



www.elsevier.es/RIAI

## 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 aquéllas 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>2015</b>	
<b>Paper</b>	<b>Original keywords</b>
R. González, F. Rodríguez, J. L. Guzmán. Autonomous tracked robots. History, modelling, localization, and motion control. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):3-12, 2015.	Slip. Visual odometry. Adaptive control. Predictive control.
J. C. Alfonso-Gil, C. Ariño, E. Pérez, H. Beltrán. Control of a selective power compensator by means of an optimization algorithm subject to quadratic constraints. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):13-24, 2015.	Electric power systems. Power distribution. Optimization problems. Feedforward control.
J. de las Morenas, A. García, F. Martínez, P. García Ansola. Physical agents and RFID for the implementation of the shop floor control on a distribution centre. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):25-35, 2015.	PLCs. Multi-agent system. Shop floor control. RFID. Petri nets.
E. Slawiński, V. Mut, F. Penizzoto. Car accidents prevention warning system based on vibrotactile steering wheels. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):36-48, 2015.	Safety. Sensors and virtual instrument. Automotive. Vibro-tactile stimuli. Accidents prevention.
R. Pérez, S. Jöns, A. Hernández. Solution of a flexible jobshop scheduling problem using an estimation of distribution algorithm. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):49-57, 2015.	Scheduling. Estimation of distribution algorithm.
J. A. Araúzo, R. del-Olmo-Martínez, J. J. Laviós, J. J. de-Benito-Martín. Scheduling and control of flexible manufacturing systems: A holonic approach. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):58-68, 2015.	Production control. Production systems. Scheduling algorithms. Flexible manufacturing systems. Intelligent manufacturing systems.
S. Domínguez. Image analysis by the method of moments using piecewise continuous basis functions (PCBF). RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):69-78, 2015.	Method of moments. Invariant descriptors. Orthonormal basis. Content based image retrieval. Image analysis.
M. A. Landeira Freire, E. Sánchez, S. Tejada, R. Díez. Development and implementation of a singularity management strategy for a cooperative redundant robotic system destined to assistance during surgical interventions. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):80-91, 2015.	Singularities. Inverse kinematics problem. Redundant manipulator. Cooperative control. Biomedical system.
R. Morales, F. J. Badesa, N. García-Aracil, J. Aranda, A. Casals. Autoadaptive neurorehabilitation robotic system assessment with a post-stroke patient. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):92-98, 2015.	Physiological state. Multimodal interfaces. Rehabilitation robotics. Control.
L. V. Calderita, P. Bustos, C. Suárez Mejías, F. Fernández, R. Viciano, A. Bandera. Socially interactive robot for motor rehabilitation therapies with paediatric patients. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(1):99-110, 2015.	Rehabilitation therapies. Socially assistant robotics. Human-robot interaction.
C. Bordóns, F. García-Torres, L. Valverde. Optimal energy management for renewable energy microgrids. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):117-132, 2015.	Microgrids. Renewable energy. Model predictive control. Energy management. Electrical system.
H. Sira-Ramírez, J. Linares-Flores, A. Luviano-Juárez, J. Cortés-Romero. Global ultra-models in active disturbance rejection control of nonlinear differentially flat systems. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):133-144, 2015.	Robust control. Active disturbance rejection control. High gain observers. Disturbance estimation.

	Permanent magnet synchronous motor.
L. M. Gómez, H. Botero, H. Alvarez, F. di Sciascio. State controllability analysis for irreversible systems using Set Theory. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):145-153, 2015.	Controllability. Reversible systems. Batch control.
M. Prian Rodríguez, M. J. López Sánchez, J. F. Moreno Verdulla. Analysis of an adaptive hybrid control system which stabilizes unstable periodic orbits embedded in chaotic attractors. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):154-165, 2015.	Hybrid control. Adaptive control. Unstable periodic orbit. Reference model. Synchronization. Chaotic systems.
J. González, S. Gomáriz, C. Batlle. Fuzzy control for yaw tracking of Cormoran AUV. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):166-176, 2015.	Fuzzy control. Autonomous vehicles. Linear control systems. Mathematical models. Continuous path control.
J. Carrillo-Ahumada, G. Reynoso-Meza, S. García-Nieto, J. Sanchis, M.A. García-Alvarado. Tuning of Pareto-optimal robust controllers for multivariable systems. Application on helicopter of two-degrees-of-freedom. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):177-188, 2015.	Nonlinear system. Robust control. Optimal control. Performance indices. Real-time.
A. Ramírez-Pedraza, J. J. González-Barbosa, F.J. Ornelas-Rodríguez, A. I. García-Moreno, A. Salazar-Garibay, E.A. González-Barbosa. Vehicle detection in urban environments scanned by a Lidar. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):189-198, 2015.	3D point cloud. Lidar. 3D segmentation.
J. R. Fischer, S. A. González, I. Carugati, M. G. Judewicz, D. O. Carrica. PLL-less robust deadbeat response direct power control of grid-tie three-phase inverters. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):199-207, 2015.	Deadbeat predictive current control. Grid-tied three-phase voltage source inverter. Direct power control.
R. F. Farfán, C. A. Cadena, L. T. Villa. Experimental use of fuzzy logic in the maximum power point of photovoltaic module converters. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):208-217, 2015.	Fuzzy logic. FLC. Boost. Photovoltaic.
F. García, A. Ponz, D. Martín, J. M. Armingol, A. de la Escalera. Laser scanner and computer vision fusion for pedestrian detection in road environments. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):218-229, 2015.	Data fusion. Computer vision. Intelligent machines. Vehicles. Obstacle detection.
C. Guardiola, S. Hoyas, B. Pla, D. Blanco-Rodríguez. Analytical solution of the steady-state Kalman filter for observing drift on NO <sub>x</sub> models with application to turbocharged diesel engines. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(2):230-238, 2015.	Kalman filter. Data fusion. Drift correction. Powertrains. NO <sub>x</sub> . Diesel.
J. Picó, A. Vignoni, E. Picó-Marco, Y. Boada. Modelling biochemical systems: From Mass Action Kinetics to Linear Noise Approximation. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):241-252, 2015.	Stochastic systems. Differential equations. Modeling of continuous systems. Model reduction. Simulation. Noise. Biological and biotechnological systems and bioprocesses.
E. Haro, M. Acevedo, R. Velázquez. Vehicle parameter sensitivity with polynomial chaos. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):253-259, 2015.	Sensitivity. Uncertain dynamic systems. Polynomial chaos. Vehicle dynamics.
A. Zambrano Vizueté, I. Pérez Llopis, C. Palau Salvador, M. Esteve Domingo. Quake detection system using smartphone-based Wireless sensor network	Accelerometers. Architecture. Distributed detection.

for early warning. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):260-269, 2015.	Multisensor integration. Real Time.
A. Ochoa, J. Ureña, A. Hernández, A. González, W. Mata, R. A. Félix. Analysis and modeling of a MIMO ultrasonic sensorial structure based on M-CSS and correlation techniques. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):270-281, 2015.	Ultrasonic sensorial structure. Macro-sequence. Frequency-selective MIMO model. Correlation techniques. Complementary set of M-sequences.
J. de-J. Lozoya-Santos, D. Hernández-Alcantara, R. Morales-Menendez, R. A. Ramírez-Mendoza. Modeling of dampers guided by their characteristic diagrams. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):282-291, 2015.	Semi-active damper. Passive damper. Modeling. Methodology. Simulation.
F. J. Villalobos-Piña, R. Alvarez-Salas. Robust algorithm for electric fault diagnosis in the three phase induction machine based on spectral and wavelet tools. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):292-303, 2015.	Fault diagnosis. Induction machines. Instantaneous space phasor. Fast Fourier transform. Wavelets.
M. Pereda, J. M. Zamarreño. Agent-based modelling: an approach from the systems engineering. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):304-312, 2015.	Agents. Dynamic modelling. Systems engineering. State space. Conceptual representations.
R. Raygosa-Barahona, E. Olguín-Díaz, V. Parra-Vega, L. A. Muñoz-Ubando. Model free control based on integral sliding modes for underactuated underwater robots. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):313-324, 2015.	Model-free control. Integral sliding mode control. Underactuated systems. Underwater vehicles.
F. Ortiz, A. Guerrero, F. Sánchez-Ledesma, F. García-Córdova, D. Alonso, J. Gilabert. Design of the control software of a UUV for oceanographic monitoring using a component model and framework with flexible deployment. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):325-337, 2015.	UUV Unmanned Underwater Vehicle. Oceanographic monitoring. Component framework. Component model. Deployment. Concurrency analysis.
H. E. Calderón López, J. Bedolla Hernández, D. Szwedowicz Wasik. Optimizing the energy consumed by the extremities of a walking robot. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(3):338-349, 2015.	Planning and trajectory tracking. Mobile robots and intelligent autonomous vehicles. Kinematics of robots. Dynamics of robots. Control of forces.
F. Barrero-González, M.I Milanés-Montero, E. González-Romera, C. Roncero-Clemente, P. González-Castrillo. Load-frequency control of multiarea electric power systems. Review and new challenges. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):357-364, 2015.	Electrical system simulation. Control hierarchy. Frequency control. Automatic generation control. Renewable energies, smartgrids, power electrical and electronic systems.
F.D.J. Sorcia-Vázquez, C.D. García-Beltrán, G. Valencia-Palomo, G. Guerrero-Ramírez, M. Adam-Medina, R. Escobar-Jiménez. Distributed model predictive control applied to a four interconnected tank process. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):365-375, 2015.	Predictive control. Distributed control.
F.A. Acosta, A.I. González, J.M. Zamarreño, V. Álvarez. Non-linear predictive control for the energy management of an air conditioning centralized system in a hotel installation. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):376-384, 2015.	Model based predictive control. RTS method. Thermal load. Electrical consumption. Hotel.
M. De Paula, L.O. Ávila, C. Sánchez Reinoso, G.G. Acosta. Multimodal control in uncertain environments using reinforcement learning and gaussian processes. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):385-396, 2015.	Multimodal control. Dynamic programming. Gaussian processes. Uncertainty. Policy.

M. Heras Cervantes, A.C. Téllez Anguiano, M.C. García Ramírez, C.M. Astorga Zaragoza, E. Reyes Archundia. Experimental validation of a reconfigurable high-gain observer for a distillation column. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):397-407, 2015.	Distillation columns. High-gain reconfigurable observer. Experimental validation.
V. De-León-Gómez, J.A. Pámanes, V. Santibáñez. Experimental evaluation of the real-time walking of a 5 dof biped robot with a gait based on cycloidal motions. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):408-418, 2015.	Biped robots. Gait patterns. ZMP. Cycloidal motion. Path tracking.
F. Cerezo, F. Sastrón. Virtual laboratories and teaching of Automatic Control in basic technology education of students of high school. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):419-431, 2015.	Virtual laboratories. Education. Internet. Control. Robotics.
O. Barambones, E. Irigoyen, M. Tomás-Rodríguez. Introduction to special session "Stability techniques in fuzzy control systems. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):432-433, 2015.	Stability. Fuzzy control systems.
A.J. Barragán, B.M. Al-Hadithi, J.M. Andújar, A. Jiménez. Formal methodology for analyzing the dynamic behavior of nonlinear systems using fuzzy logic. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):434-445, 2015.	Dynamic analysis. Stability. Equilibrium state. Linearization. Poincaré's methodology. Fuzzy modeling. Dynamic systems. Takagi-Sugeno (TS) model.
L.A. Martínez Rivera, O. López-Ortega, O.A. Domínguez Ramírez. Stability analysis of fuzzy controllers through the computation of the Lyapunov exponent. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):446-456, 2015.	Stability analysis. Lyapunov exponent. Fuzzy controllers. Mamdani rule base.
J.L. Pitarch, A. Sala, C.V. Ariño. Stability of Takagi-Sugeno systems under nonvanishing disturbances: estimating inescapable sets. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):457-466, 2015.	Takagi-Sugeno. Disturbance rejection. Inescapable set. Local stability. LMI. Nonvanishing disturbances.
R. Villafuerte, J.A. Ortega Melo. Design and tuning of a fuzzy proportional retarded controller: frequency approach. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):467-475, 2015.	Nonlinear control systems. Fuzzy systems. Time delay systems. PR fuzzy control.
M. Farhat, O. Barambones, J.A. Ramos, E. Durán, J.M. Andújar. Design and implementation of a stable control system based on fuzzy logic in order to optimize the performance of a photovoltaic generation system. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):476-487, 2015.	Photovoltaic systems. Tracking the maximum power point. Fuzzy control. Lyapunov function. DC/DC converter.
P.J. Prieto, N.R. Cazarez-Castro, D. García, S.L. Cardenas-Maciel. Stability for a sliding mode fuzzy control applied to a pneumatic parallel robot. RIAI - Revista Iberoamericana de Automática e Informática Industrial, ISSN: 1697-7912, 12(4):488-496, 2015.	Fuzzy control. Robot control. Lyapunov stability. Sliding mode.

<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 control. Fault detection. Semi-active automotive suspensión. 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	Motion control. Vibration

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	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. Rotorbearing. 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.



<p>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</p>	<p>Fuzzy control. Predictive control. Modelling. Energy control. Controlled system.</p>
<p>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</p>	<p>Modeling. Predictive control. PD control. Software tools. Computer interfaces.</p>
<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 misión. 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 supervisión. 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. VAróna, A. Ghazel, A. Jaume-i-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,	Computer Vision. Microsoft Kinect. RGBD. Clinical evaluation. Balance. Motor Rehabilitation.

doi: 10.1016/j.riai.2016.07.007	
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. Frizzera-Neto, T. Freire Bastos. Decoding of grasp and individuated finger movements based 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, metalurgy, 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:	Sliding modes, Nonlinear system, Brushless motor, PID control

10.1016/j.riai.2017.04.002	
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 extensión 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 problema 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