

# Curriculum Vitae

## 1. Datos Generales

Alberto Soria López, Guadalajara Jalisco, 52 años.

Escolaridad.

Doctorado

*Université d'Evry Val d'Essonne* – Francia.

Nombre del programa: Ciencias y Técnicas Industriales.

Fecha de obtención del grado: 8 de diciembre de 1999.

Maestría

*Université d'Evry Val d'Essonne* – Francia.

Nombre del programa: Control y Modelización de Procesos Industriales.

Fecha de obtención del grado: 6 de julio de 1994.

Licenciatura

Universidad Autónoma Metropolitana Iztapalapa.

Nombre del programa: Licenciatura en Ingeniería Electrónica.

Fecha de obtención del grado: 5 de octubre de 1992.

Experiencia profesional.

Asesor del laboratorio de sistemas digitales. Institut National des Télécommunications, Evry, Francia. Enero a mayo de 1999.

Profesor asistente categoría “A” Universidad Autónoma Metropolitana Iztapalapa. Noviembre de 1992 a junio de 1993.

Ayudante de Profesor. Universidad Autónoma Metropolitana Iztapalapa. Agosto a noviembre de 1992.

Generación y Potencia. México Distrito Federal. Compañía dedicada a la producción de plantas generadoras de luz. Diseño e implementación de un sistema de control para plantas generadoras de luz. De septiembre de 1992 a febrero de 1993.

Posición y categoría actuales: Investigador CINVESTAV 3B.

Investigador Nacional Nivel 1 del Sistema Nacional de Investigadores 2016-2019.

Centro, unidad y departamento de adscripción: Centro de Investigación y de Estudios Avanzados del IPN. Unidad Distrito Federal, Departamento de Control Automático.

## 2. Productos de investigación o desarrollo.

### 2.1 Artículos originales de investigación.

#### 2.1.a. *Publicados en extenso en revistas de prestigio internacional con arbitraje estricto.*

- 2.1.a.1. PANTOJA, L.; AGUILAR, C.; ALVAREZ, E.; GARAY A.; SORIA, A. & MARTÍNEZ, J.- “Retroactivity effects dependency on the transcription factors binding mechanisms”. *Journal of Theoretical Biology*. DOI: 10.1016/j.jtbi.2016.08.012. Vol. 410. pp. 77-106. 2016.
- 2.1.a.2. YU, W.; ZAMORA, E. & SORIA, A.- “Ellipsoid SLAM: A Novel Set Membership Method for Simultaneous Localization and Mapping”. *Autonomous Robots*. Vol. 39, N° 3, pp. 1-13. 2015.
- 2.1.a.3. GARRIDO, J.; WEN, Y. & SORIA, A.- “Human Behavior Learning for Robot in Joint Space”. *NeuroComputing*. DOI: 10.1016/j.neucom.2014.12.068, vol. 155, pp. 22-31. 2015.
- 2.1.a.4. SORIA, A.; MARTÍNEZ, J. & AGUILAR, C.- “Experimental evaluation of regulated nonlinear under actuated mechanical systems via saturation-functions-based bounded control: the cart-pendulum system case”. *IET Control Theory and Applications*. Vol. 7, N° 12. pp. 1642-1650. 2013.
- 2.1.a.5. GARRIDO, R. & SORIA A.- “Visual Control of Planar Parallel Robots without using Velocity Measurements”. *Journal of Intelligent & Robotic Systems*. Vol. 66, N° 1-2, pp. 111-124. 2011.
- 2.1.a.6. AGUILAR, C.; MARTÍNEZ J. ; SORIA A. & RUBIO J.- “On the Stabilization of the Inverted-Cart Pendulum Using the Saturation Function Approach”. *Mathematical Problems in Engineering*. Vol. 2011, N° 2011. 2011.
- 2.1.a.7. SORIA, A.; GARRIDO, R. ; VÁSQUEZ, I. & VÁSQUEZ, R.- “Architecture for Rapid Prototyping of Visual Controllers”. *Robotics & Autonomous Systems*. Vol. 54, N° 6, pp. 486-495. 2006.
- 2.1.a.8. GARRIDO, R. & SORIA A.- “Control of a Servo Using Nonlinear Damping”. *Proc. Inst. Mech. Eng. Part I: J. Systems and Control Engineering*. Vol. 219, N° 4, pp. 295-300. 2005.
- 2.1.a.9. GARRIDO, R. & SORIA A.- “Estimating the Gravity Terms in Robot Manipulators for PD Control”. *International Journal of Robotics & Automation*. Vol. 20, N° 3, pp.169-176. 2005.

**2.1.c. Publicados en extenso en memorias de congreso internacional, con arbitraje.**

- 2.1.c.1. PERRUSQUIA, A.; TOVAR, C.; SORIA, A. & MARTÍNEZ, J.- “Robust Controller for Aircraft Roll Control System using Data Flight Parameters”. *Proc. IEEE International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2016)*. Del 28-30 de octubre de 2015. México D.F., México. pp.1-6.
- 2.1.c.2. SERNA, J.; FORY, C.; GONZALEZ, A. & SORIA, A.- “Real-Time Control Platform Based on Free Software and USB Communication”. *Proc. 2016 IEEE Multi-Conference on Systems and Control (MSC 2016)*. Del 26-30 de septiembre de 2016. Cuidada de México, México.
- 2.1.c.3. SORIA, A. & MARTÍNEZ, J.- “A Control Laboratory Prototype for Learning Power Current Amplifier PI Control “. *Proc. IEEE International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2015)*. México D.F., México, pp. 1-6. 28-30 de octubre de 2015.
- 2.1.c.4. GARRIDO, J. ; YU, W. & SORIA, A. “Modular Design and Modelling of an Upper Limb Exoskeleton”. *Proc. IEEE International Conference on Biomedical Robotics and Biomechatronics. (BIOROB 2014)*. São Paulo, Brazil, pp. 508-513. 12-15 de agosto de 2014.
- 2.1.c.5. LUGO, I.; RAMIREZ, M.; MALDONADO, G. ; SORIA, A. & MARTÍNEZ, J.C.- “Metronome Synchronization Using Feedback Control”. *9<sup>th</sup> International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2012)*. Mexico, D.F., México, pp.1-5. 26-28 de septiembre de 2012.
- 2.1.c.6. MARTÍNEZ, J.; AGUILAR, C.; CABELLO, U. & SORIA A.- “Tuning of mathematical models describing synthetic cyclic feedback biocircuits: Combining exact algebraic parameter reconstruction and nonlinear parameter estimation.” *Proc. 20<sup>th</sup> International Symposium on Mathematical Theory of Networks and Systems (MTNS-2012)*. Melbourne, Australia, 9-13 de julio de 2012.
- 2.1.c.7. AGUILAR, C.; MARTÍNEZ, J. & SORIA A.- “Bounded control based on saturation functions of nonlinear underactuated mechanical systems: the cart-pendulum system case”. *Proc. IEEE Conference on Decision and Control and European Control Conference (CDC 2011)*. Orlando Florida, E.U.A., pp. 1759-1764. 12-15 de diciembre de 2011.
- 2.1.c.8. TRUJANO, M.; GARRIDO, R. & SORIA A.- “Visual PID Control of a Redundant Parallel Robot”. *Proc. International Conference on Mechatronic and Embedded Systems and Applications (MESA 2011)*. Washington D.C., E.U.A., 28-31 de agosto 2011.
- 2.1.c.9. TRUJANO, M.; GARRIDO, R. & SORIA A.- “Stable Visual Servoing of an Overactuated Planar Parallel Robot”. *8<sup>th</sup> International Conference on Electrical*

*Engineering, Computing Science and Automatic Control (CCE 2010)*. Tuxtla Gutiérrez, Mexico. 8-10 de septiembre de 2010.

- 2.1.c.10. SORIA A.; GARRIDO, R. & CONCHA A.- "Low Cost Closed loop Identification of a DC Motor". *8<sup>th</sup> International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2010)*. Tuxtla Gutiérrez, Mexico. 8-10 de septiembre de 2010.
- 2.1.c.11. GARRIDO, R.; CANUL E. & SORIA, A.- "Task Space Robot Control using an inner PD Loop". *Proc. 2009 International Conference on Robotics and Automation (ICRA 2009)*. Kobe, Japón. 12-17 de mayo de 2009.
- 2.1.c.12. GARRIDO, R. ; SORIA, A. & TRUJANO, M.- "Stable PID Control of planar Parallel Robot". *International Symposium on Optomechatronic Technologies (ISOT 2008)*. San Diego, California, EUA. 17 al 19 de septiembre de 2008.
- 2.1.c.13. GARRIDO, R. ; CANUL E. & SORIA, A.- "Improving performance of task space Controllers using an inner pd joint controller: an application to visual servoing". *International Symposium on Optomechatronic Technologies (ISOT 2008)*. San Diego, California, EUA. 17 al 19 de septiembre de 2008.
- 2.1.c.14. GARRIDO, R.; SORIA, A. & TRUJANO, M.- "Visual PID Control of a redundant Parallel Robot". *International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2008)*. México D.F., México. 12-14 de noviembre de 2008.
- 2.1.c.15. GARRIDO, R.; CANUL, E. & SORIA, A.- "Task Space Robot Control using an inner PD Loop". *6<sup>th</sup> International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2008)*. México D.F., México. 12-14 de noviembre de 2008.
- 2.1.c.16. RINCON, J.; MARTINEZ, R. & SORIA, A.- "Fault Diagnosis in Nonlinear Systems: An Application to a Three-Tank System ". *American Control Conference (ACC 2008)*. Seattle Washington EUA. 11-13 de junio de 2008.
- 2.1.c.17. GARRIDO, R.; CALDERÓN, D. & SORIA A.- "Speed Control of a DC motor using adaptive fuzzy techniques". *Mexican International Conference on Artificial Intelligence (MICA I 2007)*. Aguascalientes, Ags., México. 4-10 de noviembre de 2007.
- 2.1.c.18. GARRIDO, R.; SORIA A. & LORETO, G.- "Visual Servoing of a Planar Over Actuated Parallel Robot". *Internacional Symposium Optomechatronic Technologies (ISOT2007)*. Lausana, Suiza. 8-10 de octubre de 2007.
- 2.1.c.19. GARRIDO, R.; CALDERÓN, D. & SORIA A.- "Adaptive Fuzzy Control of DC motors". *IEEE 10<sup>th</sup> International Conference on Power Electronics (CIEP 2006)*. Cholula, Pue., México. 16-18 de octubre de 2006.
- 2.1.c.20. LINARES, R.; MEJÍA, P. & SORIA A.- "Toolbox for Real Time Control Task Design using Matlab/simulink". *Memorias del XIV Congreso Internacional de Computación, (CIC 2005)*. México, D.F., México. 5-9 de septiembre de 2005.

- 2.1.c.21. SORIA, A.; CORNEJO, J. & MEJÍA, P.- "Feedback Scheduling of Power-Aware Soft Real-Time Tasks". *Memorias del Encuentro Internacional de Ciencias de la Computación (ENC 2005)*. Puebla, Pue., México. 28-30 de septiembre de 2005.
- 2.1.c.22. SORIA, A. & MEJÍA, P.- "Dynamic Centroid Detection in Outdoor/Indoor Scenes with Different Backgrounds". *Proceedings of the 7th IASTED International Conference on Control and Applications*. 18 a 20 de mayo de 2005. Cancún, Q.R.
- 2.1.c.23. SORIA, A.; GARRIDO, R. & VÁZQUEZ, R.- "Improving Visual Servoing control with High Speed Cameras". *Proc. 1st International Conf. on Electrical and Electronics Engineering (ICEEE 2004)*. Acapulco, Gro., México. 8-10 de septiembre de 2004.
- 2.1.c.24. RANGEL, A.; SORIA, A. & MARTINEZ, J.- "Mixed H2/HINF-Based PID Control Using Genetic Algorithms with Control Energy Constraints". *XI Congreso Latinoamericano de Control Automático (CLCA 2004)*. Ciudad de la Habana, Cuba. 10-15 de mayo del 2004.
- 2.1.c.25. SORIA, A. & GARRIDO, R.- "Robust Centroid Recognition with Application to Visual Servoing of Robot Manipulators". *Congreso Latinoamericano de Control Automático (CLCA 2004)*. Ciudad de la Habana, Cuba. 10-15 de mayo del 2004.
- 2.1.c.26. SORIA, A.; ORTMANN, W.; WIEDERHOLD, P. & GARRIDO, R.- "Dynamic Threshold and Contour Detection: A more Robust Visual Centroid Recognition". *Congreso Latinoamericano de Control Automático (CLCA 2002)*. Guadalajara, Jal., México. 3-6 de diciembre de 2002.
- 2.1.c.27. GARRIDO, R.; SORIA, A.; CASTILLO, P. & VÁSQUEZ, I.- "Visual Servoing Architecture For Controlling Electromechanical Systems." *Proc. of the International Conference on Control Applications (CCA 2001)*. México D.F., México, pp. 35-40. 5-7 de septiembre de 2001.
- 2.1.c.28. GONZÁLEZ, E.; CARVALLO, A. ; GARRIDO, R. & SORIA, A.- "Controlling a video camera tracking a moving object". *Proc. First North America Workshop in Advances in Artificial Perception and Robotics (AAPR 2000)*. Guanajuato, Gto., México, pp. 47-54. 23 al 25 de octubre de 2000.
- 2.1.c.29. SORIA, A.- "Fuzzy Controller Tuning of a Multivariable System Using a Neuro-Fuzzy System". *Proc. of the IEEE International Symposium on Industrial Electronics (ISIE 2000)*. UDLA, Cholula, Pue., México, pp.678-683. 4-8 de diciembre de 2000.
- 2.1.c.30. SORIA, A.; LAFONT J. & BARRET, C.- "Parameter Arrangement in Multivariable FLC-Tuning". *Proceedings of the 6th European Congress on Intelligent Techniques and Soft Computing (EUFIT 98)*. Aachen, Alemania, pp.1082-1085. 7-10 de septiembre de 1998.

- 2.1.c.31. SORIA, A.; LAFONT J. & BARRET, C.- "Tuning of a Decentralized Multivariable Fuzzy Controller". *Proceedings of the 5th European Congress on Intelligent Techniques and Soft Computing (EUFIT 97)*. 8-12 de septiembre de 1997. Aachen, Alemania. pp.965-968.
- 2.1.c.32. SORIA, A.- "Tuning of a Multivariable Fuzzy Controller Using Optimisation Techniques". *Proceedings of the 4th European Congress on Intelligent Techniques and Soft Computing (EUFIT 96)*. Aachen, Alemania, pp.1254-1256. 2-5 de septiembre de 1996.
- 2.1.c.33. LAFONT J.; WOZNIAK, R. & SORIA, A.- "Optimization of dynamical systems". *Proc. of IFIP WG7.6 Working Conference*. Noisy-Le-Grand, Francia, pp. 20-22. 28-30 de mayo de 1996.

**2.1.d. Publicados en extenso en memorias de congreso locales, con arbitraje.**

- 2.1.d.1. SORIA, A.- "Plataforma de enseñanza de control". *Memorias del 2º encuentro Politécnico de Formación y Profesionalización Docente*. Mexico, D.F., pp. 107-109. 2-3 de agosto de 2012.
- 2.1.d.2. SORIA, A.; GARRIDO, R. & MONTES DE OCA C.- "Identificación en lazo cerrado mediante un procesador de bajo costo". *Memorias del 11º Congreso Mexicano de Robótica (COMROB 2009)*. Celaya, Gto. 28 de septiembre-2 de octubre de 2009.
- 2.1.d.3. SORIA, A. & GARRIDO, R. - "Laboratorio de enseñanza de Control en la Maestría en Ciencias del Departamento de Control Automático". *Memorias del 10º Congreso Mexicano de Robótica (COMROB 2008)*. México D.F. 25-26 de septiembre de 2008.
- 2.1.d.4. GARRIDO, R.; SORIA, A. & TRUJANO, M.- "Control Visual de un robot paralelo plano sobreactuado". *Memorias del 10º Congreso Mexicano de Robótica (COMROB 2008)*. México D.F. 25-26 de septiembre de 2008.
- 2.1.d.5. GARRIDO, R.; CALDERÓN, D. & SORIA A.- "Seguimiento adaptable difuso no lineal". *Congreso Nacional de Control Automático (AMCA 2007)*. Monterrey, N.L. 24-26 de octubre de 2007.

**2.3. Capítulos de investigación original en extenso en libros especializados, publicados por una casa editorial reconocida.**

- 2.3.1. TRUJANO, M.; GARRIDO, R. & SORIA, A.- "Sable Visual PID Control of a Redundant Parallel Robot". *PID Control, Implementation and Tuning*. Edited by Tamer Mansour. Intech. ISBN 978-953-307-166-4. 2011.
- 2.3.2. GARRIDO, R.; CANUL E. & SORIA, A.- "Task Space Robot Control Using Joint Proportional Action". *New Trends in Electrical Engineering, Automatic Control, Computing and Communication Sciences*. Edited by Carlos A. Coello, Alexander Poznyak, José Moreno and Vadim Azhmyakov. Logos Verlag, Berlin, Germany. ISBN 978-3-8325-2429-6. 2010.

## 2.6. Publicaciones o productos de investigación o desarrollo dirigidas por el investigador resultado de tesis de maestría o doctorado.

- 2.6.1. TRUJANO, M.; GARRIDO, R. & SORIA A.- “Robust Visual Control of Parallel Robots under Uncertain Camera Orientation”. *International Journal of Advanced Robotic Systems*. DOI: 10.5772/51743, Vol. 9, N° 106. 2012. **Producto de tipo B.2.a.**
- 2.6.2. GARRIDO, R.; CALDERON D.& SORIA A.- “Servomotor Velocity Tracking using Adaptive Fuzzy Techniques”. *Journal of Intelligent and Fuzzy Systems*. Vol. 20 N° 4-5, pp. 201-209. 2009. **Producto de tipo B.2.a.**
- 2.6.3. CALDERÓN, D.; SORIA, A.; GARRIDO, R. & BAROUH, I.- “Adaptive Fuzzy Control of a Second Order Nonlinear Servo”. *Proc. 1st International Conf. on Electrical and Electronics Engineering (ICEEE 2004)*. Acapulco, Gro., México. 8-10 de septiembre de 2004. **Producto de tipo B.2.c.**
- 2.6.4. RANGEL, A. ; LAGUNAS, R. ; SORIA, A. & MARTINEZ, J.- “Mixed  $H_2/H_{\infty}$ -Based PID Control Using Genetic Algorithms: Experimental Evaluation”. *Proc. European Control Conference (ECC 2003)*. Cambridge, UK. 1-4 de septiembre de 2003. **Producto de tipo B.2.c.**
- 2.6.5. CHAVARRIA, M.; SORIA A. & WIEDERHOLD, P.- “Percepción monocular para el control de robots móviles”. *Memorias del Congreso Latinoamericano de Control Automático (CLCA 2002)*. Guadalajara, Jal., México. 3-6 de diciembre de 2002. **Producto de tipo B.2.c.**

## 2.8. Patentes.

### 2.8.c. Nacionales en explotación comercial

- 2.8.1 SORIA A.- “Sistema didáctico para la enseñanza de la teoría de control automático y método de transferencia de datos”. **Patente N° MX 337633 B. Fecha de concesión 9 de abril de 2016. Patente en explotación comercial.**
- 2.8.2 SORIA A.- “Ensamble de servomotor didáctico”. **Patente N° MX 337631 B. Fecha de concesión 9 de abril de 2016. Patente en explotación comercial.**
- 2.8.3 MUÑOZ, C. & SORIA A.- “Sistema de reproducción para guitarra eléctrica con sonido de alta fidelidad y protecciones asistidas por microcontrolador”. **Patente N° MX 320098 B. Fecha de concesión: 14 de mayo de 2014. Patente en explotación comercial.**

NOTA: El trabajo de asesoría correspondiente a la patente MX 320098 B estuvo regido por los lineamientos establecidos por la COPEI<sup>1</sup>, relativos a la

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<sup>1</sup> Véase la p. 3 de las BASES PARA LA CLASIFICACIÓN, PROMOCIÓN Y OTORGAMIENTO DE ESTÍMULOS AL PERSONAL ACADÉMICO DEL CINVESTAV. COMISIÓN DE PROMOCIÓN Y ESTÍMULOS PARA LOS INVESTIGADORES DEL CINVESTAV (COPEI). Centro de Investigación y de Estudios Avanzados del I.P.N. 2015: “...desde su origen, la evaluación ha considerado que, sin menoscabo de los estímulos obtenidos, los

vinculación con el sector productivo nacional. Por lo demás, puesto que dicho trabajo de investigación no corresponde a procedimientos utilizados dentro del CINVESTAV ni se desarrolló por cuenta de éste, no aplica el artículo 163 de la Ley Federal del Trabajo<sup>2</sup>.

### 3. Formación de Recursos Humanos

#### 3.1 Cursos teóricos y/o prácticos.

##### *3.1.a. En programas de posgrado del CINVESTAV-IPN*

- 3.1.a.1. *Introducción a la robótica.* Cuatrimestre 1-2017. Programa de maestría del Departamento de Control Automático. 4 horas por semana. 60 horas.
- 3.1.a.2. *Control Inteligente.* Cuatrimestre C3-2016. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.3. *Introducción a la robótica.* Cuatrimestre 1-2016. Programa de maestría del Departamento de Control Automático. 4 horas por semana. 60 horas.
- 3.1.a.4. *Control Inteligente.* Cuatrimestre 3-2015. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas
- 3.1.a.5. *Teoría de Control IV.* Cuatrimestre 3-2014. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.6. *Teoría de Control IV.* Cuatrimestre 3-2012. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.7. *Introducción a la robótica.* Cuatrimestre 2-2012. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 60 horas.
- 3.1.a.8. *Taller experimental.* Cuatrimestre 1-2012. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.9. *Teoría de Control IV.* Cuatrimestre 3-2011. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.

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investigadores pueden realizar actividades de docencia o asesoría en otras instituciones públicas o privadas, siempre que cumplan con los lineamientos establecidos en estas Bases, con el fin de promover los programas de posgrado y la investigación que se realiza en el Cinvestav y su vinculación con otros sectores.”.

<sup>2</sup> Véase la nota de la p. 11 del reglamento para la Administración de Ingresos Propios del Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional de abril de 2011, donde se lee (el subrayado es mío): “\*Nota: Artículo 163 de la Ley Federal del Trabajo. ‘La atribución de los derechos al nombre y a la propiedad y explotación de las invenciones realizadas en la empresa, se regirá por las normas siguientes: [...] II. Cuando el trabajador se dedique a trabajos de **investigación o de perfeccionamiento de los procedimientos utilizados en la empresa, por cuenta de ésta**, la propiedad de la invención y el derecho a la explotación de la patente corresponderán al patrón.’”



- 3.1.a.10. *Taller experimental*. Cuatrimestre 1-2011. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.11. *Teoría de Control IV*. Cuatrimestre 3-2010. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.12. *Taller experimental*. Cuatrimestre 1-2010. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.13. *Teoría de Control IV*. Cuatrimestre 3-2009. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.14. *Introducción a la robótica*. Cuatrimestre 2-2009. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 60 horas.
- 3.1.a.15. *Taller experimental*. Cuatrimestre 1-2009. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.16. *Introducción a la robótica*. Cuatrimestre 2-2008. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 60 horas.
- 3.1.a.17. *Taller experimental*. Cuatrimestre 1-2008. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.18. *Teoría de Control IV*. Cuatrimestre 3-2007. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.19. *Introducción a la robótica*. Cuatrimestre 2-2007. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 60 horas.
- 3.1.a.20. *Taller experimental*. Cuatrimestre 1-2007. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.21. *Teoría de control IV*. Cuatrimestre 3-2006. Programa de maestría del Departamento de Control Automático. 2 horas por semana. 30 horas.
- 3.1.a.22. *Taller experimental*. Cuatrimestre 1-2006. Programa de maestría del Departamento de Control Automático. 30 horas.
- 3.1.a.23. *Teoría de Control IV*. Cuatrimestre 3-2005. Programa de maestría del Departamento de Control Automático. 20 horas.
- 3.1.a.24. *Taller experimental*. Cuatrimestre 1-2005. Programa de maestría del Departamento de Control Automático. 30 horas.
- 3.1.a.25. *Programación orientada a Objetos*. Cuatrimestre 3-2003. Programa de maestría del Departamento de Control automático. 30 horas.
- 3.1.a.26. *Programación orientada a Objetos*. Cuatrimestre 3-2002. Programa de maestría del Departamento de Control automático. 30 horas.
- 3.1.a.27. *Programación orientada a Objetos*. Cuatrimestre 3-01. Programa de maestría del Departamento de Control automático. 30 horas.

- 3.1.a.28. *Programación orientada a Objetos*. Cuatrimestre 3-00. Programa de maestría del Departamento de Control automático. 30 horas.
- 3.1.a.29. *Robótica*. Cuatrimestre 2-00. Cuatrimestre 2-00. Programa de maestría del Departamento de Control automático. 30 horas.
- 3.1.a.30. *Programación orientada a Objetos*. Cuatrimestre 1-00. Programa de maestría del Departamento de Control automático. 30 horas.

**3.1.b En otros programas externos de nivel superior.**

- 3.1.b.1. *Diseño Lógico*. Trimestre 93I. Licenciatura Ing. Electrónica. Universidad Autónoma Metropolitana-Iztapalapa. 78 horas.
- 3.1.b.2. *Programación de Sistemas I*. Trimestre 93P. Licenciatura Ing. Electrónica. Universidad Autónoma Metropolitana – Iztapalapa. 54 horas.
- 3.1.b.3. *Proyecto de Ingeniería Electrónica I*. Trimestre 93P. Licenciatura Ing. Electrónica. Universidad Autónoma Metropolitana – Iztapalapa. 180 horas.
- 3.1.b.4. *Programación de Sistemas I*. Trimestre 93P. Licenciatura Ing. Electrónica. Universidad Autónoma Metropolitana – Iztapalapa. 54 horas.

**3.2 Dirección de tesis en programas de posgrado del CINVESTAV.**

**3.2.a. De doctorado**

- 3.2.a.1. TRUJANO CABRERA, MIGUEL ANGEL. *Control Visual de Robots Paralelos Planos Redundantes*. Doctorado en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen: 29 de agosto de 2012. Directores de tesis: Rubén Garrido Moctezuma y Alberto Soria López.
- 3.2.a.2. CALDERÓN NEPAMUCENO, DORA MARÍA. *Control difuso adaptable de servomecanismos no lineales*. Doctorado en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen: 31 de enero de 2008. Directores de tesis: Rubén Garrido Moctezuma y Alberto Soria López.

**3.2.b. De maestría**

- 3.2.b.1. ADOLFO PERRUSQUIA GUZMÁN. *Control de Seguimiento de sistemasw Humano-robóticos Basado en Control por Impedancia y Admitancia*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen, 15 agosto de 2016. Directores de Tesis: Wen Yu Lui y Alberto Soria López.
- 3.2.b.2. MIGUEL ANGEL TRUJANO CABRERA. *Control visual de un robot paralelo plano sobreactuado*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen, 25 de julio de 2008. Directores de Tesis: Rubén Garrido Moctezuma y Alberto Soria López.
- 3.2.b.3. LINARES ZAMORA, ROBERTO. *Desarrollo de una interfaz de programación en Matlab para la simulación de tareas de control sobre un kernel de tiempo real*. Maestría en Ciencias, CINVESTAV, Departamento de Ingeniería Eléctrica, Sección de

- Computación. Fecha de examen: 27 de junio de 2006. Directores de tesis: Pedro Mejía Álvarez y Alberto Soria López.
- 3.2.b.4. VÁZQUEZ CERVANTES, RAÚL MARIO. *Visual Servoing con cámara de alta velocidad*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen: 14 de septiembre de 2005. Director de tesis: Alberto Soria López.
  - 3.2.b.5. LÓPEZ MERCADO, JOSÉ LUIS. *Control en posición de servomecanismos de corriente directa*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen: 28 de noviembre de 2005. Director de tesis: Alberto Soria López.
  - 3.2.b.6. MIRANDA GÓMEZ, OSCAR. *Kernel de Tiempo Real para el Control de Procesos*. Maestría en Ciencias, CINVESTAV, Departamento de Ingeniería Eléctrica. Fecha del examen: 16 de marzo 2004. Directores de Tesis: Pedro Mejía Alvarez y Alberto Soria López.
  - 3.2.b.7. RANGEL MERINO, ARTURO. *Sintonización mediante algoritmos genéticos de un controlador PID, con base en la teoría de control combinado  $H_2/H_{inf}$ . Aplicación a un sistema servo-hidráulico*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen: 2 de diciembre de 2003. Director de Tesis: Alberto Soria López.
  - 3.2.b.8. CALDERÓN NEPAMUCENO, DORA MARÍA. *Control Difuso Adaptable de un Servomecanismo No Lineal*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha de examen: 28 de noviembre de 2003. Directores de Tesis: Rubén Garrido Moctezuma y Alberto Soria López.
  - 3.2.b.9. CORNEJO HERRERA, JULIO CÉSAR. *Planificador de Tareas en Tiempo Real con Restricciones de Energía en Retroalimentación*. Maestría en ciencias, CINVESTAV, Departamento de Ingeniería Eléctrica - Sección de Computación. Fecha de Examen: 26 de noviembre de 2002. Directores de Tesis: Pedro Mejía Alvarez y Alberto Soria López.
  - 3.2.b.10. FABILA CHAVARRIA, MARCO. *Percepción visual monocular para el control de robots móviles*. Maestría en Ciencias, CINVESTAV, Departamento de Control Automático. Fecha del examen: 4 septiembre de 2002. Directores de Tesis: Petra Wiederhold y Alberto Soria López.

#### 4. Información correspondiente a los criterios de repercusión académica.

##### 4.2. Tener el promedio internacional de citas para la especialidad en artículos de investigación. No se incluyen autocitas.

Según el Apéndice 4 de las bases COPEI 2015, el promedio internacional de citas para el área de Robótica es de 1.8.

Trabajo	Citas tipo A	Citas tipo B
1.-	2	2
2.-	1	1
3.-	2	2
4.-	4	5
5.-	1	1
6.-	2	2
Promedio de citas Internacionales	2	2.17

##### 4.16. Tener una Patente en explotación comercial.

SORIA A.- “Sistema didáctico para la enseñanza de la teoría de control automático y método de transferencia de datos”. **Patente N° MX 337633 B. Fecha de concesión 9 de abril de 2016. Patente en explotación comercial.**

SORIA A.- “Ensamble de servomotor didáctico”. **Patente N° MX 337631 B. Fecha de concesión 9 de abril de 2016. Patente en explotación comercial.**

De: Ytzel Castillo Torres  
Enviado: viernes, 23 de agosto de 2013 11:29 a.m.  
Para: Marcela Gonzalez Riquelme  
Cc: Lidia Barbosa Fernandez  
Asunto: RE: Consulta desde la SVT

No. Recibo	Fecha Elaboración	Cliente	Depto.	Subtotal	I.V.A.	Total	Concepto	Status	Fecha del depósito
2898	15-Mar-13	UNIVERSIDAD MICHOACANA DE SAN NICOLAS DE HIDALGO	CONTROL AUTOMÁTICO	256,551.68	41,048.32	297,600.00	CUR. Ac/ZAC/SE/2013/000504 VENTA DE PLATAFORMAS DE ENSEÑANZA DE CONTROL P.U. 532,068.96	PAGADO	17 de Mayo de 2013

Ingresos: 256551.68  
Gasto según nuestros registros : 157,628.15  
Disponible : \$98,923.53

Estimada Doctora anexo información  
Saludos cordiales

## REPORTE DE CITAS TIPO A Y B: RESUMEN DE LA BÚSQUEDA

**Tabla 1.** Distribución de citas por año de publicación y número de documento.

PUBLICACIONES EN REVISTAS CIENTÍFICAS				
AÑO PUBLICACION	NO. TRABAJO (DE ACUERDO CON LISTA)	CITAS TIPO A	CITAS TIPO B	CITAS TOTALES
2013	1	2	2	2
2012	2	1	1	2
2012	3	2	3	3
2011	4	4	5	5
2006	5	2	2	8
2005	6	2	2	2
<b>Total</b>		<b>13</b>	<b>15</b>	<b>22</b>

CAPITULO DE LIBRO				
AÑO PUBLICACION	NO. TRABAJO (DE ACUERDO CON LISTA)	CITAS TIPO A	CITAS TIPO B	CITAS TOTALES
2011	1	3	3	3
<b>Total</b>		<b>3</b>	<b>3</b>	<b>3</b>

**CITAS DE ARTÍCULOS ORIGINALES DE INVESTIGACIÓN EN MEMORIAS CONGRESOS INTERNACIONALES, TESIS Y REVISTAS DE INVESTIGACIÓN.**

<b>AÑO PUBLICACION</b>	<b>NO. TRABAJO (DE ACUERDO CON LISTA)</b>	<b>CITAS TIPO A</b>	<b>CITAS TIPO B</b>	<b>CITAS TOTALES</b>
2011	1	2	2	3
2010	2	1	1	1
2009	3	2	2	2
2008	4	2	2	2
2008	5	15	16	16
2007	6	1	1	1
2006	7	2	2	2
2005	8	13	13	13
2004	9	3	3	3
2001	10	7	10	9
<b>Total</b>		<b>48</b>	<b>52</b>	<b>52</b>

**PUBLICACIONES**

<b>AÑO PUBLICACION</b>	<b>NO. TRABAJO (DE ACUERDO CON LISTA)</b>	<b>CITAS TIPO A</b>	<b>CITAS TIPO B</b>	<b>CITAS TOTALES</b>
2012	1	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>

**Tabla 2.** Identificación del índice H

(Tipo A)

INDICE H	CITAS
1	4
2	2
3	2
4	2
5	2
6	1

**Tabla 3.** Identificación del índice H

(Tipo B)

INDICE H	CITAS
1	5
2	3
3	2
4	2
5	2
6	1

**Tabla 4.** Revistas con factor de impacto (2014) donde el investigador publicó sus trabajos

ISSN	NÚM. TRABAJO	REVISTAS	FI ANUAL (2014)	NOTAS
1751-8644	1	IET Contr. Theory Appl.	2.048	
0921-8890	5	Robot. Auton. Syst.	1.256	
0921-0296	2	J. Intell. Robot. Syst.	1.178	
0959-6518	6	Proc. Inst. Mech. Eng. Part I-J Syst Control Eng.	0.778	
1024-123X	4	<i>Math. Probl. Eng.</i>	0.762	
1729-8806	3	<i>Int. J. Adv. Robot. Syst.</i>	0.526	

DR. ALBERTO SORIA LOPEZ  
DEPARTAMENTO DE CONTROL AUTOMATICO  
CINVESTAV-IPN

Total de trabajos publicados: **18**

Total de citas registradas en WoS/Scopus: **134**

Total de citas tipo A: **64**

Total de citas tipo B: **70**

Promedio citas por trabajo publicado - Tipo A: **3.55**

Promedio citas por trabajo publicado - Tipo B: **3.88**

Índice H citas tipo A: **2**

Índice H citas tipo B: **3**

Trabajo tipo B más citado: (Tipo A: Con 4 citas), (Tipo B: Con 5 citas)

*4. AGUILAR, C.; MARTÍNEZ J.; SORIA A. & RUBIO J.- "On the Stabilization of the Inverted-Cart Pendulum Using the Saturation Function Approach". Mathematical Problems in Engineering. Vol. 2011, N° 2011. 14p. 2011.*

Revista con mayor Factor de Impacto (FI): **(2.048)**

*IET Control Theory & Applications*

Fuentes de búsqueda de citas: Colección Web of Science y Scopus.

Período de búsqueda: 2001 - Septiembre 11, 2015.



## Citas de artículos originales de investigación en revistas indizadas.

1. **SORIA, A.;** MARTÍNEZ J. & AGUILAR, C.- "Experimental evaluation of regulated nonlinear under actuated mechanical systems via saturation-functions-based bounded control: the cart-pendulum system case". *IET Control Theory and Applications*. Vol. 7, N°.12. pp. 1642-1650. 2013.

### CITAS A:

#### Record 1 of 2

**Title:** A composite controller for trajectory tracking applied to the Furuta pendulum

**Author(s):** Aguilar-Avelar, C (Aguilar-Avelar, Carlos); Moreno-Valenzuela, J (Moreno-Valenzuela, Javier)

**Source:** ISA TRANSACTIONS **Volume:** 57 **Pages:** 286-294 **DOI:** 10.1016/j.isatra.2015.02.009 **Published:** JUL 2015

**Language:** English

**Document Type:** Article

**ISSN:** 0019-0578

**eISSN:** 1879-2022

---

#### Record 2 of 2

Pawlowski, A., Mendoza, J.L., Guzmán, J.L., Berenguel, M., Ación, F.G., Dormido, S.  
Selective pH and dissolved oxygen control strategy for a raceway reactor within an event-based approach

(2015) *Control Engineering Practice*, 44, art. no. 3329, pp. 209-218.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84939644511&partnerID=40&md5=e3b5b70ff53585163f3b5cd1b9a45e2c>

**DOI:** 10.1016/j.conengprac.2015.08.004

**ISSN:** 09670661

**CODEN:** COEPE

**DOCUMENT TYPE:** Article

**SOURCE:** Scopus

### CITAS B:

#### Record 1 of 2

**Title:** A composite controller for trajectory tracking applied to the Furuta pendulum

**Author(s):** Aguilar-Avelar, C (Aguilar-Avelar, Carlos); Moreno-Valenzuela, J (Moreno-Valenzuela, Javier)

**Source:** ISA TRANSACTIONS **Volume:** 57 **Pages:** 286-294 **DOI:** 10.1016/j.isatra.2015.02.009 **Published:** JUL 2015

**Language:** English

**Document Type:** Article

**ISSN:** 0019-0578

**eISSN:** 1879-2022

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#### Record 2 of 2

Pawlowski, A., Mendoza, J.L., Guzmán, J.L., Berenguel, M., Ación, F.G., Dormido, S.  
Selective pH and dissolved oxygen control strategy for a raceway reactor within an event-based approach

(2015) Control Engineering Practice, 44, art. no. 3329, pp. 209-218.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84939644511&partnerID=40&md5=e3b5b70ff53585163f3b5cd1b9a45e2c>  
DOI: 10.1016/j.conengprac.2015.08.004  
ISSN: 09670661  
CODEN: COEPE  
DOCUMENT TYPE: Article  
SOURCE: [Scopus](#)

2. GARRIDO, R. & **SORIA A.**- "Visual Control of Planar Parallel Robots without using Velocity Measurements". *Journal of Intelligent and Robotic Systems*. Vol. 66, N° 1-2. pp. 111-124. 2012.

**CITAS A:**

**Record 1 of 1**

**Title:** Overcoming Limitations of Uncalibrated Robotics Visual Servoing by means of Sliding Mode Control and Switching Monitoring Scheme

**Author(s):** Oliveira, TR (Oliveira, Tiago Roux); Leite, AC (Leite, Antonio Candea); Peixoto, AJ (Peixoto, Alessandro Jacoud); Hsu, L (Hsu, Liu)

**Source:** ASIAN JOURNAL OF CONTROL **Volume:** 16 **Issue:** 3 **Special Issue:** SI **Pages:** 752-764 **DOI:** 10.1002/asjc.899 **Published:** MAY 2014

**Language:** English

**Document Type:** Article

**ISSN:** 1561-8625

**eISSN:** 1934-6093

**CITAS B:**

**Record 1 of 1**

**Title:** Overcoming Limitations of Uncalibrated Robotics Visual Servoing by means of Sliding Mode Control and Switching Monitoring Scheme

**Author(s):** Oliveira, TR (Oliveira, Tiago Roux); Leite, AC (Leite, Antonio Candea); Peixoto, AJ (Peixoto, Alessandro Jacoud); Hsu, L (Hsu, Liu)

**Source:** ASIAN JOURNAL OF CONTROL **Volume:** 16 **Issue:** 3 **Special Issue:** SI **Pages:** 752-764 **DOI:** 10.1002/asjc.899 **Published:** MAY 2014

**Language:** English

**Document Type:** Article

**ISSN:** 1561-8625

**eISSN:** 1934-6093

3. TRUJANO, M.; GARRIDO, R. & **SORIA A.**- "Robust Visual Control of Parallel Robots under Uncertain Camera Orientation". *International Journal of Advanced Robotic Systems*. Vol. 9, N°.106. DOI: 10.5772/51743. 2012.

**CITAS A:**

**Record 1 of 2**

**Title:** Integral Sliding Mode Control for Helicopter via Disturbance Observer and Quantum Information Technique

**Author(s):** Qu, Q (Qu, Qiang); Chen, FY (Chen, Fuyang); Jiang, B (Jiang, Bin); Tao, G (Tao, Gang)

**Source:** MATHEMATICAL PROBLEMS IN ENGINEERING **Article Number:** 938246 **DOI:** 10.1155/2015/938246 **Published:** 2015

**Language:** English  
**Document Type:** Article  
**ISSN:** 1024-123X  
**eISSN:** 1563-5147

---

**Record 2 of 2**

**Title:** Using a 3DOF Parallel Robot and a Spherical Bat to Hit a Ping-Pong Ball  
**Author(s):** Trasloheros, A (Trasloheros, Alberto); Sebastian, JM (Sebastian, Jose M.); Torrijos, J (Torrijos, Jesus); Carelli, R (Carelli, Ricardo); Roberti, F (Roberti, Flavio)  
**Source:** INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS **Volume:** 11 **DOI:** 10.5772/58526 **Published:** MAY 12 2014  
**Language:** English  
**Document Type:** Article  
**ISSN:** 1729-8806  
**eISSN:** 1729-8814

**CITAS B:**

**Record 1 of 3**

**Title:** Integral Sliding Mode Control for Helicopter via Disturbance Observer and Quantum Information Technique  
**Author(s):** Qu, Q (Qu, Qiang); Chen, FY (Chen, Fuyang); Jiang, B (Jiang, Bin); Tao, G (Tao, Gang)  
**Source:** MATHEMATICAL PROBLEMS IN ENGINEERING **Article Number:** 938246 **DOI:** 10.1155/2015/938246 **Published:** 2015  
**Language:** English  
**Document Type:** Article  
**ISSN:** 1024-123X  
**eISSN:** 1563-5147

---

**Record 2 of 3**

**Title:** Using a 3DOF Parallel Robot and a Spherical Bat to Hit a Ping-Pong Ball  
**Author(s):** Trasloheros, A (Trasloheros, Alberto); Sebastian, JM (Sebastian, Jose M.); Torrijos, J (Torrijos, Jesus); Carelli, R (Carelli, Ricardo); Roberti, F (Roberti, Flavio)  
**Source:** INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS **Volume:** 11 **DOI:** 10.5772/58526 **Published:** MAY 12 2014  
**Language:** English  
**Document Type:** Article  
**ISSN:** 1729-8806  
**eISSN:** 1729-8814

---

**Record 3 of 3**

Trujano, M.A., Garrido, R.  
Robust visual PID control of planar parallel robots under constant disturbances  
(2013) ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), 4  
A, .  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84903461759&partnerID=40&md5=1842a4bc47de7eb431b8f5114e235935>  
**DOI:** 10.1115/IMECE2013-63329  
**ISBN:** 9780791856246  
**DOCUMENT TYPE:** Conference Paper  
**SOURCE:** [Scopus](#)

4. AGUILAR, C.; MARTÍNEZ J.; **SORIA A.** & RUBIO J.- "On the Stabilization of the Inverted-Cart Pendulum Using the Saturation Function Approach". *Mathematical Problems in Engineering*. Vol. 2011, N° 2011. 14p. 2011.

**CITAS A:**

**Record 1 of 4**

**Title:** Design of Robust Adaptive Neural Switching Controller for Robotic Manipulators with Uncertainty and Disturbances

**Author(s):** Yu, L (Yu, Lei); Fei, SM (Fei, Shumin); Sun, LN (Sun, Lining); Huang, J (Huang, Jun); Yang, G (Yang, Gang)

**Source:** JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS **Volume:** 77 **Issue:** 3-4 **Special Issue:** SI **Pages:** 571-581 **DOI:** 10.1007/s10846-013-0008-3 **Published:** MAR 2015

**Language:** English

**Document Type:** Article

**ISSN:** 0921-0296

**eISSN:** 1573-0409

---

**Record 2 of 4**

**Title:** Fuzzy Supervisory Control of a Cart-Pole System

**Author(s):** Li, JH (Li, Jen-Hsing)

**Book Group Author(s):** IEEE

**Source:** 11TH IEEE INTERNATIONAL CONFERENCE ON CONTROL AND AUTOMATION (ICCA) **Book Series:** IEEE International Conference on Control and Automation ICCA **Pages:** 435-439 **Published:** 2014

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 11th IEEE International Conference on Control and Automation (ICCA)

**Conference Date:** JUN 18-20, 2014

**Conference Location:** Taichung, TAIWAN

**ISSN:** 1948-3449

**ISBN:** 978-1-4799-2837-8

---

**Record 3 of 4**

**Title:** Observer Based Quasi-Static Deformation Compensation Control for Three-Link Rigid-Flexible Manipulator

**Author(s):** Liu, J (Liu, Jie); Zhao, B (Zhao, Bo); Li, YC (Li, Yuanchun); Li, YC (Li, Yuanchun)

**Book Group Author(s):** IEEE

**Source:** 2013 IEEE INTERNATIONAL CONFERENCE ON INFORMATION AND AUTOMATION (ICIA) **Pages:** 886-891 **Published:** 2013

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** IEEE International Conference on Information and Automation (ICIA)

**Conference Date:** AUG 26-28, 2013

**Conference Location:** Yinchuan, PEOPLES R CHINA

**ISBN:** 978-1-4799-1334-3

---

**Record 4 of 4**

**Title:** A Model Matching for the Stabilization of the Two Wheels Inverted Pendulum  
**Author(s):** Gutierrez-Frias, OO (Octavio Gutierrez-Frias, O.); Luviano-Juarez, A (Luviano-Juarez, A.)  
**Book Group Author(s):** IEEE  
**Source:** 2012 9TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTING SCIENCE AND AUTOMATIC CONTROL (CCE) **Published:** 2012  
**Language:** English  
**Document Type:** Proceedings Paper  
**Conference Title:** 9th International Conference on Electrical Engineering, Computing Science and Automatic Control  
**Conference Date:** SEP 26-28, 2012  
**Conference Location:** Mexico City, MEXICO  
**ISBN:** 978-1-4673-2168-6

#### CITAS B:

##### Record 1 of 5

**Title:** Design of Robust Adaptive Neural Switching Controller for Robotic Manipulators with Uncertainty and Disturbances  
**Author(s):** Yu, L (Yu, Lei); Fei, SM (Fei, Shumin); Sun, LN (Sun, Lining); Huang, J (Huang, Jun); Yang, G (Yang, Gang)  
**Source:** JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS **Volume:** 77 **Issue:** 3-4 **Special Issue:** SI **Pages:** 571-581 **DOI:** 10.1007/s10846-013-0008-3 **Published:** MAR 2015  
**Language:** English  
**Document Type:** Article  
**ISSN:** 0921-0296  
**eISSN:** 1573-0409

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##### Record 2 of 5

**Title:** Fuzzy Supervisory Control of a Cart-Pole System  
**Author(s):** Li, JH (Li, Jen-Hsing)  
**Book Group Author(s):** IEEE  
**Source:** 11TH IEEE INTERNATIONAL CONFERENCE ON CONTROL AND AUTOMATION (ICCA) **Book Series:** IEEE International Conference on Control and Automation ICCA **Pages:** 435-439 **Published:** 2014  
**Language:** English  
**Document Type:** Proceedings Paper  
**Conference Title:** 11th IEEE International Conference on Control and Automation (ICCA)  
**Conference Date:** JUN 18-20, 2014  
**Conference Location:** Taichung, TAIWAN  
**ISSN:** 1948-3449  
**ISBN:** 978-1-4799-2837-8

---

##### Record 3 of 5

**Title:** Proportional Derivative Control with Inverse Dead-Zone for Pendulum Systems  
**Author(s):** Rubio, JD (de Jesus Rubio, Jose); Zamudio, Z (Zamudio, Zizilia); Pacheco, J (Pacheco, Jaime); Vargas, DM (Mujica Vargas, Dante)  
**Source:** MATHEMATICAL PROBLEMS IN ENGINEERING **Article Number:** 173051 **DOI:** 10.1155/2013/173051 **Published:** 2013  
**Language:** English

**Document Type:** Article  
**ISSN:** 1024-123X  
**eISSN:** 1563-5147

---

**Record 4 of 5**

**Title:** Observer Based Quasi-Static Deformation Compensation Control for Three-Link Rigid-Flexible Manipulator

**Author(s):** Liu, J (Liu, Jie); Zhao, B (Zhao, Bo); Li, YC (Li, Yuanchun); Li, YC (Li, Yuanchun)

**Book Group Author(s):** IEEE

**Source:** 2013 IEEE INTERNATIONAL CONFERENCE ON INFORMATION AND AUTOMATION (ICIA) **Pages:** 886-891 **Published:** 2013

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** IEEE International Conference on Information and Automation (ICIA)

**Conference Date:** AUG 26-28, 2013

**Conference Location:** Yinchuan, PEOPLES R CHINA

**ISBN:** 978-1-4799-1334-3

---

**Record 5 of 5**

**Title:** A Model Matching for the Stabilization of the Two Wheels Inverted Pendulum

**Author(s):** Gutierrez-Frias, OO (Octavio Gutierrez-Frias, O.); Luviano-Juarez, A (Luviano-Juarez, A.)

**Book Group Author(s):** IEEE

**Source:** 2012 9TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTING SCIENCE AND AUTOMATIC CONTROL (CCE) **Published:** 2012

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 9th International Conference on Electrical Engineering, Computing Science and Automatic Control

**Conference Date:** SEP 26-28, 2012

**Conference Location:** Mexico City, MEXICO

**ISBN:** 978-1-4673-2168-6

5. **SORIA, A.;** GARRIDO, R.; VÁSQUEZ, I. & VÁZQUEZ, R.- "Architecture for Rapid Prototyping of Visual Controllers". *Robotics & Autonomous Systems*. Vol. 54 N° 6. pp. 486-495. 2006.

**CITAS A:**

**Record 1 of 2**

**Title:** Plataforma de desarrollo para el control en tiempo real de estructuras cinemáticas con realimentación visual

**Title:** Platform to develop real time visual servoing control in kinematics systems

**Author(s):** González-Rodríguez, René; Hernández-Santana, Luís

**Source:** Ingeniería Mecánica **Volume:** 15 **Issue:** 3 **Pages:** 233-242 **Published:** 12 2012

**Language:** Spanish

**Document Type:** research-article

**ISSN:** 1815-5944

---

**Record 2 of 2**

Moctezuma, R.G., López, A.S., Cabrera, M.T.  
Stable visual PID control of a planar parallel robot  
(2008) Proceedings of SPIE - The International Society for Optical Engineering, 7266, art. no. 72661S, .  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-62549165201&partnerID=40&md5=4b286a294f656a3ae1fcd086a8583a85>  
DOI: 10.1117/12.816232  
ISSN: 0277786X  
CODEN: PSISD  
DOCUMENT TYPE: Conference Paper  
SOURCE: [Scopus](#)

#### CITAS B:

##### Record 1 of 2

**Title:** Plataforma de desarrollo para el control en tiempo real de estructuras cinemáticas con realimentación visual

**Title:** Platform to develop real time visual servoing control in kinematics systems

**Author(s):** González-Rodríguez, René; Hernández-Santana, Luís

**Source:** Ingeniería Mecánica **Volume:** 15 **Issue:** 3 **Pages:** 233-242 **Published:** 12 2012

**Language:** Spanish

**Document Type:** research-article

**ISSN:** 1815-5944

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##### Record 2 of 2

Moctezuma, R.G., López, A.S., Cabrera, M.T.  
Stable visual PID control of a planar parallel robot  
(2008) Proceedings of SPIE - The International Society for Optical Engineering, 7266, art. no. 72661S, .  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-62549165201&partnerID=40&md5=4b286a294f656a3ae1fcd086a8583a85>  
DOI: 10.1117/12.816232  
ISSN: 0277786X  
CODEN: PSISD  
DOCUMENT TYPE: Conference Paper  
SOURCE: [Scopus](#)

6. GARRIDO, R. & **SORIA A.-** "Control of a servomechanism using non-linear damping". *Proc. Inst. Mech. Engrs. Part I: J. Systems and Control Engineering*. Vol. 219, No. 4. pp. 295-300. 2005.

#### CITAS A:

##### Record 1 of 2

**Title:** Composite nonlinear feedback based discrete integral sliding mode controller for uncertain systems

**Author(s):** Mondal, S (Mondal, Sanjoy); Mahanta, C (Mahanta, Chitrallekha)

**Source:** COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION **Volume:** 17 **Issue:** 3 **Pages:** 1320-1331 **DOI:** 10.1016/j.cnsns.2011.08.010 **Published:** MAR 2012

**Language:** English

**Document Type:** Article

**ISSN:** 1007-5704

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##### Record 2 of 2

**Title:** A nonlinear PID control scheme for hard disk drive servosystems

**Author(s):** Isayed, BM (Isayed, Basel M.); Hawwa, MA (Hawwa, Muhammad A.)

**Book Group Author(s):** IEEE

**Source:** 2007 MEDITERRANEAN CONFERENCE ON CONTROL & AUTOMATION, VOLS 1-4 **Pages:** 550-555 **Published:** 2007

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** Mediterranean Conference on Control and Automation

**Conference Date:** JUN 27-29, 2007

**Conference Location:** Athens, GREECE

**ISBN:** 978-1-4244-1281-5

## CITAS B:

### Record 1 of 2

**Title:** Composite nonlinear feedback based discrete integral sliding mode controller for uncertain systems

**Author(s):** Mondal, S (Mondal, Sanjoy); Mahanta, C (Mahanta, Chitralkha)

**Source:** COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION **Volume:** 17 **Issue:** 3 **Pages:** 1320-1331 **DOI:** 10.1016/j.cnsns.2011.08.010 **Published:** MAR 2012

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### Record 2 of 2

**Title:** A nonlinear PID control scheme for hard disk drive servosystems

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**Source:** 2007 MEDITERRANEAN CONFERENCE ON CONTROL & AUTOMATION, VOLS 1-4 **Pages:** 550-555 **Published:** 2007

**Language:** English

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**Conference Title:** Mediterranean Conference on Control and Automation

**Conference Date:** JUN 27-29, 2007

**Conference Location:** Athens, GREECE

**ISBN:** 978-1-4244-1281-5



## Capítulo de libro.

1. TRUJANO, M.; GARRIDO, R. & **SORIA, A.**- "Sable Visual PID Control of a Redundant Parallel Robot". *PID Control, Implementation and Tuning*. Edited by Tamer Mansour. Intech. ISBN 978-953-307-166-4. 2011.

### CITAS A:

#### Record 1 of 3

**Title:** Control of Redundant Joint Structures Using Image Information During the Tracking of Non-Smooth Trajectories

**Author(s):** Lorenzo, G (Lorenzo, Gonzalo); Pomares, J (Pomares, Jorge); Lledo, A (Lledo, Asuncion); Jara, CA (Jara, Carlos A.)

**Source:** JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS **Volume:** 78 **Issue:** 1 **Pages:** 33-46 **DOI:** 10.1007/s10846-014-0069-y **Published:** APR 2015

**Language:** English

**Document Type:** Article

**ISSN:** 0921-0296

**eISSN:** 1573-0409

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#### Record 2 of 3

**Title:** Dynamic Visual Servoing With Chaos Control for Redundant Robots

**Author(s):** Pomares, J (Pomares, Jorge); Perea, I (Perea, Ivan); Torres, F (Torres, Fernando)

**Source:** IEEE-ASME TRANSACTIONS ON MECHATRONICS **Volume:** 19 **Issue:** 2 **Pages:** 423-431 **DOI:** 10.1109/TMECH.2013.2243160 **Published:** APR 2014

**Language:** English

**Document Type:** Article

**ISSN:** 1083-4435

**eISSN:** 1941-014X

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#### Record 3 of 3

**Title:** Direct Visual Servoing of a Redundant Robot with Chaos Compensation

**Author(s):** Pomares, J (Pomares, J.); Perea, I (Perea, I.); Jara, CA (Jara, C. A.); Torres, F (Torres, F.)

**Book Group Author(s):** IEEE

**Source:** 2013 IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS (ICM) **Published:** 2013

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** IEEE International Conference on Mechatronics (ICM)

**Conference Date:** FEB 27-MAR 01, 2013

**Conference Location:** Vicenza, ITALY

**ISBN:** 978-1-4673-1386-5

## CITAS B:

### Record 1 of 3

**Title:** Control of Redundant Joint Structures Using Image Information During the Tracking of Non-Smooth Trajectories

**Author(s):** Lorenzo, G (Lorenzo, Gonzalo); Pomares, J (Pomares, Jorge); Lledo, A (Lledo, Asuncion); Jara, CA (Jara, Carlos A.)

**Source:** JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS **Volume:** 78 **Issue:** 1 **Pages:** 33-46 **DOI:** 10.1007/s10846-014-0069-y **Published:** APR 2015

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**Book Group Author(s):** IEEE

**Source:** 2013 IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS (ICM) **Published:** 2013

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** IEEE International Conference on Mechatronics (ICM)

**Conference Date:** FEB 27-MAR 01, 2013

**Conference Location:** Vicenza, ITALY

**ISBN:** 978-1-4673-1386-5

**Citas de artículos originales de investigación en memorias congresos internacionales, tesis y revistas de investigación.**

1. AGUILAR, C.; MARTÍNEZ, J.C. & **SORIA A.**- "Bounded control based on saturation functions of nonlinear underactuated mechanical systems: the cart-pendulum system case". *Proc. IEEE Conference on Decision and Control and European Control Conference. (CDC 2011)*. Del 12-15 de diciembre de 2011. Orlando Florida, E.U.A. pp. 1759-1764. 2011.

**CITAS A:**

**Record 1 of 2**

**Title:** Partially saturated nonlinear control for gantry cranes with hardware experiments

**Author(s):** Sun, N (Sun, Ning); Fang, YC (Fang, Yongchun)

**Source:** NONLINEAR DYNAMICS **Volume:** 77 **Issue:** 3 **Pages:** 655-666 **DOI:** 10.1007/s11071-014-1328-y **Published:** AUG 2014

**Language:** English

**Document Type:** Article

**ISSN:** 0924-090X

**eISSN:** 1573-269X

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**Record 2 of 2**

**Document Type:** Conference Paper

**Title:** Integral backstepping control for trajectory tracking of a hybrid vehicle

**Author(s):** Colmenares-Vazquez, J.; Marchand, N.; Castillo, P.; Gomez-Balderas, J.E.; Alvarez-Munoz, J.U.; Tellez-Guzman, J.J.

**Source:** 2015 International Conference on Unmanned Aircraft Systems (ICUAS). Proceedings **Pages:** 209-17 **Published:** 2015

**Language:** English

**Classification Codes:** C3360L Aerospace control; C3390C Mobile robots; C3120C Spatial variables control; C1340K Nonlinear control systems

**Standard Book Number:** 978-1-4799-6009-5

**DOI:** 10.1109/ICUAS.2015.7152293

**CITAS B:**

**Record 1 of 2**

**Title:** Partially saturated nonlinear control for gantry cranes with hardware experiments

**Author(s):** Sun, N (Sun, Ning); Fang, YC (Fang, Yongchun)

**Source:** NONLINEAR DYNAMICS **Volume:** 77 **Issue:** 3 **Pages:** 655-666 **DOI:** 10.1007/s11071-014-1328-y **Published:** AUG 2014

**Language:** English

**Document Type:** Article

**ISSN:** 0924-090X

**Record 2 of 2**

**Document Type:** Conference Paper

**Title:** Integral backstepping control for trajectory tracking of a hybrid vehicle

**Author(s):** Colmenares-Vazquez, J.; Marchand, N.; Castillo, P.; Gomez-Balderas, J.E.; Alvarez-Munoz, J.U.; Tellez-Guzman, J.J.

**Source:** 2015 International Conference on Unmanned Aircraft Systems (ICUAS). Proceedings **Pages:** 209-17 **Published:** 2015

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**Classification Codes:** C3360L Aerospace control; C3390C Mobile robots; C3120C Spatial variables control; C1340K Nonlinear control systems

**Standard Book Number:** 978-1-4799-6009-5

**DOI:** 10.1109/ICUAS.2015.7152293

2. **SORIA A.**; GARRIDO, R. & CONCHA, A.- "Low Cost Closed loop Identification of a DC Motor ". *8<sup>th</sup> International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2010)*. Del 8-10 de septiembre de 2010. Tuxtla Gutiérrez, Mexico.

**CITAS A:**

**Record 1 of 1**

**Title:** Simultaneous Identification of Friction and Transfer Function of a DC Servo Positioning System via Simulation

**Author(s):** KWADZOGAH Roger; MISRA Durgamadhab

**Source:** INTERNATIONAL JOURNAL OF INTELLIGENT CONTROL AND SYSTEMS **Volume:** 18 **Issue:** 1 **Pages:** 10-16 **Published:** MAR 2013

**Language:** English

**Document Type:** Article

**ISSN:** 0218-7965

**CITAS B:**

**Record 1 of 1**

**Title:** Simultaneous Identification of Friction and Transfer Function of a DC Servo Positioning System via Simulation

**Author(s):** KWADZOGAH Roger; MISRA Durgamadhab

**Source:** INTERNATIONAL JOURNAL OF INTELLIGENT CONTROL AND SYSTEMS **Volume:** 18 **Issue:** 1 **Pages:** 10-16 **Published:** MAR 2013

**Language:** English

**Document Type:** Article

**ISSN:** 0218-7965

3. GARRIDO, R.; CANUL E. & **SORIA, A.**- "Task Space Robot Control using an inner PD Loop". *Proc. 2009 International Conference on Robotics and Automation*. Del 12 al 17 de mayo de 2009, Kobe Japón.

**CITAS A:**

**Record 1 of 2**

**Title:** An Analysis of the Operational Space Control of Robots

**Author(s):** Ngoc, DV (Ngoc Dung Vuong); Ang, MH (Ang, Marcelo H., Jr.); Lim, TM (Lim, Tao Ming); Lim, SY (Lim, Ser Yong)

**Book Group Author(s):** IEEE

**Edited by:** Rakotondrabe M; Ivan IA

**Source:** 2010 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (ICRA) **Book Series:** IEEE International Conference on Robotics and Automation ICRA **Pages:** 4163-4168 **Published:** 2010

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** IEEE International Conference on Robotics and Automation (ICRA)

**Conference Date:** MAY 03-08, 2010

**Conference Location:** Anchorage, AK

**ISSN:** 1050-4729

**ISBN:** 978-1-4244-5040-4

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**Record 2 of 2**

**Title:** *Improved Operational Space Control Framework for Compliant Motion of Robotic Manipulators*

**Author(s):** VUONG, N.

**Source:** *Improved Operational Space Control Framework for Compliant Motion of Robotic Manipulators* / NATIONAL UNIVERSITY OF SINGAPORE **Pages:** 1-127 **Published:** 2010

**Language:** English

**Document Type:** Tesis doctoral

**CITAS B:**

**Record 1 of 2**

**Title:** An Analysis of the Operational Space Control of Robots

**Author(s):** Ngoc, DV (Ngoc Dung Vuong); Ang, MH (Ang, Marcelo H., Jr.); Lim, TM (Lim, Tao Ming); Lim, SY (Lim, Ser Yong)

**Book Group Author(s):** IEEE

**Edited by:** Rakotondrabe M; Ivan IA

**Source:** 2010 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (ICRA) **Book Series:** IEEE International Conference on Robotics and Automation ICRA **Pages:** 4163-4168 **Published:** 2010

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** IEEE International Conference on Robotics and Automation (ICRA)

**Conference Date:** MAY 03-08, 2010

**Conference Location:** Anchorage, AK

**ISSN:** 1050-4729

**ISBN:** 978-1-4244-5040-4

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**Record 2 of 2**

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**Author(s):** VUONG, N.

**Source:** *Improved Operational Space Control Framework for Compliant Motion of Robotic Manipulators* / NATIONAL UNIVERSITY OF SINGAPORE **Pages:** 1-127 **Published:** 2010

**Language:** English

**Document Type:** Tesis doctoral

4. GARRIDO, R.; **SORIA, A.** & TRUJANO, M.- "Visual PID Control of a redundant Parallel Robot". *Procs. International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2008)*. Del 12 al 14 de noviembre de 2008, México D.F.

**CITAS A:**

**Record 1 of 2**

Kawai, H., Hashimoto, R., Suzuki, R., Kobayashi, N.  
Visual feedback PID control for 2DOF parallel link manipulator  
(2012) Nihon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 78 (794), pp. 3515-3528.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84869014154&partnerID=40&md5=a76f1f4ced58a347f12199cfa386bfda>  
DOI: 10.1299/kikaic.78.3515  
ISSN: 03875024  
CODEN: NKCHD  
DOCUMENT TYPE: Article  
SOURCE: Scopus

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**Record 2 of 2**

**Title:** RBF Neural Network Identifying & Sliding Mode Control of a 2-DOF Parallel Robot  
**Author(s):** CHEN, H. & GAO, G. N.-  
**Source:** *Machine Tool & Hydraulics* **Volume:** 39 **Issue:** 7 **Published:** Aug 9 2011  
**Language:** English  
**Document Type:** Article  
**ISSN:** 1001-3881

**CITAS B:**

**Record 1 of 2**

Kawai, H., Hashimoto, R., Suzuki, R., Kobayashi, N.  
Visual feedback PID control for 2DOF parallel link manipulator  
(2012) Nihon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 78 (794), pp. 3515-3528.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84869014154&partnerID=40&md5=a76f1f4ced58a347f12199cfa386bfda>  
DOI: 10.1299/kikaic.78.3515  
ISSN: 03875024  
CODEN: NKCHD  
DOCUMENT TYPE: Article  
SOURCE: Scopus

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**Record 2 of 2**

**Title:** RBF Neural Network Identifying & Sliding Mode Control of a 2-DOF Parallel Robot  
**Author(s):** CHEN, H. & GAO, G. N.-  
**Source:** *Machine Tool & Hydraulics* **Volume:** 39 **Issue:** 7 **Published:** Aug 9 2011  
**Language:** English  
**Document Type:** Article  
**ISSN:** 1001-3881

5. RINCON, J.; MARTINEZ, R. & **SORIA, A.**- "Fault Diagnosis in Nonlinear Systems: An Application to a Three-Tank System". *Procs. American Control Conference, ACC 2008*. Del 11 al 13 de junio de 2008, Seattle Washington EUA. pp. 2134-2141. 2008.

**CITAS A:**

**Record 1 of 15**

**Title:** Advanced embedded nonlinear observer design and HIL validation using a Takagi-Sugeno approach with unmeasurable premise variables

**Author(s):** Olteanu, SC (Olteanu, S. C.); Aitouche, A (Aitouche, A.); Belkoura, L (Belkoura, L.)

**Book Group Author(s):** IOP

**Source:** EUROPEAN WORKSHOP ON ADVANCED CONTROL AND DIAGNOSIS, PTS 1-8 **Book**

**Series:** Journal of Physics Conference Series **Volume:** 570 **Article Number:** 022003 **DOI:** 10.1088/1742-6596/570/2/022003 **Published:** 2014

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 11th European Workshop on Advanced Control and Diagnosis (ACD)

**Conference Date:** NOV 13-14, 2014

**Conference Location:** Berlin, GERMANY

**Conference Host:** HTW Berlin, Sch Engn I, Control Grp

**ISSN:** 1742-6588

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**Record 2 of 15**

**Title:** Fault Estimation for a Quad-Rotor MAV Using a Polynomial Observer

**Author(s):** Aguilar-Sierra, H (Aguilar-Sierra, Hipolito); Flores, G (Flores, Gerardo); Salazar, S (Salazar, Sergio); Lozano, R (Lozano, Rogelio)

**Source:** JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS **Volume:** 73 **Issue:** 1-4 **Special Issue:** SI **Pages:** 455-468 **DOI:** 10.1007/s10846-013-9924-5 **Published:** JAN 2014

**Language:** English

**Document Type:** Article

**ISSN:** 0921-0296

**eISSN:** 1573-0409

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**Record 3 of 15**

**Title:** Fault Estimation For a Quad-rotor MAV Using a Polynomial Observer

**Author(s):** Aguilar-Sierra, H (Aguilar-Sierra, H.); Flores, G (Flores, Gerardo); Salazar, S (Salazar, S.); Lozano, R (Lozano, R.)

**Book Group Author(s):** IEEE

**Source:** 2013 INTERNATIONAL CONFERENCE ON UNMANNED AIRCRAFT SYSTEMS (ICUAS) **Book Series:** International Conference on Unmanned Aircraft Systems **Pages:** 717-724 **Published:** 2013

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** International Conference on Unmanned Aircraft Systems (ICUAS)

**Conference Date:** MAY 28-31, 2013

**Conference Location:** Atlanta, GA

**ISSN:** 2373-6720

**ISBN:** 978-1-4799-0817-2; 978-1-4799-0815-8

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**Record 4 of 15**

**Title:** An observer based approach for achieving fault diagnosis and fault tolerant control of systems modeled as hybrid Petri nets

**Author(s):** Renganathan, K (Renganathan, K.); Bhaskar, V (Bhaskar, VidhyaCharan)

**Source:** ISA TRANSACTIONS **Volume:** 50 **Issue:** 3 **Pages:** 443-453 **DOI:** 10.1016/j.isatra.2011.03.001 **Published:** JUL 2011

**Language:** English

**Document Type:** Article

**ISSN:** 0019-0578

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**Record 5 of 15**

**Title:** Real-time fault-voltage estimation for nonlinear dynamic power systems.

**Author(s):** THABET, M.; BOUTAYEB & ABDELKRIM, M.

**Source:** *International Journal of Adaptive Control and Signal Processing* **DOI:** 10.1002/acs.2592. **Published:** JUL 2015

**Language:** English

**Document Type:** Article

**ISSN:** 0019-0578

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**Record 6 of 15**

**Title:** Diagnosability test for nonlinear systems using the characteristic set

**Author(s):** Zhang, JF (Zhang Jiafan); Liu, X (Liu Xiang)

**Edited by:** Qi L

**Source:** 2009 ASIA-PACIFIC CONFERENCE ON INFORMATION PROCESSING (APCIP 2009), VOL 1, PROCEEDINGS **Pages:** 207-210 **DOI:** 10.1109/APCIP.2009.59 **Published:** 2009

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** Asia-Pacific Conference on Information Processing (APCIP 2009)

**Conference Date:** JUL 14-19, 2009

**Conference Location:** Shenzhen, PEOPLES R CHINA

**ISBN:** 978-0-7695-3699-6

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**Record 7 of 15**

**Title:** Fault-tolerant Control Systems: Design and Practical Applications

**Author(s):** Noura, H (Noura, H); Theilliol, D (Theilliol, D); Ponsart, JC (Ponsart, JC); Chamseddine, A (Chamseddine, A)

**Source:** FAULT-TOLERANT CONTROL SYSTEMS: DESIGN AND PRACTICAL APPLICATIONS **Book Series:** Advances in Industrial Control **Pages:** 1-231 **DOI:** 10.1007/978-1-84882-653-3 **Published:** 2009

**Language:** English

**Document Type:** Book

**ISSN:** 1430-9491

**ISBN:** 978-1-84882-652-6

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**Record 8 of 15**

**Title:** State estimation of the three-tank system using a multiple model

**Author(s):** Nagy, AM (Nagy, Anca Maria); Marx, B (Marx, Benoit); Mourot, G (Mourot, Gilles); Schutz, G



(Schutz, Georges); Ragot, J (Ragot, Jose)

**Book Group Author(s):** IEEE

**Source:** PROCEEDINGS OF THE 48TH IEEE CONFERENCE ON DECISION AND CONTROL, 2009 HELD JOINTLY WITH THE 2009 28TH CHINESE CONTROL CONFERENCE (CDC/CCC 2009) **Book Series:** IEEE Conference on Decision and Control **Pages:** 7795-7800 **DOI:** 10.1109/CDC.2009.5400889 **Published:** 2009

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** Joint 48th IEEE Conference on Decision and Control (CDC) / 28th Chinese Control Conference (CCC)

**Conference Date:** DEC 15-18, 2009

**Conference Location:** Shanghai, PEOPLES R CHINA

**ISSN:** 0191-2216

**ISBN:** 978-1-4244-3872-3

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#### **Record 9 of 15**

**Document Type:** Conference Paper

**Title:** The fault diagnosis problem: A comparative study based on dedicated observers and unknown inputs observers

**Author(s):** Cortes Vega, D.; Anzurez Marin, J.; Ramirez Zavala, S.

**Source:** 2014 IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC)

**Pages:** 6 pp. **Published:** 2014

**Conference Information:** 2014 IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC)  
Ixtapa, Mexico, 5-7 Nov. 2014

**Language:** English

**Standard Book Number:** 978-1-4799-5683-8

**DOI:** 10.1109/ROPEC.2014.7036304

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#### **Record 10 of 15**

**Document Type:** Conference Paper

**Title:** Fault diagnosis for dynamic power system

**Author(s):** Thabet, A.; Boutayeb, M.; Didier, G.; Chniba, S.; Abdelkrim, M.N.

**Source:** 2011 8th International Multi-Conference on Systems, Signals and Devices (SSD 2011) **Pages:** 7 pp. **Published:** 2011

**Conference Information:** 2011 8th International Multi-Conference on Systems, Signals and Devices (SSD 2011)

Sousse, Tunisia, 22-25 March 2011  
QUNDIS Adv. Meas. Sol.

**Language:** English

**Standard Book Number:** 978-1-4577-0413-0

**DOI:** 10.1109/SSD.2011.5767361

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#### **Record 11 of 15**

**Title:** *Fault detection in nonlinear systems: An observer-based approach*

**Author(s):** VUONG, N.

**Source:** *Fault detection in nonlinear systems: An observer-based approach* / Universit"at Duisburg-Essen **Pages:** 1-133 **Published:** 2010

**Language:** English  
**Document Type:** Tesis doctoral

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**Record 12 of 15**

**Title:** Event Based Modeling and Estimation Techniques for Fault Diagnosis and Fault Tolerant Control of Systems

**Author(s):** RENGANATHAN K

**Source:** Event Based Modeling and Estimation Techniques for Fault Diagnosis and Fault Tolerant Control of Systems / SRM University **Pages:** 1-217 **Published:** 2011

**Language:** English

**Document Type:** Tesis doctoral

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**Record 13 of 15**

**Title:** Residual Generator of A ship electric Propulsion System

**Author(s):** DALLAGI, H.; MECHMECHE, C. & BRAIEK, N.-

**Source:** *Advanced Shipping and Ocean Engineering* **Volume:** 2 **Issue:** 2 **Pages:** 65-76 **Published:** JUN 2013

**Language:** English

**Document Type:** Article

**ISSN:**

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**Record 14 of 15**

**Title:** Fault Detection Base on Observer for Nonlinear Dynamic Power System

**Author(s):** THABET, A.; MOUTAYEB, M.; DIDIER, G.; CHNIBA, S. & ABDELKRIM, M.-

**Source:** *Energy and Power* **Volume:** 2 **Issue:** 2 **Pages:** 9-16 **Published:** 2012

**Language:** English

**Document Type:** Article

**ISSN:** 2163-159X

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**Record 15 of 15**

Flores-Colunga, G.R., Aguilar-Sierra, H., Lozano, R., Salazar, S.

Fault estimation and control for a quad-rotor MAV using a polynomial observer. Part I: Fault detection (2014) *Advances in Intelligent Systems and Computing*, 252, pp. 151-170.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84924608702&partnerID=40&md5=3cff6b77dda7b77380026768e8c66479)

[84924608702&partnerID=40&md5=3cff6b77dda7b77380026768e8c66479](http://www.scopus.com/inward/record.url?eid=2-s2.0-84924608702&partnerID=40&md5=3cff6b77dda7b77380026768e8c66479)

DOI: 10.1007/978-3-319-03413-3\_11

ISSN: 21945357

ISBN: 9783319034126

DOCUMENT TYPE: Conference Paper

SOURCE: **Scopus**

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**CITAS B:**

**Record 1 of 16**

**Title:** Advanced embedded nonlinear observer design and HIL validation using a Takagi-Sugeno approach with unmeasurable premise variables

**Author(s):** Olteanu, SC (Olteanu, S. C.); Aitouche, A (Aitouche, A.); Belkoura, L (Belkoura, L.)

**Book Group Author(s):** IOP

**Source:** EUROPEAN WORKSHOP ON ADVANCED CONTROL AND DIAGNOSIS, PTS 1-8 **Book**

**Series:** Journal of Physics Conference Series **Volume:** 570 **Article Number:** 022003 **DOI:**

10.1088/1742-6596/570/2/022003 **Published:** 2014

**Language:** English  
**Document Type:** Proceedings Paper  
**Conference Title:** 11th European Workshop on Advanced Control and Diagnosis (ACD)  
**Conference Date:** NOV 13-14, 2014  
**Conference Location:** Berlin, GERMANY  
**Conference Host:** HTW Berlin, Sch Engn I, Control Grp  
**ISSN:** 1742-6588

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**Record 2 of 16**

**Title:** Fault Estimation for a Quad-Rotor MAV Using a Polynomial Observer  
**Author(s):** Aguilar-Sierra, H (Aguilar-Sierra, Hipolito); Flores, G (Flores, Gerardo); Salazar, S (Salazar, Sergio); Lozano, R (Lozano, Rogelio)  
**Source:** JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS **Volume:** 73 **Issue:** 1-4 **Special Issue:** SI **Pages:** 455-468 **DOI:** 10.1007/s10846-013-9924-5 **Published:** JAN 2014  
**Language:** English  
**Document Type:** Article  
**ISSN:** 0921-0296  
**eISSN:** 1573-0409

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**Record 3 of 16**

**Title:** Fault Estimation For a Quad-rotor MAV Using a Polynomial Observer  
**Author(s):** Aguilar-Sierra, H (Aguilar-Sierra, H.); Flores, G (Flores, Gerardo); Salazar, S (Salazar, S.); Lozano, R (Lozano, R.)  
**Book Group Author(s):** IEEE  
**Source:** 2013 INTERNATIONAL CONFERENCE ON UNMANNED AIRCRAFT SYSTEMS (ICUAS) **Book Series:** International Conference on Unmanned Aircraft Systems **Pages:** 717-724 **Published:** 2013  
**Language:** English  
**Document Type:** Proceedings Paper  
**Conference Title:** International Conference on Unmanned Aircraft Systems (ICUAS)  
**Conference Date:** MAY 28-31, 2013  
**Conference Location:** Atlanta, GA  
**ISSN:** 2373-6720  
**ISBN:** 978-1-4799-0817-2; 978-1-4799-0815-8

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**Record 4 of 16**

**Title:** An observer based approach for achieving fault diagnosis and fault tolerant control of systems modeled as hybrid Petri nets  
**Author(s):** Renganathan, K (Renganathan, K.); Bhaskar, V (Bhaskar, VidhyaCharan)  
**Source:** ISA TRANSACTIONS **Volume:** 50 **Issue:** 3 **Pages:** 443-453 **DOI:** 10.1016/j.isatra.2011.03.001 **Published:** JUL 2011  
**Language:** English  
**Document Type:** Article  
**ISSN:** 0019-0578

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**Record 5 of 14**

**Title:** Real-time fault-voltage estimation for nonlinear dynamic power systems.

**Author(s):** THABET, M.; BOUTAYEB & ABDELKRIM, M.

**Source:** *International Journal of Adaptive Control and Signal Processing* **DOI:** 10.1002/acs.2592. **Published:** JUL 2015

**Language:** English

**Document Type:** Article

**ISSN:** 0019-0578

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**Record 6 of 16**

**Title:** Diagnosability test for nonlinear systems using the characteristic set

**Author(s):** Zhang, JF (Zhang Jiafan); Liu, X (Liu Xiang)

**Edited by:** Qi L

**Source:** 2009 ASIA-PACIFIC CONFERENCE ON INFORMATION PROCESSING (APCIP 2009), VOL 1, PROCEEDINGS **Pages:** 207-210 **DOI:** 10.1109/APCIP.2009.59 **Published:** 2009

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** Asia-Pacific Conference on Information Processing (APCIP 2009)

**Conference Date:** JUL 14-19, 2009

**Conference Location:** Shenzhen, PEOPLES R CHINA

**ISBN:** 978-0-7695-3699-6

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**Record 7 of 16**

**Title:** Fault-tolerant Control Systems: Design and Practical Applications

**Author(s):** Noura, H (Noura, H); Theilliol, D (Theilliol, D); Ponsart, JC (Ponsart, JC); Chamseddine, A (Chamseddine, A)

**Source:** FAULT-TOLERANT CONTROL SYSTEMS: DESIGN AND PRACTICAL APPLICATIONS **Book Series:** Advances in Industrial Control **Pages:** 1-231 **DOI:** 10.1007/978-1-84882-653-3 **Published:** 2009

**Language:** English

**Document Type:** Book

**ISSN:** 1430-9491

**ISBN:** 978-1-84882-652-6

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**Record 8 of 16**

**Title:** State estimation of the three-tank system using a multiple model

**Author(s):** Nagy, AM (Nagy, Anca Maria); Marx, B (Marx, Benoit); Mourot, G (Mourot, Gilles); Schutz, G (Schutz, Georges); Ragot, J (Ragot, Jose)

**Book Group Author(s):** IEEE

**Source:** PROCEEDINGS OF THE 48TH IEEE CONFERENCE ON DECISION AND CONTROL, 2009 HELD JOINTLY WITH THE 2009 28TH CHINESE CONTROL CONFERENCE (CDC/CCC 2009) **Book Series:** IEEE Conference on Decision and Control **Pages:** 7795-7800 **DOI:** 10.1109/CDC.2009.5400889 **Published:** 2009

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** Joint 48th IEEE Conference on Decision and Control (CDC) / 28th Chinese Control Conference (CCC)

**Conference Date:** DEC 15-18, 2009

**Conference Location:** Shanghai, PEOPLES R CHINA

ISSN: 0191-2216

ISBN: 978-1-4244-3872-3

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**Record 9 of 16**

**Document Type:** Conference Paper

**Title:** The fault diagnosis problem: A comparative study based on dedicated observers and unknown inputs observers

**Author(s):** Cortes Vega, D.; Anzures Marin, J.; Ramirez Zavala, S.

**Source:** 2014 IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC)

**Pages:** 6 pp. **Published:** 2014

**Conference Information:** 2014 IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC)

Ixtapa, Mexico, 5-7 Nov. 2014

**Language:** English

**Standard Book Number:** 978-1-4799-5683-8

**DOI:** 10.1109/ROPEC.2014.7036304

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**Record 10 of 16**

**Document Type:** Conference Paper

**Title:** Fault diagnosis for dynamic power system

**Author(s):** Thabet, A.; Boutayeb, M.; Didier, G.; Chniba, S.; Abdelkrim, M.N.

**Source:** 2011 8th International Multi-Conference on Systems, Signals and Devices (SSD 2011) **Pages:** 7 pp. **Published:** 2011

**Conference Information:** 2011 8th International Multi-Conference on Systems, Signals and Devices (SSD 2011)

Sousse, Tunisia, 22-25 March 2011

QUNDIS Adv. Meas. Sol.

**Language:** English

**Standard Book Number:** 978-1-4577-0413-0

**DOI:** 10.1109/SSD.2011.5767361

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**Record 11 of 16**

**Title:** *Fault detection in nonlinear systems: An observer-based approach*

**Author(s):** ABID, M.

**Source:** *Fault detection in nonlinear systems: An observer-based approach* / Universit  at Duisburg-Essen **Pages:** 1-133 **Published:** 2010

**Language:** English

**Document Type:** Tesis doctoral

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**Record 12 of 16**

**Title:** Event Based Modeling and Estimation Techniques for Fault Diagnosis and Fault Tolerant Control of Systems

**Author(s):** RENGANATHAN K

**Source:** Event Based Modeling and Estimation Techniques for Fault Diagnosis and Fault Tolerant Control of Systems / SRM University **Pages:** 1-217 **Published:** 2011

**Language:** English

**Document Type:** Tesis doctoral

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**Record 13 of 16**

**Title:** Residual Generator of A ship electric Propulsion System

**Author(s):** DALLAGI, H.; MECHMECHE, C. & BRAIEK, N.-

**Source:** *Advanced Shipping and Ocean Engineering* **Volume:** 2 **Issue:** 2 **Pages:** 65-76 **Published:** JUN 2013

**Language:** English

**Document Type:** Article

**ISSN:**

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**Record 14 of 16**

**Title:** Fault Detection Base on Observer for Nonlinear Dynamic Power System

**Author(s):** THABET, A.; MOUTAYEB, M.; DIDIER, G.; CHNIBA, S. & ABDELKRIM, M.-

**Source:** *Energy and Power* **Volume:** 2 **Issue:** 2 **Pages:** 9-16 **Published:** 2012

**Language:** English

**Document Type:** Article

**ISSN:** 2163-159X

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**Record 15 of 16**

Flores-Colunga, G.R., Aguilar-Sierra, H., Lozano, R., Salazar, S.

Fault estimation and control for a quad-rotor MAV using a polynomial observer. Part I: Fault detection (2014) *Advances in Intelligent Systems and Computing*, 252, pp. 151-170.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84924608702&partnerID=40&md5=3cff6b77dda7b77380026768e8c66479)

[84924608702&partnerID=40&md5=3cff6b77dda7b77380026768e8c66479](http://www.scopus.com/inward/record.url?eid=2-s2.0-84924608702&partnerID=40&md5=3cff6b77dda7b77380026768e8c66479)

DOI: 10.1007/978-3-319-03413-3\_11

ISSN: 21945357

ISBN: 9783319034126

DOCUMENT TYPE: Conference Paper

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Mata-Machuca, J.L., Martínez-Guerra, R., Aguilar-Sierra, H.

Fault estimation using a polynomial observer: A real-time application

(2012) *IFAC Proceedings Volumes (IFAC-PapersOnline)*, 8 (PART 1), pp. 552-557.

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[84867082208&partnerID=40&md5=ec45d871343b53c44c13507bb8e74640](http://www.scopus.com/inward/record.url?eid=2-s2.0-84867082208&partnerID=40&md5=ec45d871343b53c44c13507bb8e74640)

DOI: 10.3182/20120829-3-MX-2028.00236

ISSN: 14746670

ISBN: 9783902823090

DOCUMENT TYPE: Conference Paper

SOURCE: [Scopus](#)

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6. GARRIDO, R.; **SORIA A.** & LORETO, G.- "Visual Servoing of a Planar Over Actuated Parallel Robot". *Internacional Symposium Optomechatronic Technologies*. ISOT 2007. Del 8 a 10 de octubre de 2007. Lausana, Suiza.

**CITAS A:****Record 1 of 1**

**Title:** Diagnosability test for nonlinear systems using the characteristic set

**Author(s):** Zhang, JF (Zhang Jiafan); Liu, X (Liu Xiang)

**Edited by:** Qi L

**Source:** *Proc. 8<sup>th</sup> World Congress on Intelligent Control and Automation*. **Pages:** 379-384 **DOI:** 10.1109/APCIP.2009.59 **Published:** 2010

**Document Type:** Proceedings Paper

**Conference Title:** World Congress on Intelligent Control and Automation Proceedings of the 8th July 6-9 2010, Jinan, China

**Conference Date:** JUL 6-9, 2010

**Conference Location:** Jinan, CHINA

**ISBN:** 978-1-4244-6712-9

#### CITAS B:

##### Record 1 of 1

**Title:** Diagnosability test for nonlinear systems using the characteristic set

**Author(s):** Zhang, JF (Zhang Jiafan); Liu, X (Liu Xiang)

**Edited by:** Qi L

**Source:** *Proc. 8<sup>th</sup> World Congress on Intelligent Control and Automation*. **Pages:** 379-384 **DOI:** 10.1109/APCIP.2009.59

**Document Type:** Proceedings Paper

**Conference Title:** World Congress on Intelligent Control and Automation Proceedings of the 8th July 6-9 2010, Jinan, China

**Conference Date:** JUL 6-9, 2010

**Conference Location:** Jinan, CHINA

**ISBN:** 978-1-4244-6712-9

7. GARRIDO, R.; CALDERÓN, D. & **SORIA A.**- "Adaptive Fuzzy Control of DC motors". *IEEE 10<sup>th</sup> International Conference on Power Electronics CIEP 2006*. 16 a 18 de octubre de 2006. Cholula, Pue.

#### CITAS A:

##### Record 1 of 2

**Title:** An improved Direct Adaptive Fuzzy controller for an uncertain DC Motor Speed Control System

**Author(s):** QUACH, D.; HUANG, S; YIN, H. & ZHOU, C.-

**Source:** *Telkomnika, Indonesian Journal of Electrical Engineering*. **Volume:** 11 **Issue:** 2 **Pages:** 1083-1092 **DOI:** 10.11591/telkomnika.v11i2.1861 **Published:** 2013

**Language:** English

**Document Type:** Article

**ISSN:** 2302-4046

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##### Record 2 of 2

**Title:** Design of Self-Correcting Fuzzy Controller in Electro-Pneumatic Unit Based on DSP

**Author(s):** WANG, H; WEI H. & LI Y.

**Source:** *Machine Tools and Hydraulics* **Volume:** 38 **Issue:** 24 **Pages:** 69-71 **DOI:** 10.3969/j.issn.1001-3881.2010.24.025 **Published:** 2010

**Language:** English

**Document Type:** Article

**ISSN:** 1001-3881

#### CITAS B:

##### Record 1 of 2

**Title:** An improved Direct Adaptive Fuzzy controller for an uncertain DC Motor Speed Control System

**Author(s):** QUACH, D.; HUANG, S;YIN, H. & ZHOU, C.-

**Source:** *Telkomnika, Indonesian Journal of Electrical Engineering.* **Volume:** 11 **Issue:** 2 **Pages:** 1083-1092 **DOI:** 10.11591/telkomnika.v11i2.1861 **Published:** 2013

**Language:** English

**Document Type:** Article

**ISSN:** 2302-4046

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**Record 2 of 2**

**Title:** Design of Self-Correcting Fuzzy Controller in Electro-Pneumatic Unit Based on DSP

**Author(s):** WANG, H; WEI H. & LI Y.

**Source:** *Machine Tools and Hydraulics* **Volume:** 38 **Issue:** 24 **Pages:** 69-71 **DOI:** 10.3969/j.issn.1001-3881.2010.24.025 **Published:** 2010

**Language:** English

**Document Type:** Article

**ISSN:** 1001-3881

8. **SORIA-LOPEZ, A.**; MEJÍA-ALVAREZ, P.- & CORNEJO, J.-“Feedback scheduling of power-aware soft real-time tasks.” *Proceedings of Mexican International Conference on Computer Science*, del 28 al 30 de septiembre de 2005. Puebla (Pue.), México. pp.266-273.

**CITAS A:**

**Record 1 of 13**

**Title:** A Real-time Feedback Scheduler for Environmental Energy Harvesting

**Author(s):** Abbas, A (Abbas, A.); Grolleau, E (Grolleau, E.); Loudini, M (Loudini, M.); Mehdi, D (Mehdi, D.)

**Edited by:** Mehdi D; Aitouch A; Quevedo J

**Source:** 2013 3D INTERNATIONAL CONFERENCE ON SYSTEMS AND CONTROL (ICSC) **Published:** 2013

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 3d International Conference on Systems and Control (ICSC)

**Conference Date:** OCT 29-31, 2013

**Conference Location:** Algiers, ALGERIA

**ISBN:** 978-1-4799-0275-0

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**Record 2 of 13**

**Title:** Thermal-Aware Feedback Control Scheduling for Soft Real-Time Systems

**Author(s):** Yue, JM (Yue, Jinming); Zhang, TF (Zhang, Tiefei); Liu, YN (Liu, Yunnan); Quan, BX (Quan, Baixin); Chen, TZ (Chen Tianzhou)

**Book Group Author(s):** IEEE

**Edited by:** Min G; Lefevre L; Hu J; Liu L; Yang LT; Seelam S

**Source:** 2012 IEEE 14TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS & 2012 IEEE 9TH INTERNATIONAL CONFERENCE ON EMBEDDED SOFTWARE AND SYSTEMS (HPCC-ICISS) **Pages:** 1479-1486 **DOI:** 10.1109/HPCC.2012.216 **Published:** 2012

**Language:** English

**Document Type:** Proceedings Paper



**Conference Title:** IEEE 14th International Conference on High Performance Computing and Communications (HPCC) / IEEE 9th International Conference on Embedded Software and Systems (ICSS)

**Conference Date:** JUN 25-27, 2012

**Conference Location:** Liverpool, ENGLAND

**ISBN:** 978-0-7695-4749-7

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**Record 3 of 13**

**Title:** Control-theoretic dynamic voltage scaling for embedded controllers

**Author(s):** Xia, F (Xia, F.); Tian, YC (Tian, Y.-C.); Sun, Y (Sun, Y.); Dong, J (Dong, J.)

**Source:** IET COMPUTERS AND DIGITAL TECHNIQUES **Volume:** 2 **Issue:** 5 **Pages:** 377-385 **DOI:** 10.1049/iet-cdt:20070112 **Published:** SEP 2008

**Language:** English

**Document Type:** Article

**ISSN:** 1751-8601

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**Record 4 of 13**

**Title:** Control and Scheduling Codesign Flexible Resource Management in Real-Time Control Systems Overview

**Author(s):** Xia, F (Xia, Feng); Sun, YX (Sun, Youxian)

**Book Author(s):** Xia, F (Xia, F); Sun, Y (Sun, Y)

**Source:** CONTROL AND SCHEDULING CODESIGN: FLEXIBLE RESOURCE MANAGEMENT IN REAL-TIME CONTROL SYSTEMS **Book Series:** Advanced Topics in Science and Technology in China **Pages:** 3-41 **Published:** 2008

**Language:** English

**Document Type:** Editorial Material; Book Chapter

**ISBN:** 978-3-540-78254-4

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**Record 5 of 13**

**Title:** Energy-Aware Feedback Scheduling

**Book Author(s):** Xia, F (Xia, F); Sun, Y (Sun, Y)

**Source:** CONTROL AND SCHEDULING CODESIGN: FLEXIBLE RESOURCE MANAGEMENT IN REAL-TIME CONTROL SYSTEMS **Book Series:** Advanced Topics in Science and Technology in China **Pages:** 129-153 **Published:** 2008

**Language:** English

**Document Type:** Article; Book Chapter

**ISBN:** 978-3-540-78254-4

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**Record 6 of 13**

**Title:** Enhanced Energy-Aware Feedback Scheduling

**Book Author(s):** Xia, F (Xia, F); Sun, Y (Sun, Y)

**Source:** CONTROL AND SCHEDULING CODESIGN: FLEXIBLE RESOURCE MANAGEMENT IN REAL-TIME CONTROL SYSTEMS **Book Series:** Advanced Topics in Science and Technology in China **Pages:** 154-184 **Published:** 2008

**Language:** English

**Document Type:** Article; Book Chapter

**ISBN:** 978-3-540-78254-4

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**Record 7 of 13**

**Title:** Fuzzy logic-based energy aware feedback scheduling

**Author(s):** HU, W.; LI, Z- & XU, K.-

**Source:** Computer Engineering and Applications **Volume:** 46 **Issue:** 7 **Pages:** 232-235 **Published:** 2010

**Language:** English

**Document Type:** Article

**ISSN:** 1002-8331

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**Record 8 of 13**

**Title:** Thermal-Aware Feedback Control Scheduling for Soft Real-Time Systems

**Author(s):** HÖGLUND, J; OLOFSSON, S.; PERSSON, M.; FREDRIKSSON, J. & SCHOLLE, D.-”

**Book Group Author(s):** WEA-CPS

**Edited by:**

**Source:** First International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems **Pages:** 26-33 **Published:** 2012

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** *Proc. Of the First International Workshop on Energy Aware Design and Analysis of Ciber Physical Sysems*, 12 de abril de 2010. Estocolmo, Suecia

**Conference Date:** 2010

**Conference Location:** Liverpool, ENGLAND

**ISRN:** MDH-MRTC-248/2010-1-SE

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**Record 9 of 13**

**Title:** *Technical report: Design of Self-Adaptive Software Systems using Control Engineering Approaches.*

**Author(s):** PATRIKIRIKORALA, T.; COLMAN, A.; WANG, L. & HAN, J.-

**Source:** Swinburne University of Technology. Melbourne, Australia. **Pages:** 1-25 **Published:** 2012

**Language:** English

**Document Type:** Proceedings Paper

**Conference Date:** 2011

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**Record 10 of 13**

**Title:** Quality-of-Service Management for Wireless Sensor and Actuator Networks

**Author(s):** XIA, F.-

**Source:** Quality-of-Service Management for Wireless Sensor and Actuator Networks / College of Computer Science and Technology. Zhejiang Univeristy **Pages:** 1-104 **Published:** 2009

**Language:** English

**Document Type:** Postdoctoral Research Report

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**Record 11 of 13**

**Title:** *Using Nonlinear Control of Resources to Achieve Differential Performance Objectives in Software Systems.*

**Author(s):** PATIKIRIKORALA, T.

**Source:** *Using Nonlinear Control of Resources to Achieve Differential Performance Objectives in Software Systems.* / Swinburne University of Technology. Melbourne, Australia. 2013 **Pages:** 1-287 **Published:** 2013

**Language:** English

**Document Type:** Tesis Doctoral

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A real-time feedback scheduler based on control error for environmental energy harvesting systems (2015) PECCS 2015 - 5th International Conference on Pervasive and Embedded Computing and Communication Systems, Proceedings, pp. 349-357.

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[84938857999&partnerID=40&md5=e37009eea2b074e6876b9a0aed6f96ed](http://www.scopus.com/inward/record.url?eid=2-s2.0-84938857999&partnerID=40&md5=e37009eea2b074e6876b9a0aed6f96ed)

ISBN: 9789897580840

DOCUMENT TYPE: Conference Paper

SOURCE: [Scopus](#)

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**Record 13 of 13**

Li, Z., Grosu, R., Sehgal, P., Smolka, S.A., Stoller, S.D., Zadok, E.

On the energy consumption and performance of systems software (2011) ACM International Conference Proceeding Series, art. no. 8, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960131092&partnerID=40&md5=9c8625f3e30879a279facfbb16ec2325)

[79960131092&partnerID=40&md5=9c8625f3e30879a279facfbb16ec2325](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960131092&partnerID=40&md5=9c8625f3e30879a279facfbb16ec2325)

DOI: 10.1145/1987816.1987827

ISBN: 9781450307734

DOCUMENT TYPE: Conference Paper

SOURCE: [Scopus](#)

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**CITAS B:**

**Record 1 of 13**

**Title:** A Real-time Feedback Scheduler for Environmental Energy Harvesting

**Author(s):** Abbas, A (Abbas, A.); Grolleau, E (Grolleau, E.); Loudini, M (Loudini, M.); Mehdi, D (Mehdi, D.)

**Edited by:** Mehdi D; Aitouch A; Quevedo J

**Source:** 2013 3D INTERNATIONAL CONFERENCE ON SYSTEMS AND CONTROL (ICSC) **Published:** 2013

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**Record 2 of 13**

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**Edited by:** Min G; Lefevre L; Hu J; Liu L; Yang LT; Seelam S

**Source:** 2012 IEEE 14TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS & 2012 IEEE 9TH INTERNATIONAL CONFERENCE ON EMBEDDED SOFTWARE AND SYSTEMS (HPCC-ICSS) **Pages:** 1479-1486 **DOI:** 10.1109/HPCC.2012.216 **Published:** 2012

**Language:** English

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**Author(s):** Xia, F (Xia, F.); Tian, YC (Tian, Y.-C.); Sun, Y (Sun, Y.); Dong, J (Dong, J.)

**Source:** IET COMPUTERS AND DIGITAL TECHNIQUES **Volume:** 2 **Issue:** 5 **Pages:** 377-385 **DOI:** 10.1049/iet-cdt:20070112 **Published:** SEP 2008

**Language:** English

**Document Type:** Article

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**Record 4 of 13**

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**Book Author(s):** Xia, F (Xia, F); Sun, Y (Sun, Y)

**Source:** CONTROL AND SCHEDULING CODESIGN: FLEXIBLE RESOURCE MANAGEMENT IN REAL-TIME CONTROL SYSTEMS **Book Series:** Advanced Topics in Science and Technology in China **Pages:** 3-41 **Published:** 2008

**Language:** English

**Document Type:** Editorial Material; Book Chapter

**ISBN:** 978-3-540-78254-4

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**Record 5 of 13**

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**Book Author(s):** Xia, F (Xia, F); Sun, Y (Sun, Y)

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**Language:** English

**Document Type:** Article; Book Chapter

**ISBN:** 978-3-540-78254-4

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**Record 6 of 13**

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**Record 7 of 13**

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**Author(s):** HU, W.; LI, Z- & XU, K.-

**Source:** Computer Engineering and Applications **Volume:** 46 **Issue:** 7 **Pages:** 232-235 **Published:** 2010

**Language:** English

**Document Type:** Article

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**Record 8 of 13**

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**Author(s):** HÖGLUND, J; OLOFSSON, S.; PERSSON, M.; FREDRIKSSON, J. & SCHOLLE, D.-”

**Book Group Author(s):** WEA-CPS

**Edited by:**

**Source:** First International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems **Pages:** 26-33 **Published:** 2012

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** *Proc. Of the First International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems*, 12 de abril de 2010. Estocolmo, Suecia

**Conference Date:** 2010

**Conference Location:** Liverpool, ENGLAND

**ISRN:** MDH-MRTC-248/2010-1-SE

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**Record 9 of 13**

**Title:** *Technical report: Design of Self-Adaptive Software Systems using Control Engineering Approaches.*

**Author(s):** PATRIKIRIKORALA, T.; COLMAN, A.; WANG, L. & HAN, J.-

**Source:** Swinburne University of Technology. Melbourne, Australia. **Pages:** 1-25 **Published:** 2012

**Language:** English

**Document Type:** Proceedings Paper

**Conference Date:** 2011

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**Record 10 of 13**

**Title:** Quality-of-Service Management for Wireless Sensor and Actuator Networks

**Author(s):** XIA, F.-

**Source:** Quality-of-Service Management for Wireless Sensor and Actuator Networks / College of Computer Science and Technology. Zhejiang Univeristy **Pages:** 1-104 **Published:** 2009

**Language:** English

**Document Type:** Postdoctoral Research Report

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**Record 11 of 13**

**Title:** *Using Nonlinear Control of Resources to Achieve Differential Performance Objectives in Software Systems.*

**Author(s):** PATIKIRIKORALA, T.

**Source:** *Using Nonlinear Control of Resources to Achieve Differential Performance Objectives in*

*Software Systems.* / Swinburne University of Technology.  
Melbourne, Australia. 2013 **Pages:** 1-287 **Published:** 2013

**Language:** English

**Document Type:** Tesis Doctoral

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**Record 12 of 13**

Abbas, A., Grolleau, E., Loudini, M., Hidouci, W.-K.

A real-time feedback scheduler based on control error for environmental energy harvesting systems (2015) PECCS 2015 - 5th International Conference on Pervasive and Embedded Computing and Communication Systems, Proceedings, pp. 349-357.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84938857999&partnerID=40&md5=e37009eea2b074e6876b9a0aed6f96ed)

[84938857999&partnerID=40&md5=e37009eea2b074e6876b9a0aed6f96ed](http://www.scopus.com/inward/record.url?eid=2-s2.0-84938857999&partnerID=40&md5=e37009eea2b074e6876b9a0aed6f96ed)

ISBN: 9789897580840

DOCUMENT TYPE: Conference Paper

SOURCE: [Scopus](#)

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**Record 13 of 13**

Li, Z., Grosu, R., Sehgal, P., Smolka, S.A., Stoller, S.D., Zadok, E.

On the energy consumption and performance of systems software (2011) ACM International Conference Proceeding Series, art. no. 8, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960131092&partnerID=40&md5=9c8625f3e30879a279facfb16ec2325)

[79960131092&partnerID=40&md5=9c8625f3e30879a279facfb16ec2325](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960131092&partnerID=40&md5=9c8625f3e30879a279facfb16ec2325)

DOI: 10.1145/1987816.1987827

ISBN: 9781450307734

DOCUMENT TYPE: Conference Paper

SOURCE: [Scopus](#)

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9. **SORIA, A.;** GARRIDO, R. & VÁZQUEZ, R.-"Improving Visual Servoing control with High Speed Cameras". *Proceedings of the ICEEE/CIE 2004.* Del 8 a 10 de septiembre de 2004. Acapulco, Gro.

**CITAS A:**

**Record 1 of 3**

**Title:** A Novel Approach to Telemedicine Video Control Technology

**Author(s):** Dinevski, D (Dinevski, Dejan); Pacnik, G (Pacnik, Gregor)

**Source:** TELEMEDICINE JOURNAL AND E-HEALTH **Volume:** 15 **Issue:** 9 **Pages:** 859-866 **DOI:** 10.1089/tmj.2009.0025 **Published:** NOV 2009

**Language:** English

**Document Type:** Article

**ISSN:** 1530-5627

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**Record 2 of 3**

**Title:** Uncalibrated Visual Servo Control with Neural Network

**Author(s):** Klobucar, R (Klobucar, Rok); Cas, J (Cas, Jure); Safaric, R (Safaric, Riko); Brezocnik, M (Brezocnik, Miran)

**Source:** STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING **Volume:** 54 **Issue:** 9 **Pages:** 619-627 **Published:** SEP 2008

**Language:** English

**Document Type:** Article

**ISSN:** 0039-2480

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**Record 3 of 3**

**Title:** Uncalibrated visual servo control with neural network

**Author(s):** Klobucar, R (Klobucar, Rok); Cas, J (Cas, Jure); Safaric, R (Safaric, Riko)

**Book Group Author(s):** IEEE

**Source:** AMC '08: 10TH INTERNATIONAL WORKSHOP ON ADVANCED MOTION CONTROL, VOLS 1 AND 2, PROCEEDINGS **Pages:** 74-79 **Published:** 2008

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 10th International Workshop on Advanced Motion Control

**Conference Date:** MAR 26-28, 2008

**Conference Location:** Trento, ITALY

**ISBN:** 978-1-4244-1702-5

**CITAS B:****Record 1 of 3**

**Title:** A Novel Approach to Telemedicine Video Control Technology

**Author(s):** Dinevski, D (Dinevski, Dejan); Pacnik, G (Pacnik, Gregor)

**Source:** TELEMEDICINE JOURNAL AND E-HEALTH **Volume:** 15 **Issue:** 9 **Pages:** 859-866 **DOI:** 10.1089/tmj.2009.0025 **Published:** NOV 2009

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**Record 2 of 3**

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**Author(s):** Klobucar, R (Klobucar, Rok); Cas, J (Cas, Jure); Safaric, R (Safaric, Riko); Brezocnik, M (Brezocnik, Miran)

**Source:** STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING **Volume:** 54 **Issue:** 9 **Pages:** 619-627 **Published:** SEP 2008

**Language:** English

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**Book Group Author(s):** IEEE

**Source:** AMC '08: 10TH INTERNATIONAL WORKSHOP ON ADVANCED MOTION CONTROL, VOLS 1 AND 2, PROCEEDINGS **Pages:** 74-79 **Published:** 2008

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 10th International Workshop on Advanced Motion Control

**Conference Date:** MAR 26-28, 2008

**Conference Location:** Trento, ITALY

**ISBN:** 978-1-4244-1702-5

10. GARRIDO, R.; **SORIA, A.**; CASTILLO, P. & VÁSQUEZ, I.- "Visual Servoing Architecture For Controlling Electromechanical Systems". *Proceedings of the 2001 IEEE Conference on Control Applications*. 5 al 7 de septiembre de 2001. México D.F. pp.35-40.

**CITAS A:**

**Record 1 of 7**

**Title:** Vision Based Flexible Beam Tip Point Control

**Author(s):** Xu, YJ (Xu, Yunjun); Ritz, E (Ritz, Erich)

**Source:** IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY **Volume:** 17 **Issue:** 5 **Pages:** 1220-1227 **DOI:** 10.1109/TCST.2008.2011890 **Published:** SEP 2009

**Language:** English

**Document Type:** Article

**ISSN:** 1063-6536

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**Record 2 of 7**

**Title:** High speed filtering using reconfigurable hardware

**Author(s):** PEREZ-VIDAL, C. & GRACIA, L.-

**Source:** *J. Parallel Distrib. Comput.* **Volume:** 69 **Pages:** 896-904 **DOI:** 10.1016/j.jpdc.2009.06.004 **Published:** Nov 2009

**Language:** English

**Document Type:** Article

**ISSN:** 0743-7315

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**Record 3 of 7**

**Title:** Vision Based Flexible Beam Tip Point Control

**Author(s):** Xu, YJ (Xu, Yunjun); Ritz, E (Ritz, Erich)

**Book Group Author(s):** IEEE

**Source:** 2009 AMERICAN CONTROL CONFERENCE, VOLS 1-9 **Book Series:** PROCEEDINGS OF THE AMERICAN CONTROL CONFERENCE **Pages:** 5277-5282 **DOI:** 10.1109/ACC.2009.5159964 **Published:** 2009

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** American Control Conference 2009

**Conference Date:** JUN 10-12, 2009

**Conference Location:** St Louis, MO

**ISSN:** 0743-1619

**ISBN:** 978-1-4244-4523-3

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**Record 4 of 7**

**Title:** Digital AC servo control interpolation of data transmission

**Author(s):** LI, Y. & SHI, T.-

**Source:** *Journal of Hubei University of Technology* **Volume:** 20 **Issue:** 54 **Pages:** 135-138 **Published:** JUL 2005

**Language:** English

**Document Type:** Article

**ISSN:** 1003-4684

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**Record 5 of 7****Document Type:** Journal Paper**Title:** Barcode-based position control servo for high-speed conditions**Author(s):** Lu Chunhui; Wang Shigang; Fu Wenhan**Source:** Frontiers of Electrical and Electronic Engineering in China **Volume:** 2 **Issue:** 2 **Pages:** 186-91**Published:** April 2007**Language:** English**DOI:** 10.1007/s11460-007-0035-6**Record 6 of 7****Document Type:** Journal Paper**Title:** Barcode-based position control servo for high-speed condition**Author(s):** Lu Chun-hui; Wang Shi-gang; Fu Wen-han**Source:** Journal of Shanghai Jiaotong University **Volume:** 40 **Issue:** 3 **Pages:** 456-60, 465 **Published:** March 2006**Language:** Chinese**Record 7 of 7****Title:** *Machine Vision Based Robot Motion Control by Using a SOPC System.***Author(s):** PATIKIRIKORALA, T.**Source:** *Machine Vision Based Robot Motion Control by Using a SOPC System.* / National Taiwan University of Science and Technology.Melbourne, Australia. 2013 **Pages:** 1- 127 **Published:** 2005**Language:** Chinese**Document Type:** Tesis Doctoral**CITAS B:****Record 1 of 10****Title:** Vision Based Flexible Beam Tip Point Control**Author(s):** Xu, YJ (Xu, Yunjun); Ritz, E (Ritz, Erich)**Source:** IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY **Volume:** 17 **Issue:** 5 **Pages:** 1220-1227 **DOI:** 10.1109/TCST.2008.2011890 **Published:** SEP 2009**Language:** English**Document Type:** Article**ISSN:** 1063-6536**Record 2 of 10****Title:** High speed filtering using reconfigurable hardware**Author(s):** PEREZ-VIDAL, C. & GRACIA, L.-**Source:** *J. Parallel Distrib. Comput.* **Volume:** 69 **Pages:** 896-904 **DOI:** 10.1016/j.jpdc.2009.06.004 **Published:** Nov 2009**Language:** English**Document Type:** Article**ISSN:** 0743-7315**Record 3 of 10**

**Title:** Vision Based Flexible Beam Tip Point Control

**Author(s):** Xu, YJ (Xu, Yunjun); Ritz, E (Ritz, Erich)

**Book Group Author(s):** IEEE

**Source:** 2009 AMERICAN CONTROL CONFERENCE, VOLS 1-9 **Book Series:** PROCEEDINGS OF THE AMERICAN CONTROL CONFERENCE **Pages:** 5277-5282 **DOI:** 10.1109/ACC.2009.5159964 **Published:** 2009

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** American Control Conference 2009

**Conference Date:** JUN 10-12, 2009

**Conference Location:** St Louis, MO

**ISSN:** 0743-1619

**ISBN:** 978-1-4244-4523-3

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**Record 4 of 10**

**Title:** Stable neurovisual servoing for robot manipulators

**Author(s):** Loreto, G (Loreto, G.); Garrido, R (Garrido, R.)

**Source:** IEEE TRANSACTIONS ON NEURAL NETWORKS **Volume:** 17 **Issue:** 4 **Pages:** 953-965 **DOI:** 10.1109/TNN.2006.875993 **Published:** JUL 2006

**Language:** English

**Document Type:** Article

**ISSN:** 1045-9227

**eISSN:** 1941-0093

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**Record 5 of 10**

**Title:** Stable task space neuro controller for robot manipulators without velocity measurements

**Author(s):** Loreto, G (Loreto, G); Garrido, R (Garrido, R)

**Edited by:** Gelbukh A; DeAlbornoz A; TerashimaMarin H

**Source:** MICAI 2005: ADVANCES IN ARTIFICIAL INTELLIGENCE **Book Series:** LECTURE NOTES IN ARTIFICIAL INTELLIGENCE **Volume:** 3789 **Pages:** 1134-1144 **Published:** 2005

**Language:** English

**Document Type:** Article; Proceedings Paper

**Conference Title:** 4th Mexican International Conference on Artificial Intelligence (MICAI 2005)

**Conference Date:** NOV 14-18, 2005

**Conference Location:** Monterrey, MEXICO

**ISSN:** 0302-9743

**ISBN:** 3-540-29896-7

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**Record 6 of 10**

**Title:** Uniform ultimate boundedness of a neural PD controller for robot manipulators with uncertain parameters.

**Author(s):** Loreto, G (Loreto, G); Garrido, R (Garrido, R)

**Book Group Author(s):** IEEE

**Source:** 2004 1ST INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE) **Pages:** 421-426 **Published:** 2004

**Language:** English

**Document Type:** Proceedings Paper

**Conference Title:** 1st International Conference on Electrical and Electronics Engineering (ICEEE)  
**Conference Date:** SEP 08-10, 2004  
**Conference Location:** Acapulco, MEXICO  
**ISBN:** 0-7803-8531-4

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**Record 7 of 10**

**Title:** Digital AC servo control interpolation of data transmission  
**Author(s):** LI, Y. & SHI, T.-  
**Source:** *Journal of Hubei University of Technology* **Volume:** 20 **Issue:** 54 **Pages:** 135-138 **Published:** JUL 2005  
**Language:** English  
**Document Type:** Article  
**ISSN:** 1003-4684

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**Record 8 of 10**

**Document Type:** Journal Paper  
**Title:** Barcode-based position control servo for high-speed conditions  
**Author(s):** Lu Chunhui; Wang Shigang; Fu Wenhan  
**Source:** *Frontiers of Electrical and Electronic Engineering in China* **Volume:** 2 **Issue:** 2 **Pages:** 186-91  
**Published:** April 2007  
**Language:** English  
**DOI:** 10.1007/s11460-007-0035-6

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**Record 9 of 10**

**Document Type:** Journal Paper  
**Title:** Barcode-based position control servo for high-speed condition  
**Author(s):** Lu Chun-hui; Wang Shi-gang; Fu Wen-han  
**Source:** *Journal of Shanghai Jiaotong University* **Volume:** 40 **Issue:** 3 **Pages:** 456-60, 465 **Published:** March 2006  
**Language:** Chinese

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**Record 10 of 10**

**Title:** *Machine Vision Based Robot Motion Control by Using a SOPC System.*  
**Author(s):** PATIKIRIKORALA, T.  
**Source:** *Machine Vision Based Robot Motion Control by Using a SOPC System.* / National Taiwan University of Science and Technology. Melbourne, Australia. 2013 **Pages:** 1- 127 **Published:** 2005  
**Language:** Chinese  
**Document Type:** Tesis Doctoral

## Patente

1. MUÑOZ, C. & **SORIA A.**- “Sistema de reproducción para guitarra eléctrica con sonido de alta fidelidad y protecciones asistidas por microcontrolador”. **Patente No. MX 320098 B.** No. de expediente MX/a/2012/001221 27 de enero de 2012. Fecha de concesión: 14 de mayo de 2014.

**CITAS A: 0**

**CITAS B: 0**