. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):58-69, 2018.  <a href="https://doi.org/10.4995/riai.2017.8826">https://doi.org/10.4995/riai.2017.8826</a></p>	<p>Parameter estimation; ordinary least squares; general least squares; non linear manoeuvring model; LOS</p>
<p>Javier Pérez, David Fornas, Raúl Marín, Pedro J. Sanz. UWSim, an underwater robotic simulator on the cloud as educational tool. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):70-78, 2018.  <a href="https://doi.org/10.4995/riai.2017.8827">https://doi.org/10.4995/riai.2017.8827</a></p>	<p>Robotics; Education; Benchmark examples; Autonomous vehicles; Marine systems; Educational aids; Telerobotics</p>
<p>Manuel Prian Rodríguez, Manuel J. López Sánchez, J. Francisco Moreno Verdulla. Calculation Method for Equilibrium Points in Dynamical Systems Based on Adaptive Synchronization. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):79-85, 2018.  <a href="https://doi.org/10.4995/riai.2017.8845">https://doi.org/10.4995/riai.2017.8845</a></p>	<p>Adaptive control; chaos; stabilization; reference model; equilibrium point; synchronization; dynamic system</p>
<p>Mauro Baquero-Suárez, John Cortes-Romero, Jaime Arcos-Legarda, Horacio Coral-Enriquez. Automatic Stabilization of a Riderless Bicycle using the Active Disturbance Rejection Control Approach. <i>RIAI - Revista Iberoamericana de Automática e Informática Industrial</i>, ISSN: 1697-7912, 15(1):86-100, 2018.  <a href="https://doi.org/10.4995/riai.2017.8832">https://doi.org/10.4995/riai.2017.8832</a></p>	<p>Robotic bicycles; Active disturbance rejection control; Robust control; Disturbance observers; Multibody systems dynamics; Non-linear systems; Autonomous vehicles</p>

Henry Bory Prevez, Herminio Martínez García, Luís Vázquez Seisdedos, Francisco Chang Mumañ, Lorenzo Alfredo Enríquez García. Comparison of Three-Phase Rectifier with Symmetrical Switching and AC-AC Converter for the Power Factor Improvement in Hydroelectric Micro-Plants. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(1):101-111, 2018. <a href="https://doi.org/10.4995/riai.2017.8816">https://doi.org/10.4995/riai.2017.8816</a>	Controlled rectifiers; switching AC-AC converters; power factor; frequency control
Diego A. Aligia, Guillermo A. Magallán, Cristian H. De Angelo. Traction control of an electric vehicle based on nonlinear observers. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(1):112-123, 2018. <a href="https://doi.org/10.4995/riai.2017.8736">https://doi.org/10.4995/riai.2017.8736</a>	Traction control; road condition; friction coefficient, brush tyre model; feedback linearization; nonlinear Luenberger observer
Azeddine Mjihad, Alfredo Rosado Muñoz, Manuel Bataller Mompeán, Jose V. Francés Vllora, Juan F. Guerrero Martínez. Ventricular Fibrillation detection using time-frequency and the KNN classifier without parameter extraction. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(1):124-132, 2018. <a href="https://doi.org/10.4995/riai.2017.8833">https://doi.org/10.4995/riai.2017.8833</a>	Biomedical systems; Electrocardiographic signals; time-frequency representation; Non-stationary signals; Image analysis; Classification
T. Rodríguez-Blanco, D. Sarabia, C. de Prada. Real-Time optimization using the Modifier Adaptation methodology. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):133-144, 2018. <a href="https://doi.org/10.4995/riai.2017.8846">https://doi.org/10.4995/riai.2017.8846</a>	Real-Time optimization; uncertainty; modifier-adaptation
Jon Lekube, Aitor J. Garrido, Izaskun Garrido, Erlantz Otaola. Output Power Improvement in Oscillating Water Column-based Wave Power Plants. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):145-155, 2018. <a href="https://doi.org/10.4995/riai.2017.8831">https://doi.org/10.4995/riai.2017.8831</a>	Renewable energy systems; wave power plants; oscillating water column; power control; induction generators
Marcelo V García, Eurne Irisarri, Federico Pérez, Elisabet Estévez, Marga Marcos. Automation Architecture based on Cyber Physical Systems for Flexible Manufacturing within Oil&Gas Industry. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):156-166, 2018. <a href="https://doi.org/10.4995/riai.2017.8823">https://doi.org/10.4995/riai.2017.8823</a>	Industry 4.0; Industrial Systems Integration; Cyber-Physical Production Systems; OPC UA; IEC 61499
Juan Carlos Travieso-Torres, Manuel A. Duarte-Mermoud, Antonio Gutiérrez-Osorio, Orlando Beytía. Passivity Based Control of a Class of Nonlinear Systems and its Application to the Level Regulation of a Conical Tank. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):167-173, 2018. <a href="https://doi.org/10.4995/riai.2017.8976">https://doi.org/10.4995/riai.2017.8976</a>	Nonlinear control systems; adaptive control; passivity
M.D. Del Castillo, J.I. Serrano, S. Lerma, I. Martínez, E Rocon. Neurophysiologic Assessment of Motor Imagery Training by Using Virtual Reality for Pediatric Population with Cerebral Palsy. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):174-179, 2018. <a href="https://doi.org/10.4995/riai.2017.8819">https://doi.org/10.4995/riai.2017.8819</a>	Bioengineering; Disability; Interfaces; Virtual Reality, Rehabilitation; Motor Imagery; EEG
Aitziber Mancisidor, Asier Zubizarreta, Itziar Cabanes, Pablo Bengoa, Je Hyung Jung. Multifunctional Robotic Device for the Rehabilitation of the Upper Limbs. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):180-191, 2018. <a href="https://doi.org/10.4995/riai.2017.8820">https://doi.org/10.4995/riai.2017.8820</a>	Upper limb rehabilitation; Rehabilitation robots; Assistive tasks; Resistive tasks; Impedance control; Rehabilitation software; Implementation; Experimental validation

<p>Isiah Zaplana, Josep Arnau Claret, Luis Basanez. Kinematic analysis of redundant robotic manipulators: application to Kuka LWR 4+ and ABB Yumi. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):192-202, 2018.  <a href="https://doi.org/10.4995/riai.2017.8822">https://doi.org/10.4995/riai.2017.8822</a></p>	<p>Kinematics; Inverse kinematic problem; Redundant manipulators; Singularities; transformation matrices</p>
<p>Jairo A. Acevedo-Londoño, Eduardo Caicedo-Bravo, Javier F. Castillo-García. Playful Robotic Environment for Rehabilitation Therapies of Pediatric Patients with Upper Limb Disability. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):203-210, 2018.  <a href="https://doi.org/10.4995/riai.2017.9043">https://doi.org/10.4995/riai.2017.9043</a></p>	<p>Disability; Assisted Robotics; Upper limb; Engineering; Robotics; Therapy; Rehabilitation</p>
<p>Eduardo Trutié-Carrero, Damian Valdés-Santiago, Ángela León-Mecías, Jorge Ramírez-Beltrán. Burst Detection and Localization using Discrete Wavelet Transform and Cross-Correlation. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):211-216, 2018.  <a href="https://doi.org/10.4995/riai.2017.8738">https://doi.org/10.4995/riai.2017.8738</a></p>	<p>Singularity; wavelet transform; detection; estimation</p>
<p>I. Simón-Marmolejo, Omar López-Ortega, L. E. Ramos-Velasco, M. Ortiz-Domínguez. Unified Ontology for a Holonic Manufacturing System. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 15(2):217-230, 2018.  <a href="https://doi.org/10.4995/riai.2017.8851">https://doi.org/10.4995/riai.2017.8851</a></p>	<p>Flexible and intelligent manufacturing systems and cells; smart control techniques; agents; distributed and decentralized control architectures; database systems</p>