

Publications

A. Scientific Conferences

1. **M. Hödlmoser, C. Bober, M. Kampel.** 2011. Vehicle Guidance Implemented on a Single-Board Computer. In Proc. of the 1st Conference on 3D Imaging, Modeling, Processing, Visualization, Transmission (3DIMPVT'11), Hangzhou, China, May 2011.
2. **D.Sanz, J.Del Cerro, J.Valente, M.Garzón, C.Rossi, A.Barrientos.** 2011. Planificación de trayectorias bi-objetivo en robótica aérea para agricultura de precisión.
3. **C. Fernandez-Quintanilla, J. Dorado, A. Ribeiro, P. Gonzalez de Santos.** 2011. RHEA: Un proyecto europeo para el desarrollo de una flota de robots para el control de malas hierbas. In Actas del XIII Congreso de la Sociedad Española de Malherbología, La Laguna, Spain, November 2011
4. **F. López-Granados, M. Jurado-Expósito, J. M. Peña-Barragán, M.T. Gómez-Casero, A. I. de Castro, J. J. Caballero-Novella, D. Gómez-Candón, L. García-Torres.** 2011. Teledetección de malas hierbas en cultivos en fase temprana: un desafío agronómico transversal. In Actas del XIII Congreso de la Sociedad Española de Malherbología, La Laguna, Spain, November 2011
5. **G. Rabatel, N.Gorretta, S. Labbé.** 2011. Getting NDVI spectral bands from a single standard RGB digital camera : a methodological approach. Computer Vision in Natural Environments: agriculture and forestry (CVNE) Tenerife, Spain 7th-11th November 2011
6. **D. Sanz, J. Del Cerro, J. Valente, M. Garzon, C. Rossi, A. Barrientos.** 2011. Dual path planning for aerial robots: an application on Precision Agriculture. III Workshop de robótica: robótica experimental, Sevilla, Spain 28-29 November
7. **J. Valente, A. Barrientos, J. del Cerro, D. Sanz, M. Garzón, C. Rossi.** 2011. Precision Agriculture without borders: Practical issues and improvements in farmland coverage with aerial vehicles. RED UAS 2011- Research, Development and Education on Unmanned Aerial Systems.
8. **P. Gonzalez-de-Santos, M. Vieri, A. Ribeiro, M. Raffaelli, L. Emmi, M. Fontanelli, M. Rimediotti, C. Frasconi, D. Sarri, A. Peruzzi.** 2011. The RHEA project: a fleet of autonomous robots for precision chemical and non chemical weed management in arable crops and on-canopy spraying in tree crops. Convegno di Medio Termine dell'Associazione Italiana di Ingegneria Agraria, Belgirate, 22-24 settembre 2011
9. **P. Gonzalez-de-Santos.** 2011. Proyecto RHEA. 5ª Conferencia del VII Programa Marco de I+D de la Unión Europea en España: Hacia la Estrategia Común Europea de Investigación e Innovación, San Sebastian, Junio 2011
10. **A. Peruzzi, M. Vieri, L. Emmi, M. Raffaelli, M. Fontanelli, M. Rimediotti, C. Frasconi, D. Sarri, R. Lisci and P. Gonzalez-de-Santos.** 2011. Il progetto RHEA: definizione e gestione delle attrezzature per il controllo fisico delle infestanti da implementare su

una flotta di robot autonomi. Convegno di Medio Termine dell'Associazione Italiana di Ingegneria Agraria, Belgirate, 22-24 settembre 2011

11. **M. Vieri, A. Peruzzi, L. Emmi, M. Raffaelli, M. Fontanelli, M. Rimediotti, C. Frasconi, D. Sarri, R. Lisci and P. Gonzalez-de-Santos.** 2011. The RHEA project: design and management of an innovative sprayer for agrochemical application to tree crops equipping a fleet of autonomous robots. Convegno di Medio Termine dell'Associazione Italiana di Ingegneria Agraria, Belgirate, 22-24 settembre 2011
12. **J. Conesa-Muñoz, A. Ribeiro.** 2011. An evolutionary approach to obtain the optimal distribution of a robot fleet for weed control in arable crops. Proceedings of the 8th European Federation for Information Technology in Agriculture, Food and the Environment / World Congress on Computers in Agriculture. Prague, Czech Republic 11-14 July 2011
13. **N. Sainz-Costa, A. Ribeiro.** 2011. Mapping in wide row crops: Image sequence stabilization and inverse perspective transformation. Proceedings of the 8th European Federation for Information Technology in Agriculture, Food and the Environment / World Congress on Computers in Agriculture. Prague, Czech Republic 11-14 July 2011

B. Scientific Journals

1. **N. Sainz-Costa, A. Ribeiro, X. P. Burgos-Artizzu, M. Guijarro, G. Pajares.** 2011. Mapping wide row crops with video sequences acquired from a tractor at treatment speed. *Sensors* 11, 7095-7109

C. Technical Magazines

2. **M. Garrido, B. Diezma, P. Barreiro, C. Valero.** 2011. Avances hacia una mecatrónica segura en tractor y máquinas agrícolas. *Tierras* 179: 18-24
3. **C. Fernandez-Quintanilla, J. Dorado, A. Ribeiro, P. Gonzalez de Santos.** 2011. Desarrollo de una flota de robots para la aplicación de productos fitosanitarios. *Tierras* 181: 46-52