

## Presentación a Congresos de Investigación (correspondientes a los últimos 10 años)

1. Garcia-Planas, M.I.; Chanes, A. Linear Hamiltonian control systems. An approach under linear algebra point of view. Conference Proceedings / 8th International Conference on Physics and Control (PhysCon 2017). IPACS Electric Library. Florencia, Italia. 2017.
2. Garcia-Planas, M.I.; Tarragona, S. On consensus observability of multi-agent linear systems. Actas del XXV Congreso de Ecuaciones Diferenciales y Aplicaciones / XV Congreso de Matemática Aplicada: Cartagena, España. 2017.
3. Garcia-Planas, M.I. Exact controllability for singular linear dynamical systems. A geometric approach. Actas del XXV Congreso de Ecuaciones Diferenciales y Aplicaciones / XV Congreso de Matemática Aplicada: Cartagena, España. 2017. Pp. 311-31
17. Garcia-Planas, M.I.; Domínguez, S. Una forma alternativa de enseñar y evaluar álgebra lineal. Libro de actas del 5th International Congress of Educational Sciences and Development, Santander (España), 25 y 27 de mayo de 2017. Asociación Española de Psicología Conductual. Santander. España. 2017. Pp.469-469.
18. Garcia-Planas, M.I.; Tarragona, S. Controlabilidad de sistemas líder-seguidores. Sesión especial 1 Álgebra lineal y análisis matricial: avances recientes en teoría y computación Resúmenes de las conferencias. Zaragoza, España 2017. Pp.6-6
19. Garcia-Planas, M.I. Una propuesta de mejora de la discalculia. III Congreso Virtual Internacional sobre Innovación Pedagógica y Praxis Educativa. Libro de Actas. España. 2016. Pp. 38-48
20. Garcia-Planas, M.I. Exact consensus controllability of multi-agent linear systems. 5th International Conference on Applied and Computational Mathematics. 2016. Palma de Mallorca, España, pp. 1-5
21. Garcia-Planas, M.I. Structural consensus controllability of singular multi-agent linear dynamic systems. 5th International Conference on Applied and Computational Mathematics, 2016. Palma de Mallorca, España, pp. 1-6
22. Garcia-Planas, M.I.; de Castro, N. Concatenated families of convolutional codes over finite rings in terms of matrices. 20th ILAS Conference, 2016, Leuven, Bélgica, pp 242-242.
23. Garcia-Planas, M.I. Structural and exact controllability for linear dynamical systems. A geometric approach. 20th ILAS Conference, 2016, Leuven, Bélgica, pp 235-235.
24. Garcia-Planas, M.I.; Magret, M. D. Cifrado de códigos lineales por matrices monomiales con conmutación, ALAMA, 2016, León, España. Pp. 35-35.
25. Garcia-Planas, M.I.; Tarragona, S. On stability and controllability of multi-agent linear systems. ALAMA, 2016, León, España. Pp. 33-33.
26. Garcia-Planas, M.I.; Souidi, E.; Um, L. E.; El Jouhari, H. Convolutional codes and steganography under the linear systems theory point of view. ALAMA, 2016, León, España. Pp. 41-41
27. Garcia-Planas, M.I.; Um, L. E. Quaternary convolutional codes and linear systems. ALCOMA 15 Algebraic Combinatorics and Applications. 2015. –Bayreuth, Alemania. Pp. 70-70.
28. Garcia-Planas, M.I. Multi-agent linear systems with noise. Solving decoupling problema. 20th International Conference on Applied Mathematics (AMATH'15). 2015. Budapest, Hungría. Pp. 37-44
29. Garcia-Planas, M.I.; Magret, M. D. Structural controllability and observability of switched linear systems. 20th International Conference on Applied Mathematics (AMATH'15). 2015. Budapest, Hungría. Pp. 15-21
30. Garcia-Planas, M.I.; Magret, M. D. Eigenvalues and eigenvectors of monomial matrices. XXIV Congress on Differential Equations and Applications/XIV Congress on Applied Mathematics. 2015. Cádiz, España. Pp. 963-966
31. Garcia-Planas, M.I.; Magret, M. D. Permutation non-isometric linear codes over a finite field. XXIV Congress on Differential Equations and Applications/XIV Congress on Applied Mathematics. 2015. Cádiz, España. Pp. 959-962.
32. Garcia-Planas, M.I.; Magret, M. D.; Um, L. E. Códigos monomiales vistos como subespacios vectoriales invariantes. Primeras Jornadas Nacionales de Investigación en Ciberseguridad. 2015. León, España. Pp. 116-121.
33. Garcia-Planas, M.I.; Carriegos, M.; de Castro, N.; Lopez-Cabeceira, M. Enumerating feedback classes of locally Brunovsky systems. 19th International Linear Algebra Society Conference. 2014. Seul, Corea del Sur. Pp. 88-88.
34. Garcia-Planas, M.I. Disturbance decoupling problems for switched linear systems. A geometric approach. 19th International Linear Algebra Society Conference. 2014. Seul, Corea del Sur. Pp. 83-83.
35. Garcia-Planas, M.I. Obtaining Consensus of Multi-agent Linear Dynamic Systems. 2nd International Conference on Mathematical, Computational and Statistical Sciences. Gdansk, Polonia. Pp. 91-95.
36. Garcia-Planas, M.I.; Domínguez, J.; Um, L. E. Sufficient conditions for controllability of serial concatenated linear systems. 2nd International Conference on Mathematical, Computational and Statistical Sciences. Gdansk, Polonia. Pp. 123-127.
37. Garcia-Planas, M.I. Multi-agent linear dynamical systems, analyzing the consensus problem. International Conference on Mathematics and Computers in Sciences and in Industry. 2014. Varna, Bulgaria. Pp. 36-42,
38. Garcia-Planas, M.I.; Souidi, E.; Um, L. E. Decoding algorithm for convolutional codes under linear systems point of view. 8th WSEAS International Conference on Circuits, Systems, Signal and Telecommunications. 2014. Arona, Tenerife, España, Pp. 17-24
39. Garcia-Planas, M.I. Analysis of the disturbance decoupling problem for singular switched linear systems via feedback and output injection. 8th WSEAS International Conference on Circuits, Systems, Signal and Telecommunications. 2014. Arona, Tenerife, España, Pp. 41-45
40. Garcia-Planas, M.I.; Tarragona, S. Analysis of functional output-controllability of time-invariant Composite linear systems. International Conference on Systems, Control and Informatics 2013. Venecia, Italia. Pp. 40-47
41. Garcia-Planas, M.I.; Tarragona, S. Analysis of behavior of a simple eigenvalue of singular system. International Conference on Systems, Control and Informatics 2013. Venecia, Italia. Pp. 123-129
42. Garcia-Planas, M.I.; Souidi, E.; Um, L. E. Concatenated convolutional codes: Analysis of control properties under linear systems theory point of view. 3eme Edition Des Journées Nationales de Securite. Institute of Electrical and Electronics Engineers (IEEE). 2013. Rabat, Marruecos.
43. Mediano, B.; Domínguez, J.; Garcia-Planas, M.I. Analysis of support structure of wind turbine tower. 6th International Conference on Physics and Control. 2013. San Luis de Potosí, México
44. Domínguez, J.; Garcia-Planas, M.I. Functional output-controllability analysis of fixed speed wind turbine. 6th International Conference on Physics and Control. 2013. San Luis de Potosí, México
45. Garcia-Planas, M.I. Versal deformations of bilinear systems under output-injection equivalence. 6th International Conference on Physics and Control. 2013. San Luis de Potosí, México
46. Garcia-Planas, M.I.; Magret, M. D.; Montoro, M. Cyclic codes as hyperinvariant subspaces. 6th International Conference on Physics and Control. 2013. San Luis de Potosí, México
47. Tarragona, S.; Garcia-Planas, M.I. Perturbation analysis of simple eigenvalues of singular linear systems. 6th International Conference on Physics and Control. 2013. San Luis de Potosí, México
48. Garcia-Planas, M.I.; Um, L. E.; Souidi, E. Analysis of control properties [Analysis of control properties of convolutional concatenated codes under linear systems point of view. National Security Days, 2013. Rabat, Marruecos.
49. Garcia-Planas, M.I. Convolutional codes under control theory point of view. Analysis of output-observability. 12th WSEAS International Conference on Signal Processing, Robotics and Automation (ISPR'13): Cambridge, Reino Unido,
50. Garcia-Planas, M.I. Generic families of singular systems and their bifurcation diagrams. International Conference Analysis and Singularities. Dedicated to Vladimir Igorevich Arnold. 2012. Moscú, Rusia
51. Magret, M. D.; Garcia-Planas, M.I. Disturbance decoupling problem for singular switched linear systems. SIAM Conference on applied linear algebra, 2012. Valencia, España.
52. Garcia-Planas, M.I.; Diaz, A. On equivalence of singular systems time-invariant linear systems. A complete system of invariants. Alama Meeting 2012, In honor of Rafael Bru. 2012. Leganés, España. Pp. 37-37
53. Garcia-Planas, M.I.; Tarragona, S. Analysis of behavior of the eigenvalues and eigenvectors of singular linear systems. 2012 SIAM Conferenc on Applied Linear Algebra. València. España.
54. Garcia-Planas, M.I. Reduction to miniversal deformations of families of bilinear systems. 2012 SIAM Conferenc on Applied Linear Algebra. València. España
55. Garcia-Planas, M.I.; Domínguez, J.; Mediano, B. Input observability analysis of Fixed speed wind turbine. 3rd International conference on energy, environment, devices, systems, communications, computers (INEEE'12): Rovaniemi, Finland, 2012. Pp. 13-18
56. Domínguez, J.; Garcia-Planas, M.I. Output controllability analysis of fixed speed wind turbine 5th International Physics and Control. 2011. León, España Pp.1-5
57. Garcia-Planas, M.I.; Um, L. E.; Souidi, Error correcting codes under linear systems point of view. 5th International Physics and Control. 2011. León, España
58. Garcia-Planas, M.I.; Lopez-Cabeceira, M. Coprime factorization of the transfer matrix of a singular linear systems. 5th International Physics and Control. 2011. León, España .
59. Clotet, J.; Garcia-Planas, M.I.; Magret, M. D. Controllability of second-order switched linear systems. 5th International Physics and Control. 2011. León, España.
60. Garcia-Planas, M.I.; Domínguez, J. Output controllability and steady-output controllability analysis of fixed speed. 5th International Physics and Control. 2011. León, España
61. Garcia-Planas, M.I. Generalized controllability subspaces for time invariant singular systems. 5th International Physics and Control. 2011. León, España
62. Garcia-Planas, M.I.; Mediano, B. Stability of a pipeline hydraulic fluid with one end fixed. 5th International Physics and Control. 2011. León, España
63. Garcia-Planas, M.I.; Tarragona, S. Output observability of time-invariant singular linear systems. 5th International Physics and Control. 2011. León, España
64. Garcia-Planas, M.I.; Tarragona, S. Perturbation analysis of eigenvalues of polynomial matrices smoothly depending on parameters. 15th WSEAS International Conference on Systems. Corfu, Grecia. 2011
65. Garcia-Planas, M.I. Solving disturbance decoupling for singular systems by p&d feedback and p&d output injection. 5th International Physics and Control. 2011. León, España.
66. Garcia-Planas, M.I.; Tarragona, S. Perturbation analysis of simple eigenvalues and eigenvectors of singular linear systems. 17th Conference of the International Linear Algebra Society. Braunschweig, Alemania, 2011.
67. Garcia-Planas, M.I.; Lopez-Cabeceira, M. Right coprime factorization of rational matrices over commutative rings. 17th Conference of the International Linear Algebra Society. Braunschweig, Alemania, 2011.
68. Garcia-Planas, M.I. Solving disturbance decoupling for linear singular systems by p-d feedback and pd-output injection. 17th Conference of the International Linear Algebra Society. Braunschweig, Alemania, 2011.
69. Garcia-Planas, M.I.; Tarragona, S. Perturbación de los valores propios simples de matrices de polinomios dependientes diferenciablemente de parámetros. 2nd Meeting on Linear Algebra Matrix analysis and applications. València, España, 2010.
70. Garcia-Planas, M.I.; Tarragona, S. Bifurcation analysis of eigenvalues of polynomial matrices smoothly depending on parameters. 16th Conference of the International Linear Algebra Society. Pisa, Italia. 2010.
71. Garcia-Planas, M.I. Disturbance decoupling for singular systems by feedback and output injection. 16th Conference of the International Linear Algebra Society. Pisa, Italia. 2010
72. Garcia-Planas, M.I. Codes et systèmes linéaires contrôlables: une approche géométrique. 2eme Congrès International de la Société Marocaine de Mathématiques Appliquées. 2010. Rabat, Marruecos
73. Garcia-Planas, M.I.; Lopez-Cabeceira, M. A Stein matrix equation related to transfer matrix of linear dynamic systems over commutative rings. 2nd meeting on Linear Algebra Matrix Analysis and Applications. València, España. 2010.
74. Garcia-Planas, M.I.; Tarragona, S. Perturbación de los valores propios simples de matrices de polinomios dependientes diferenciablemente de parámetros. 2nd meeting on Linear Algebra Matrix Analysis and Applications. València, España. 2010.
75. Garcia-Planas, M.I.; Diaz, A. A canonical reduced form for singular time invariant linear systems. Part II. 14th Wseas International Conference on Applied Mathematics (MATH '09). 2009. Puerto de la Cruz, España.
76. Garcia-Planas, M.I.; Diaz, A. A Canonical Reduced Form for Singular Time Invariant Linear Systems. Part I. 14th Wseas International Conference on Applied Mathematics (MATH '09). 2009. Puerto de la Cruz, España.
77. Diaz, A.; Garcia-Planas, M.I. An alternative complete system of invariants for matrix pencils under strict equivalence. 14th Wseas International Conference on Applied Mathematics (MATH '09). 2009. Puerto de la Cruz, España.
78. Garcia-Planas, M.I. Sensivity and stability of singular systems under proportional and derivative feedback. 14th Wseas International Conference on Applied Mathematics (MATH '09). 2009. Puerto de la Cruz, España
79. Garcia-Planas, M.I.; Tarragona, S. Controllability of time-invariant singular linear systems. Physics and control conference. San Petesburgo, Rusia. 2009
80. Garcia-Planas, M.I. Dimension of Orbits of Singular Systems under Proportional and Derivative Feedback. 10th SIAM Conference on Applied Linear Algebra. Monterrey (California), Estados Unidos de América. 2009.
81. Garcia-Planas, M.I.; Diaz, A. A canonical reduced form for singular time invariant linear systems. 4th International Scientific Conference on Physics and Control. Catania, Italia 2009.
82. Garcia-Planas, M.I. Disturbance decoupling for singular systems by proportional and derivate feedback and proportional and derivative output injection. 4th International Scientific Conference on Physics and Control. Catania, Italia 2009.
83. Garcia-Planas, M.I. Orbits of singular systems under proportional and derivative feedback. The international Conference "Modern problems of mathematics, mechanichs and their applications" Moscow, Rusia. 2009.
84. Garcia-Planas, M.I. Structural stability of singular systems under proportiona and derivative feedback. XXI Congreso de Ecuaciones Diferenciales y Aplicaciones / IX Congreso de Matemática Aplicada. CEDYA09. Ciudad Real, España. 2009.
85. Garcia-Planas, M.I. Local Deformations and Singular Linear System Theory. Bifurcation Diagrams. APPLIED COMPUTING CONFERENCE. Istanbul, Turquía. 2008.
86. Garcia-Planas, M.I.; Díaz, A. Regularizable singular systems. A complete system of invariants. APPLIED COMPUTING CONFERENCE. Istanbul, Turquía. 2008.
87. Garcia-Planas, M.I. Regularity of Kronecker stratification of families of singular systems under proportional and derivative feedback. APPLIED COMPUTING CONFERENCE. Istanbul, Turquía. 2008.
88. Garcia-Planas, M.I. Holomorphic canonical forms for holomorphic families of singular systems. APPLIED COMPUTING CONFERENCE. Istanbul, Turquía. 2008.
89. Garcia-Planas, M.I.; Clotet, J. The geometry of the uncontrollability set for standardizable second order generalized linear systems on parameters. APPLIED COMPUTING CONFERENCE. Istanbul, Turquía. 2008.
90. Garcia-Planas, M.I. Bifurcation diagrams of families of controllable siungular systems under proportional and derivative feedback. 3rd International IEEE Scientific Conf. on Physics and Control. Postdam, Alemania. 2007
91. Garcia-Planas, M.I. Canonical local forms for holomorphic families of singular systems under proportional and derivative feedback. 3rd International IEEE Scientific Conf. on Physics and Control. Postdam, Alemania. 2007
92. Garcia-Planas, M.I.; Días, A. Structural stability of singular systems under proportional and derivative feedback. 3rd International IEEE Scientific Conf. on Physics and Control. Postdam, Alemania. 2007
93. Garcia-Planas, M.I. Stratification and bifurcation diagrams of families of singular systems under proportional and derivative feedback. 14th Conference of the International Linear Algebra Society. Shanghai, China. 2007.
94. Garcia-Planas, M.I.; Tarragona, S. A lower bound on the distance between a generic singular linear system to a less generic one. Primer Congreso Hispano-francés de Matemáticas ICHFM2007. Zaragoza, España. 2007.
95. Díaz, A.; Garcia-Planas, M.I.; Tarragona, S. Local perturbation of teneralized systems under the action of generalized Lie groups. Primer Congreso Hispano-francés de Matemáticas ICHFM2007. Zaragoza, España. 2007.