

Programa de las IX Jornadas de Matemática Discreta y Algorítmica.

Tarragona, 7-9 de julio de 2014

Lunes 7	
8:30-9:00	Registro
9:00-9:20	Apertura
9:20-10:20	Conferencia de Sergi Elizalde: Bijections for lattice paths between two boundaries
10:20-11:00	Café
11:00-11:20	S. Cabello and M. Jejcic, Shortest paths in intersection graphs of unit disks
11:20-11:40	J. Martí-Farré, Linearly dependent vectorial decomposition of clutters
11:40-12:00	S. Bermudo, H. Fernau, and J. M. Sgarreta, The differential and the Roman domination number of a graph
12:00-12:20	Descanso
12:20-12:40	J. Chappelon, K. Knauer, L.P. Montejano and J. Ramírez-Alfonsín, Connected covering numbers
12:40-13:00	N. Lopez Lorenzo, H. Pérez-Rosés and J. Pujolàs, Grafos mezclados de Moore de tipo Cayley
13:00-13:20	G. De Ita Luna, R. Marcial-Romero and Y. Moyao, An enumerative algorithm for #2SAT
13:20-15:00	Almuerzo
15:00-15:20	R. Fera-Purón, H. Pérez-Rosés and J. Ryan, Searching for large multi-loop networks
15:20-15:40	G. Hernández and M. Martins, Monitoring maximal outerplanar graphs
15:40-16:00	R. Fabila-Monroy, C. Huemer and D. Mitsche, The number of empty four-gons in random point sets
16:00-16:20	C. Dalfo, C. Huemer and J. Salas, The degree/diameter problem in maximal planar bipartite graphs
16:20-17:00	Café
17:00-17:20	M. A. Fiol, Caracterizaciones combinatorias y algebraicas de grafos distancia-regulares
17:20-17:40	W. Carballosa, D. Pestana, J. M. Rodríguez and J. M. Sgarreta, Distortion of the hyperbolicity constant in minor graphs
17:40-18:00	J. M. Aroca, A. Lladó and S. Slamin, On the ascending subgraph decomposition problem for bipartite graphs

19:00	Visita guiada "Tarragona Romana"
Martes 8	
9:00-10:00	Conferencia de Günter Rote: Bicolored point sets with a unique non-crossing matching
10:00-10:40	Café
10:40-11:00	M. P. Alvarez-Ruiz, I. González-Yero, T. Mediavilla-Gradolph and J. C. Valenzuela, On a variant of Roman domination in graphs
11:00-11:20	V. Diego and O. Serra, A problem of Shapozenko on Johnson graphs
11:20-11:40	D. Garijo, A. González and A. Márquez, Breaking symmetries of graphs with resolving sets
11:40-12:00	C. Hernando, M. Mora and I. M. Pelayo, LD-graphs and global location-domination in bipartite graphs
12:00-12:20	Descanso
12:20-12:40	J. Rifá Coma and E. Suárez Canedo, About a class of Hadamard propelinear codes
12:40-13:00	J. Borges Ayats, C. Fernández-Córdoba and R. Ten-Valls, Z_2 -double cyclic codes
13:00-13:20	A. Carmona, A. M. Encinas and M. Mitjana, Potential theory on finite networks
13:20-15:00	Almuerzo
15:00-15:20	G. Perarnau and B. Reed, Existence of spanning F-free subgraphs with large minimum degree
15:20-15:40	R. D. Barrolleta and M. Villanueva, Partial permutation decoding for binary linear Hadamard codes
15:40-16:00	L. Ramos and J. Rúa, Avoiding subgraphs in series-parallel graphs
16:00-16:20	M. Blanco and F. Santos, Classification of lattice 3-polytopes with few lattice points
16:20-17:00	Café
17:00-17:20	C. Marijuán López y M. Pisonero Pérez, Sobre condiciones suficientes para el RNIEP y sus márgenes de realizabilidad
17:20-18:20	Sesión de Posters
21:00	Cena del congreso. Restaurante Les Coques, C/ Sant Llorenç nº15, Tarragona
Miércoles 9	
9:00-10:00	Conferencia de Oriol Serra: Arithmetic Removal Lemmas.
10:00-10:40	Café
10:40-11:00	L. Boza, Sobre los números de Ramsey $R(K_5-e, K_5)$ y $R(K_6-e, K_4)$
11:00-11:20	F. Aguiló-Gost, P. García-Sánchez and D. Llena, Denumerants of 3-numerical semigroups
11:20-11:40	J. Salas and V. Torra, Approximating degree sequences with regular graphic sequences
11:40-12:00	A. Estrada-Moreno, I. G. Yero and J. A. Rodríguez-Velázquez, k-metric resolvability in graphs
12:00-12:20	Descanso
12:20-12:40	A. Lladó, Decomposing almost complete graphs by random trees
12:40-13:00	C. Araúz, A. Carmona and A. M. Encinas, Recovering the conductances on grids
13:00-13:20	A. Abiad, M. A. Fiol, W. H. Haemers and G. Perarnau, An interlacing approach for bounding the sum of Laplacian eigenvalues of graphs
13:20-14:00	Clausura
14:00...	Almuerzo

Posters

- M. Ceballos, J. Núñez y A. F. Tenorio, Estructuras combinatorias asociadas a algunas algebras no asociativas de dimension finita
- S. Bermudo, J. M. Rodríguez and J. M. Sigarreta, Relations between the differential and parameters in graphs
- G. A. Barragán-Ramírez, C. García Gómez and J. A. Rodríguez-Velázquez, Closed formulae for the local metric dimension of corona product graphs
- A. M. Robles-Perez and José Carlos Rosales, The numerical semigroup of the integers which are bounded by a submonoid of \mathbb{N}^2
- G. De Ita Luna, R. Marcial-Romero and Y. Moyao, An approximate algorithm for the chromatic number of graphs
- A. Torokhti, A. Grant and S. Miklavcic, Numerical algorithms for efficient compression of distributed information
- D. Kuziak, J. A. Rodríguez-Velázquez and I. G. Yero, On the strong metric dimension of product graphs
- Y. Ramirez-Cruz, O. R. Oellermann and J. A. Rodríguez-Velázquez, Simultaneous resolvability in graph families
- J. Cáceres, C. Hernando, M. Mora, I. Pelayo and M. L. Puertas, On perfect and quasiperfect dominations in graphs
- J. Cáceres, M. Morales and M. L. Puertas, Two graph families with maximum quasiperfect domination number
- V. Hernández, D. Pestana and J. M. Rodríguez, Bounds on the hyperbolicity constant
- A. Torokhti and P. Howlett, Data estimation under partially missing information
- W. Carballosa, J. M. Rodríguez, J. M. Sigarreta and Y. Torres-Nuñez, Distinctive power of the alliance polynomial for regular graphs
- C. Araúz, A. Carmona and A. M. Encinas, Dirichlet-to-Robin matrix on networks
- F. Aguiló-Gost, P. García-Sánchez y D. Llena, Un algoritmo para el cálculo de primitivos
- W. Carballosa, A. de la Cruz and J. M. Rodríguez, Characterization of the hyperbolicity in the lexicographic product
- S. Bermudo, J. M. Rodríguez, O. Rosario and J. M. Sigarreta, Graphs with small hyperbolicity constant
- A. Cantón, A. Granados, A. Portilla and J. M. Rodríguez, Isoperimetric inequalities in graphs and surfaces
- N. Campanelli, M. E. Frías and J. L. Martínez, Rings of Graphs
- A. Carmona, A. M. Encinas and M. Mitjana, The Kirchhoff index of unicycle weighted chains
- A. Carmona, A. M. Encinas, S. Gago and M. Mitjana, Laplacian matrix of a weighted graph with new pendant vertices
- L. Colmenarejo Hernando and E. Briand, Combinatorial proof for a stability property of plethysm coefficients
- J. Cáceres, C. Hernando, M. Mora, I. M. Pelayo and M. L. Puertas, The graph distance game and some graph operations
- M. P. Alvarez-Ruiz, I. González-Yero, T. Mediavilla-Gradolph and J. C. Valenzuela, On the Roman domination contraction number of trees with small diameter
- C. Balbuena, P. García-Vázquez and J. C. Valenzuela, Edge neighbor connectivity in graphs with given girth
- Luis B. Morales, Sobre la enumeración de diseños sobresaturados óptimos con dos niveles