



Report of the Research Team

**COMBGRAF - Combinatorics, Graph Theory and Applications
Standard form (DRAC)**

Number of pages containing: 73

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Information of the group of the research team

Acronym: COMBGRAF

Name: COMBGRAF - Combinatorics, Graph Theory and Applications

Group UPC Group CER Group TECNIO Others

Persons in charge: Fabrega Canudas, Jose; Serra Albo, Oriol

Discharge date: 22/07/2004

Date of low:

Ojectives: The main goal of the research consists in the application of graph theory and combinatorial structures to the design and analysis of interconnection networks. The topics involved in this objective include graph theory, algebraic and enumerative combinatorics, combinatorial optimisation, algorithms, random structures and discrete geometry. The problems considered often involve the design of topologies for large interconnection networks, network vulnerability and fault-tolerance, routing algorithms, broadcasting and gossiping in networks, symmetrical networks, and storage schemes in parallel architectures and distributed systems.

Keywords: Combinatòria algebraica, Geometries finites, Optimització Combinatòria, Teoria Combinatòria de grups, Teoria de Grafes, Xarxes d'interconnexió

UNESCO codes:

Linking of the members in the basic units:

Linking of the members in the research teams or centers of investigation:

Town/city:

Residence:

Website: <http://combgraph.upc.edu>

Active personnel of the research team COMBGRAF - Combinatorics, Graph Theory and Applications

Teacher

Abiad Monge, Aida	Associate lecturer	100%	Part-time
Aguilo Gost, Francisco de Asis Luis	University lecturer		Full-time
Andres Yebra, Jose Luis	University professor		Full-time
Aroca Farrerons, Josep Maria	University lecturer		Full-time
Balbuena Martinez, Maria Camino Teofila	University professor		Full-time
Ball, Simeon Michael	Attached lecturer		Full-time
Barriere Figueroa, Eulalia	University lecturer		Full-time
Burillo Puig, Jose	University lecturer		Full-time
Cámara Vallejo, Marc	Associate lecturer		Part-time
Comellas Padro, Francesc de Paula	University professor		Full-time
Dalfo Simo, Cristina	Lecturer		Full-time
Espona Dones, Margarida	University lecturer		Full-time
Fàbrega Canudas, Josep	University professor		Full-time
Fiol Mora, Miquel Àngel	University professor		Full-time
Gago Alvarez, Silvia	Lecturer	100%	Full-time
Garriga Valle, Ernest	University lecturer		Full-time
Gomez Marti, Jose	University lecturer		Full-time
Llado Sanchez, Anna	University lecturer		Full-time
López Masip, Susana Clara	Attached lecturer		Full-time
Lozano Bojados, Antoni	University lecturer	100%	Full-time
Marcote Ordax, Francisco Javier	University lecturer		Full-time
Miralles De La Asuncion, Alicia	College lecturer		Full-time
Mitjana Riera, Margarida	University lecturer		Full-time
Muñoz Lopez, Francisco Javier	University lecturer		Full-time
Pelayo Melero, Ignacio Manuel	University lecturer		Full-time
Pérez Mansilla, Sonia	Attached lecturer		Full-time
Rius Font, Miquel	Agregat d'Institut CS		Full-time
Serra Albo, Oriol	University professor		Full-time
Vilaltella Castanyer, Joan	Associate lecturer	100%	Part-time
Zaragoza Monroig, Maria Luisa	University lecturer		Full-time

Researcher

Hansberg Pastor, Adriana	Researcher	100%	Part-time
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Researcher in formation

González Moreno, Diego Antonio	Estudiant Doctorat		Full-time
Moragas Vilarnau, Jordi	FPI - Ministeri de Ciències (MCYT)		Full-time
Perarnau Llobet, Guillem	Doctorands/es amb beca o contracte	100%	Full-time
Salas Piñon, Julian	Research fellow	100%	Full-time

Researcher in formation

Vena Cros, Lluís	Estudiant de Doctorat	100%	Full-time
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Staff of support in the research

Vilaltella Castanyer, Joan	Tècnic/a Especialitzat Suport Rec	100%	Full-time
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D. Publications

Papers in journals

- Abajo, E.; Balbuena, M.; Diáñez, A.. Girth of $\{C-3, \dots, C-s\}$ -free extremal graphs. *Discrete applied mathematics*. Year: 2012. Volume: 160. Number: 9. Pp.: 1311 ~ 1318. Impact agency: JCR-Science Edition. Impact factor: 0.718. DOI:10.1016/j.dam.2012.01.020.
- Abajo, E.; Balbuena, M.; Diáñez, A.. New families of graphs without short cycles and large size. *Discrete applied mathematics*. Year: 2010. Volume: 158. Number: 11. Pp.: 1127 ~ 1135. Impact agency: JCR-Science Edition. Impact factor: 0.822. Link to text: http://www.sciencedirect.com/science?_ob=MIimg&_imagekey=B6TYW-4YVP0YS-1-7&_cdi=5629&_user=1517299&_pii=S0166218X10001010&_origin=search&_coverDate=06%2F06%2F2010&_sk=998419988&view=c&wchp=dGLbVzW-zSkWA&md5=c43b16d712df6f26a42049cc194da9de&ie=/sdarticle.pdf.
- Abiad, A.; Dalfo, C.; Fiol, M.. Algebraic Characterizations of Regularity Properties in Bipartite Graphs. *European journal of combinatorics*. Year: 2013. Volume: 34. Pp.: 1223 ~ 1231. Impact agency: JCR-Science Edition. Impact factor: 0.677. Link to text: <http://www.sciencedirect.com/science/article/pii/S0195669813000838>.
- Abiad, A.; Ferrer, N.; Vega Lloveras; José Vidal-Gancedo; Roth, S.. Electron spin resonance study of single-walled carbon nanotubes. *Physica status solidi B. Basic solid state physics*. Year: 2011. Volume: 248. Number: 11. Pp.: 2564 ~ 2567. Impact agency: JCR-Science Edition. Impact factor: 1.316. Link to text: <http://onlinelibrary.wiley.com/doi/10.1002/pssb.201100110/pdf>. DOI:10.1002/pssb.201100110.
- Abreu, M.; Araujo-Pardo, G.; Balbuena, M.; Labbate, D.; Salas, J.. Families of small regular graphs of girth 7. *Electronic notes in discrete mathematics*. Year: 2013. Volume: 40. Pp.: 341 ~ 345. Impact agency: SCOPUS-SJR-SCImago Journal Rank. Impact factor: 0.332. Link to text: <https://vpn.upc.edu/science/article/pii/DanaInfo=www.sciencedirect.com+S1571065313000619#>.
- Abreu, M.; Araujo-Pardo, G.; Balbuena, M.; Labbate, D.; Lopez -Chavez, G.. Constructions of biregular cages of girth five. *Electronic notes in discrete mathematics*. Year: 2013. Volume: 40. Pp.: 9 ~ 14. Impact agency: SCOPUS-SJR-SCImago Journal Rank. Impact factor: 0.332. Link to text: <http://www.sciencedirect.com/science/article/pii/S1571065313000048>.
- Abreu, M.; Araujo-Pardo, G.; Balbuena, M.; Labbate, D.; Lopez -Chavez, G.. Biregular cages of girth five. *Electronic journal of combinatorics*. Year: 2013. Volume: 20. Number: 1. Pp.: 1 ~ 14. Impact agency: JCR-Science Edition. Impact factor: 0.638. Link to text: <http://arxiv.org/pdf/1211.0910v1.pdf>.
- Abreu, M.; Araujo-Pardo, G.; Balbuena, M.; Labbate, D.. Families of small regular graphs of girth 5. *Discrete mathematics*. Year: 2012. Volume: 312. Number: 18. Pp.: 2832 ~ 2842. Impact agency: JCR-Science Edition. Impact factor: 0.578. DOI:10.1016/j.disc.2012.05.020.
- Abreu, M.; Balbuena, M.; Labbate, D.. Adjacency matrices of polarity graphs and of other C_4 -free graphs of large size. *Designs codes and cryptography*. Year: 2010. Volume: 55. Number: 2-3. Pp.: 221 ~ 233. Impact agency: JCR-Science Edition. Impact factor: 0.766. Link to text: <http://www.springerlink.com/content/0643j32v62708350/fulltext.pdf>. DOI:10.1007/s10623-010-9364-1.
- Aguilo, F.; García-Sánchez, P. A.. Factorization and catenary degree in 3-generated numerical semigroups. *Electronic notes in discrete mathematics*. Year: 2009. Volume: 34. Pp.: 157 ~ 161. Impact agency: SCOPUS-SJR-SCImago Journal Rank. Impact factor: 0.028. Link to text: <http://upcommons.upc.edu/e-prints/urlFiles?idDrac=3106052>. DOI:10.1016/j.endm.2009.07.026.
- Agustí, A.; Cervello-Pastor, C.; Fiol, M.. ID Routing Mechanism for Opportunistic Multi-Hop Networks. *IEEE communications letters*. Year: 2013. Volume: PP. Number: 99. Pp.: 1 ~ 4. Convention Funding project: Arquitectura híbrida óptica-inalámbrica para servicios tolerantes a retardos e interrupciones - UPC. Impact agency: JCR-Science Edition. Impact factor: 1.16. Link to text: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6646515&isnumber=5534602>.

Papers in journals

- Agusti, A.; Cervello-Pastor, C.; Fiol, M.. Performance analysis of the sent-but-sure strategy for optical burst and packet switched networks. *Performance evaluation*. Year: 2011. Volume: 68. Pp.: 1 ~ 20. Convention Funding project: MTM2005-08990-C02-01 PROBLEMAS EXTREMALES EN TEORÍA DE GRAFOS Y COMBINATORIA; Provisión optima de servicios a redes vehiculares, TSI2006-12507-C03-03. Impact agency: JCR-Science Edition. Impact factor: 0.791. Link to text: <http://linkinghub.elsevier.com/retrieve/pii/S0166531610001215>. DOI:10.1016/j.peva.2010.09.001.
- Agusti, A.; Cervello-Pastor, C.; Fiol, M.. Load-balanced wavelength assignment strategies for optical burst/packet switching networks. *IET communications*. Year: 2009. Volume: 3. Number: 3. Pp.: 381 ~ 390. Impact agency: JCR-Science Edition. Impact factor: 0.751. Link to text: <http://hdl.handle.net/2117/11020>.
- Agusti, A.; Cervello-Pastor, C.; Fiol, M.. A Routing and Wavelength Assignment Strategy for Successful Transmission in Optical Networks. *Journal of interconnection networks*. Year: 2009. Volume: 10. Number: 1. Pp.: 1 ~ 26. Link to text: <http://www.worldscinet.com/join/10/1001n02/S021926590900242X.html>. DOI:10.1142/S021926590900242X.
- Ahmad, A.; López, S.C.; Muntaner-Batlle, F.A.; Rius, M.. Enumerating super edge-magic labelings for the union of non-isomorphic graphs. *Bulletin of the Australian Mathematical Society*. Year: 2011. Volume: 84. Number: 02. Pp.: 310 ~ 321. Convention Funding project: 2009SGR1387; PROBLEMAS EXTREMALES Y DE OPTIMIZACIÓN EN TEORIA DE GRAFOS Y COMBINATORIA: APLICACIÓN AL ANALISIS Y ALGORITMOS DE REDES DE COMUNICAC. Impact agency: JCR-Science Edition. Impact factor: 0.545. Link to text: <http://hdl.handle.net/2117/13452>. DOI:10.1017/S0004972711002292.
- Araujo-Pardo, G.; Balbuena, M.; Lopez -Chavez, G.; MontejanoPeimbert, L.. On bi-regular cages of even girth at least 8. *Aequationes mathematicae*. Year: 2013. Volume: 86. Number: 3. Pp.: 201 ~ 216. Convention Funding project: Control de invariantes en grafos sujetos a propiedades estructurales. Impact agency: JCR-Science Edition. Impact factor: 0.422. DOI:10.1007/s00010-013-0227-5.
- Araujo-Pardo, G.; Balbuena, M.; Olsen, M.; Valencia, P.. On second order degree of graphs. *Acta mathematica sinica, english series*. Year: 2012. Volume: 28. Number: 1. Pp.: 171 ~ 182. Impact agency: JCR-Science Edition. Impact factor: 0.48. DOI:10.1007/s10114-012-9343-8.
- Araujo-Pardo, G.; Balbuena, M.; Valenzuela, J.; Montejano, L.P.. Partial linear spaces and identifying codes. *European journal of combinatorics*. Year: 2011. Volume: 32. Number: 3. Pp.: 344 ~ 351. Impact agency: JCR-Science Edition. Impact factor: 0.677. Link to text: linkinghub.elsevier.com/retrieve/pii/S0195669810001538. DOI:10.1016/j.ejc.2010.10.014.
- Araujo-Pardo, G.; Balbuena, M.. Constructions of small regular bipartite graphs of girth 6. *networks*. Year: 2011. Volume: 57. Number: 2. Pp.: 121 ~ 127. Impact agency: JCR-Science Edition. Impact factor: 1.213. Link to text: <http://hdl.handle.net/2117/12193>. DOI:10.1002/net.20392.
- Araujo-Pardo, G.; Balbuena, M.; Héger, T.. Finding small regular graphs of girths 6, 8 and 12 as subgraphs of cages. *Discrete mathematics*. Year: 2010. Volume: 310. Number: 8. Pp.: 1301 ~ 1306. Impact agency: JCR-Science Edition. Impact factor: 0.536. Link to text: linkinghub.elsevier.com/retrieve/pii/S0012365X09006359. DOI:10.1016/j.disc.2009.12.014.
- Araujo-Pardo, G.; Balbuena, M.; Olsen, M.. On (k, g, l) -dicages. *Ars combinatoria*. Year: 2009. Volume: 92. Number: -. Pp.: 289 ~ 301. Impact agency: JCR-Science Edition. Impact factor: 0.396.
- Araujo-Pardo, G.; Balbuena, M.; Valenzuela, J.. Constructions of bi-regular cages. *Discrete mathematics*. Year: 2009. Volume: 309. Number: 6. Pp.: 1409 ~ 1416. Convention Funding project: MTM2005-08990-C02-02 NUEVAS MEDIDAS DE CONECTIVIDAD Y SU VALORACIÓN EN CIERTAS FAMILIAS DE GRAFOS Y DIGRAFOS. Impact agency: JCR-Science Edition. Impact factor: 0.548. Link to text: <http://dx.doi.org/10.1016/j.dam.2008.12.005>. DOI:10.1016/j.disc.2008.02.012.
- Baca, M.; Lin, Y.; Muntaner, F.; Rius, M.. Strong labelings of linear forests. *Acta mathematica sinica, english series*. Year: 2009. Volume: 25. Number: 12. Pp.: 1951 ~ 1964. Convention Funding project: DESIGUALDADES ISOPERIMETRICAS DISCRETAS. Impact agency: JCR-Science Edition. Impact factor: 0.543. Link to text: <http://www.springerlink.com/content/01h6602383137270/fulltext.pdf>. DOI:10.1007/s10114-009-8284-3.

Papers in journals

- Balbuena, M.; Miller, M.; Siran, J.; Zdimalova, M.. Large vertex-transitive graphs of diameter 2 from incidence graphs of biaffine planes. *Discrete mathematics*. Year: 2013. Volume: 313. Number: 19. Pp.: 2014 ~ 2019. Convention Funding project: APVV project ESF-EC-0009-10; Control de invariantes en grafos sujetos a propiedades estructurales; PROPIETATS DE XARXES DISCRETES I LLUS APLICACIONS (PROXARDIS); 1/0781/11 - VEGA Research Grant; 0223-10 APVV Research Grant. Impact agency: JCR-Science Edition. Impact factor: 0.578. DOI:10.1016/j.disc.2013.03.007.
- Balbuena, M.; González, D.; Montellano-Ballesteros, J.J.. A note on the upper bound and girth pair of $(k; g)$ -cages. *Discrete applied mathematics*. Year: 2013. Volume: 161. Number: 6. Pp.: 853 ~ 857. Impact agency: JCR-Science Edition. Impact factor: 0.795. Number of citations: 3. DOI:10.1016/j.dam.2012.10.008.
- Balbuena, M.; Marcote, F.. The k -restricted edge-connectivity of a product of graphs. *Discrete applied mathematics*. Year: 2013. Volume: 161. Number: 1-2. Pp.: 52 ~ 59. Convention Funding project: Control de invariantes en grafos sujetos a propiedades estructurales. Impact agency: JCR-Science Edition. Impact factor: 0.795. Link to text: http://catalag.upc.edu/record=b1101528~S1*cat. DOI:10.1016/j.dam.2012.08.001.
- Balbuena, M.; García, P.; Hansberg, A.; Montejano, L.. On the super-restricted arc-connectivity of s -geodetic digraphs. *networks*. Year: 2013. Volume: 61. Number: 1. Pp.: 20 ~ 28. Impact agency: SCOPUS-SJR-SCImago Journal Rank. Impact factor: 1.115. DOI:10.1002/net.21462.
- Balbuena, M.; Salas, J.. A new bound for the connectivity of cages. *Applied mathematics letters*. Year: 2012. Volume: 25. Number: 11. Pp.: 1676 ~ 1680. Impact agency: JCR-Science Edition. Impact factor: 1.501. DOI:10.1016/j.aml.2012.01.036.
- Balbuena, M.; García, P.; Hansberg, A.; Montejano, L.. Restricted arc-connectivity of generalized p -cycles. *Discrete applied mathematics*. Year: 2012. Volume: 160. Number: 9. Pp.: 1325 ~ 1332. Impact agency: JCR-Science Edition. Impact factor: 0.718. DOI:10.1016/j.dam.2012.02.006.
- Balbuena, M.; Galeana-Sánchez, H.; Guevara, M.. A sufficient condition for kernel perfectness of a digraph in terms of semikernels modulo F . *Acta mathematica sinica, english series*. Year: 2012. Volume: 28. Number: 2. Pp.: 349 ~ 356. Impact agency: JCR-Science Edition. Impact factor: 0.48. Link to text: <http://www.springerlink.com/content/r785m520860k7w24/>. DOI:10.1007/s10114-012-9754-6.
- Balbuena, M.; Hansberg, A.. New results on 3-domination critical graphs. *Aequationes mathematicae*. Year: 2012. Volume: 83. Number: 3. Pp.: 257 ~ 269. Impact agency: JCR-Science Edition. Impact factor: 0.422. DOI:10.1007/s00010-011-0105-y.
- Balbuena, M.; Cera, M.; García, P.; Valenzuela, J.. Topological minors in bipartite graphs. *Acta mathematica sinica, english series*. Year: 2011. Volume: 27. Number: 11. Pp.: 2085 ~ 2100. Impact agency: JCR-Science Edition. Impact factor: 0.47. Link to text: http://www.actamath.com/Jwk_sxxb_en/EN/abstract/abstract21490.shtml. DOI:10.1007/s10114-011-0149-x.
- Balbuena, M.; Marcote, F.. Monotonicity of the order of (D, g) -cages. *Applied mathematics letters*. Year: 2011. Volume: 24. Number: 11. Pp.: 1933 ~ 1937. Impact agency: JCR-Science Edition. Impact factor: 1.371. DOI:10.1016/j.aml.2011.05.024.
- Balbuena, M.; González, D.; Salas, J.. Edge-superconnectivity of semiregular cages with odd girth. *networks*. Year: 2011. Volume: 58. Number: 3. Pp.: 201 ~ 206. Impact agency: JCR-Social Sciences Edition. Impact factor: 0.0. Link to text: http://catalag.upc.edu/record=b1211544~S1*cat. DOI:10.1002/net.20431.
- Balbuena, M.; García-Vázquez, P.; Montejano, L.P.; Salas, J.. On the (λ) -optimality in graphs with odd girth g and even girth h . *Applied mathematics letters*. Year: 2011. Volume: 24. Number: 7. Pp.: 1041 ~ 1045. Impact agency: JCR-Science Edition. Impact factor: 1.371. Link to text: http://catalag.upc.edu/record=b1213670~S1*cat. DOI:10.1016/j.aml.2011.01.015.
- Balbuena, M.; García, P.; Montejano, L.P.. Superconnectivity of graphs with odd girth g and even girth h . *Discrete applied mathematics*. Year: 2011. Volume: 159. Number: 2-3. Pp.: 91 ~ 99. Impact agency: JCR-Science Edition. Impact factor: 0.795. DOI:10.1016/j.jfa.2010.11.013.
- Balbuena, M.; Marcote, F.. Diameter and connectivity of $(D; g)$ -cages. *International journal of computer mathematics*. Year: 2011. Volume: 88. Number: 7. Pp.: 1387 ~ 1397. Impact agency: JCR-Science Edition. Impact factor: 0.499. Link to text: http://catalag.upc.edu/record=b1333255~S1*cat. DOI:10.1080/00207160.2010.504828.

Papers in journals

- Balbuena, M.; Márquez, A.; Portillo, J.. A sufficient degree condition for a graph to contain all trees of size k . *Acta mathematica sinica, english series*. Year: 2011. Volume: 27. Number: 1. Pp.: 135 ~ 140. Impact agency: JCR-Science Edition. Impact factor: 0.47. Link to text: <http://www.springerlink.com/content/52718460284v2241/>. DOI:10.1007/s10114-011-9617-6.
- Balbuena, M.; González, D.; Lin, Y.; Marcote, F.. On the lower bound of vertex connectivity of semiregular cages. *Utilitas mathematica*. Year: 2010. Volume: 83. Pp.: 57 ~ 68. Impact agency: JCR-Science Edition. Impact factor: 0.743.
- Balbuena, M.; García-Vázquez, P.. On the restricted arc-connectivity of s -geodetic digraphs. *Acta mathematica sinica, english series*. Year: 2010. Volume: 26. Number: 10. Pp.: 1865 ~ 1876. Impact agency: JCR-Science Edition. Impact factor: 0.54. Link to text: <http://upcommons.upc.edu/e-prints/urlFiles?idDrac=3272141>. DOI:10.1007/s10114-010-9313-y.
- Balbuena, M.; Guevara, M.. Kernels and partial line digraphs. *Applied mathematics letters*. Year: 2010. Volume: 23. Number: 10. Pp.: 1218 ~ 1220. Impact agency: JCR-Science Edition. Impact factor: 1.155. Link to text: <http://upcommons.upc.edu/e-prints/urlFiles?idDrac=2755919>. DOI:10.1016/j.aml.2010.06.001.
- Balbuena, M.; González, D.; Marcote, F.. On the connectivity of semiregular cages. *networks*. Year: 2010. Volume: 56. Number: 1. Pp.: 81 ~ 88. Impact agency: JCR-Science Edition. Impact factor: 0.991. Link to text: <http://onlinelibrary.wiley.com/doi/10.1002/net.20349/pdf>. DOI:10.1002/net.20349.
- Balbuena, M.; García, P.. Edge fault tolerance analysis of super k -restricted connected networks. *Applied mathematics and computation*. Year: 2010. Volume: 216. Number: 2. Pp.: 506 ~ 513. Impact agency: JCR-Science Edition. Impact factor: 1.534. Link to text: linkinghub.elsevier.com/retrieve/pii/S0096300310000731. DOI:10.1016/j.amc.2010.01.060.
- Balbuena, M.; Marshall, K.; Montejano, L.P.. On the connectivity and superconnected graphs with small diameter. *Discrete applied mathematics*. Year: 2010. Volume: 158. Number: 5. Pp.: 397 ~ 403. Impact agency: JCR-Science Edition. Impact factor: 0.822. Link to text: http://www.sciencedirect.com/science?_ob=MIimg&_imagekey=B6TYW-4XKSXV6-1-3&_cdi=5629&_user=1517299&_pii=S0166218X09003898&_orig=search&_coverDate=03%2F06%2F2010&_sk=998419994&view=c&wchp=dGLbVzW-zSkWb&md5=bd077c0f75a9549782404ff7ef7ae149&ie=/sdarticle.pdf. DOI:10.1016/j.dam.2009.10.002.
- Balbuena, M.; Marcote, F.; González, D.. Some properties of semiregular cages. *Discrete mathematics and theoretical computer science*. Year: 2010. Volume: 12. Number: 5. Pp.: 125 ~ 138. Impact agency: JCR-Science Edition. Impact factor: 0.607. Link to text: <http://hdl.handle.net/2117/11459>.
- Balbuena, M.; Montejano, L.P.. On the superconnectivity in graphs with odd girth g and even girth h . *Electronic notes in discrete mathematics*. Year: 2009. Volume: 34. Number: 1. Pp.: 537 ~ 541. Impact agency: SCOPUS-SJR-SCImago Journal Rank. Impact factor: 0.028. Link to text: www.elsevier.com/locate/endm. DOI:10.1016/j.endm.2009.07.089.
- Balbuena, M.; Ortego, M.I.. The distribution of extremes in the degree sequence: A Gumbel distribution approach. *Applied mathematics letters*. Year: 2009. Volume: 22. Number: 4. Pp.: 553 ~ 556. Impact agency: JCR-Science Edition. Impact factor: 0.978. DOI:10.1016/j.aml.2008.06.028.
- Balbuena, M.; González, D.; Marcote, F.. On the 3-restricted edge connectivity of permutation graphs. *Discrete applied mathematics*. Year: 2009. Volume: 157. Number: 7. Pp.: 1586 ~ 1591. Convention Funding project: MTM2005-08990-C02-02 NUEVAS MEDIDAS DE CONECTIVIDAD Y SU VALORACIÓN EN CIERTAS FAMILIAS DE GRAFOS Y DIGRAFOS. Impact agency: JCR-Science Edition. Impact factor: 0.816. Number of citations: 1. Link to text: <http://dx.doi.org/10.1016/j.dam.2008.12.005>. DOI:doi:10.1016/j.dam.2008.04.010.
- Balbuena, M.; Tang, J.; Marshall, K.; Lin, Y.. Superconnectivity of regular graphs with small diameter. *Discrete applied mathematics*. Year: 2009. Volume: 157. Number: 7. Pp.: 1349 ~ 1353. Convention Funding project: MTM2005-08990-C02-02 NUEVAS MEDIDAS DE CONECTIVIDAD Y SU VALORACIÓN EN CIERTAS FAMILIAS DE GRAFOS Y DIGRAFOS. Impact agency: JCR-Science Edition. Impact factor: 0.816. Number of citations: 1. Link to text: <http://dx.doi.org/10.1016/j.dam.2008.12.005>. DOI:doi:10.1016/j.dam.2008.11.002.
- Balbuena, M.. A construction of small regular bipartite graphs of girth 8. *Discrete mathematics and theoretical computer science*. Year: 2009. Volume: 11. Number: 2. Pp.: 33 ~ 46. Impact agency: JCR-Science Edition. Impact factor: 0.414. Number of citations: 1. Link to text: <http://www-ma3.upc.es/users/balbuena/PAPERS/consgrith8.pdf>.

Papers in journals

- Ball, S.; Padro, C.; Weiner, Z.; Xing, C.. On the Representability of the Biuniform Matroid. *SIAM journal on discrete mathematics*. Year: 2013. Volume: 27. Number: 3. Pp.: 1482 ~ 1491. Convention Funding project: PROBLEMAS EXTREMALES Y DE OPTIMIZACIÓN EN TEORIA DE GRAFOS Y COMBINATORIA: APLICACIÓN AL ANALISIS Y ALGORITMOS DE REDES DE COMUNICAC. Impact agency: JCR-Science Edition. Impact factor: 0.662. Link to text: <http://epubs.siam.org/doi/abs/10.1137/120886960>. DOI:10.1137/120886960.
- Ball, S.; Blokhuis, A.. A Bound for the Maximum Weight of a Linear Code. *SIAM journal on discrete mathematics*. Year: 2013. Volume: 27. Number: 1. Pp.: 575 ~ 583. Impact agency: JCR-Science Edition. Impact factor: 0.648. DOI:10.1137/120880100.
- Ball, S.; Bamberg, J.; Devillers, A.; Stokes, K.. An alternative way to generalize the pentagon. *Journal of combinatorial designs*. Year: 2013. Volume: 21. Number: 4. Pp.: 163 ~ 179. Impact agency: JCR-Science Edition. Impact factor: 0.62. DOI:10.1002/jcd.21325.
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- López, S.C.. Tema 4. Aplicacions lineals i diagonalització. Types: Other. Year: 2010. Link to text: <http://atenea.upc.edu/moodle/course/view.php?id=35862>.
- López, S.C.. Tema 3. Espais Vectorials. Types: Other. Year: 2010. Link to text: <http://atenea.upc.edu/moodle/course/view.php?id=35862>.
- López, S.C.. Tema 2. Matrius, determinants i sistemes d'equacions lineals. Types: Other. Year: 2010. Link to text: <http://atenea.upc.edu/moodle/course/view.php?id=35862>.
- López, S.C.; Dalfo, C.; Huemer, C.; Tramuns, E.. Proposta d'activitats dirigides per a un curs de càlcul. Types: Other. Year: 2010.
- Lozano, A.. Algorísmia, calculabilitat i complexitat. Types: Notes. Year: 2012. Link to text: <http://alccweb.files.wordpress.com/2009/01/a.pdf>.
- Marcote, F.. Solució dels Controls d'Algebra (E.G.) dels temes 6 a 9. Types: Exercises. Year: 2009. Link to text: ht.
- Marcote, F.. Solucions dels examens d'Algebra (E.G.) del curs. Types: Exercises. Year: 2009. Link to text: <http://atenea.upc.edu/moodle/>.
- Marcote, F.. Problema supervisat (Algebra-E.G., Tema 6), solució. Types: Exercises. Year: 2009. Link to text: <http://atenea.upc.edu/moodle/>.
- Marcote, F.. Alguns problemes resolts d'Algebra (E.G.) de les practiques 6,7,8,9. Types: Exercises. Year: 2009. Link to text: <http://atenea.upc.edu/moodle/>.
- Marcote, F.. Transparencies d'Algebra (E.G.), dels Temes 6 a 9. Types: Notes. Year: 2009. Link to text: <http://atenea.upc.edu/moodle/>.

Teaching materials or lecture notes

- Marcote, F.. Practiques d'Algebra (E.G.), de la 6 a la 9. Types: Exercises. Year: 2009. Link to text: <http://atenea.upc.edu/moodle/>.
- Marcote, F.. Apunts d'Algebra (E.G.) dels Temes 6 a 9. Types: Notes. Year: 2009. Link to text: h.
- Zaragoza, M.; Claverol, M.; Simo, E.. Teoria de Grafs. Types: Notes. Year: 2012. Link to text: <http://ocw.upc.edu/curs/33404/>.
- Zaragoza, M.; Claverol, M.; Simo, E.. Inducció. Types: Notes. Year: 2012. Link to text: <http://ocw.upc.edu/curs/33404/>.
- Zaragoza, M.; Claverol, M.; Simo, E.. Combinatoria-Recurrencias. Types: Notes. Year: 2012. Link to text: <http://ocw.upc.edu/curs/33404/>.
- Zaragoza, M.; Simo, E.; Claverol, M.. problemes de grafs. Types: Exercises. Year: 2012. Link to text: <http://ocw.upc.edu/curs/33404/>.

E. Conferences, courses and other events

Presentations of works in congresses

- Ball, S.. Subsets of a finite vector space in which every subset of basis size is a basis. 100 aniversario de la Real Sociedad de Matemática Española. Year: 2011.
- Ball, S.. Large subsets of a finite vector space in which every subset of basis size is a basis. 1st. Year: 2011.
- Ball, S.. On subsets of a finite vector space in which every subset of basis size is a basis. 4th Pythagorean Conference. Year: 2010.
- Bendito, E.; Carmona, A.; Encinas, A.; Mitjana, M.. Strongly regular and pseudo geometric graphs. European Conference on Combinatorics, Graph Theory and Applications. Year: 2011.
- Bendito, E.; Carmona, A.; Encinas, A.; Mitjana, M.. On the M-property for distance-regular graphs. 4th International Workshop on Optimal Network Topologies. Year: 2011.
- Camara, M.; Dalfo, C.; Delorme, C.; Fiol, M.; Suzuki, H.. Edge-distance regular graphs are distance regular. ICTP-IPM Workshop and Conference in Combinatorics and Graph Theory. Year: 2012.
- Camara, M.; Dalfo, C.; Fiol, M.. Characterizing distance-regular graphs that are edge-distance-regular. ESF Research Conferences: Perspectives in Discrete Mathematics 2012. Year: 2012.
- Camara, M.; Dalfo, C.; Fàbrega, J.; Fiol, M.; Garriga, E.. Edge-distance-regular graphs. European Conference on Combinatorics, Graph Theory and Applications. Year: 2011.
- Camara, M.; Fàbrega, J.; Fiol, M.; Garriga, E.. Pseudo-distance-regular graphs around a set and the local spectrum of its subconstituents. Joint Mathematical Conference CSASC 2010. Year: 2010.
- Camara, M.; Fàbrega, J.; Fiol, M.; Garriga, E.. Pseudo-distance-regular graphs around a set and the local spectrum of its subconstituents. Joint Mathematical Conference CSASC 2010. Year: 2010.
- Camara, M.; Fàbrega, J.; Fiol, M.; Garriga, E.. Two approaches (algebraic and combinatorial) to pseudo-distance-regularity around a set. 22nd British Combinatorial Conference. Year: 2009.
- Dalfo, C.; van Dam, E.; Fiol, M.. Perturbacions en grafos quasi distància-regulars. Segona Jornada de Joves Investigadors en Matemàtiques. Year: 2012. Link to text: Problemes de connexió a l'Eprints.
- Dalfo, C.; Fiol, M.; Garriga, E.. Moments in graphs. International Workshop on Network Topologies. Year: 2011. Link to text: <http://upcommons.upc.edu/e-prints/urlFiles?idDrac=5849126>.
- Dalfo, C.; van Dam, E.; Fiol, M.; Garriga, E.. Perturbations in almost distance-regular graphs. International Workshop on Network Topologies. Year: 2011. Link to text: <http://upcommons.upc.edu/e-prints/urlFiles?idDrac=5849095>.
- Dalfo, C.; van Dam, E.; Fiol, M.; Garriga, E.. Generalizing walk-regular graphs. Primera Trobada Matemàtica Catalano-Sueca. Year: 2010.
- Hernando, M.; Pelayo, I.; Mora, M.; Luz Puertas, M.; Cáceres, J.. On the metric dimension of infinite graphs. V Latin-American Algorithms, Graphs and Optimization Symposium. Year: 2009.
- Llado, A.. On some conjectures on Graph Decompositions. 7th International workshop on Graph Labeling. Year: 2012.
- Llado, A.. On some conjectures on graph decompositions. 1st Swedish-Catalan Conference in Mathematics. Year: 2010.
- Llado, A.. On the sumset partition conjecture. Analytic and Combinatorial Number Theory. Year: 2010. Link to text: <http://www.imsc.res.in/~icmzeta/>.
- Llado, A.. Modular Sumset Partition Problem. ICM 2010. Year: 2010.

Presentations of works in congresses

- López, S.C.; Hamidoune, Y.O.; Plagne, A.. Large restricted sumsets in Abelian groups. Primera Edició. Year: 2012. Link to text: <http://caparis2012fr.wordpress.com/programme-fr/>.
- López, S.C.. The \bigotimes_h -product of digraphs and its application to labelings. XII Seminario de Matemática Discreta. Year: 2011.
- Marcote, F.. Some properties of $(\{r, r+1\}; g)$ -cages. 22nd British Combinatorial Conference. Year: 2009.
- Marcote, F.. A lower bound on the vertex connectivity of $(\{r, r+1\}; g)$ -cages. 22nd British Combinatorial Conference. Year: 2009.
- Serra, O.. Ramsey results in groups. Analytic and Combinatorial Number Theory. Year: 2010.
- Serra, O.; Montejano, A.. Colored patterns in orthogonal arrays. 8th French Combinatorial Conference. Year: 2010.
- Serra, O.; Perarnau-Llobet, G.. Bounds on the k -th chromatic number of generalized star colorings. Joint Mathematical Conference CSASC 2010. Year: 2010.

Presentaciones de trabajos en cursos y seminarios

- Balbuena, M.. Polarity graphs and other \mathcal{C}_4 -free graphs of large size. SEMINARI DE COMBINATORIA, TEORIA DE GRAFS I APLICACIONS. Year: 2012.
- Balbuena, M.. Doc-course IMUS 2012: Triangulations and Extremal Graph Theory. Doc-course IMUS 2012: Triangulations and Extremal Graph Theory. Year: 2012.
- Balbuena, M.. COLOQUIO QUERETANO. COLOQUIO QUERETANO. Year: 2011.
- Balbuena, M.. Connectivity of cages. The Chinese National Summer School. Year: 2009.
- Balbuena, M.. The Chinese National Summer School. Connectivity of cages. Year: 2009.
- Balbuena, M.. The Chinese National Summer School on Combinatorial Optimization and Graph Theory. The Chinese National Summer School on Combinatorial Optimization and Graph Theory. Year: 2011.
- Balbuena, M.. Useful parameters to study connectivity in digraphs and in p -cycles. The Chinese National Summer School. Year: 2009.
- Ball, S.. Applications of Linear Algebra to Combinatorial Objects. CIMPA 2013 Bangkok - Graphs, Codes, Designs. Year: 2013.
- Ball, S.. MDS codes. International School on Coding Theory and its Applications. Year: 2013.
- Camara, M.. Local spectrum of the subconstituents and completely pseudo-regular codes. Seminari de Teoria de Grafs, Combinatòria i Aplicacions. Year: 2010.
- Dalfo, C.. Manhattan street network: Structure and the (Δ, N) problem. Manhattan street network: Structure and the (Δ, N) problem. Year: 2013.
- Dalfo, C.. Edge-distance-regular graphs are distance-regular. Edge-distance-regular graphs are distance-regular. Year: 2013.
- Hansberg, A.. New results on 3-domination critical graphs. SEMINARI DE COMBINATORIA, TEORIA DE GRAFS I APLICACIONS. Year: 2010.
- Hansberg, A.. k -dominación en grafos. SEMINARI DE COMBINATORIA, TEORIA DE GRAFS I APLICACIONS. Year: 2009.
- Llado, A.. Ascending Subgraph Decomposition of Bipartite Graphs. Seminari de combinatoria, teoria de grafs i aplicacions. Year: 2010.
- Mitjana, M.. Perturbing elliptic operators. Adding edges in a network. XIII Seminario de Matemática Discreta. Year: 2013.

Presentaciones de trabajos en cursos y seminarios

- Moragas, J.. Some combinatorial applications of the polynomial method. Young researcher day of the SCM. Year: 2010.
- Salas, J.. Some results on connectivity of cages. SEMINARI COMBINATÒRIA, TEORIA DE GRAFS I APLICACIONS. Year: 1997.
- Salas, J.. Semiregular cages with odd girth are edge-superconnected. SEMINARI COMBINATÒRIA, TEORIA DE GRAFS I APLICACIONS. Year: 2010.
- Espona, M.. Un Tast de Ciència, Un Tast de Tecnologia: activitat per a professorat de ciència i tecnologia i el seu alumnat amb ganes de saber-ne més. (Àmbit aeroespacial i de les telecomunicacions). Un Tast de Ciència, Un Tast de Tecnologia: activitat per a professorat de ciència i tecnologia i el seu alumnat amb ganes de saber-ne més. (Àmbit aeroespacial i de les telecomunicacions). Year: 2013.
- Balbuena, M.. New results on 3-domination critical graphs. SEMINARI DE COMBINATORIA, TEORIA DE GRAFS I APLICACIONS. Year: 2010.
- Serra, O.. Rainbow matchings: existence and counting. Graphes et Applications. Year: 2011.
- Serra, O.. On the tree-depth of random graphs. SEMINARI DE COMBINATORIA, TEORIA DE GRAFS I APLICACIONS. Year: 2010.
- Garriga, E.. Local spectrum of the subconstituents and completely pseudo-regular codes. Seminari de Teoria de Grafs, Combinatòria i Aplicacions. Year: 2010.
- Fiol, M.. Local spectrum of the subconstituents and completely pseudo-regular codes. Seminari de Teoria de Grafs, Combinatòria i Aplicacions. Year: 2010.
- Fàbrega, J.. Local spectrum of the subconstituents and completely pseudo-regular codes. Seminari de Teoria de Grafs, Combinatòria i Aplicacions. Year: 2010.
- Moragas, J.. Ascending Subgraph Decomposition of Bipartite Graphs. Seminari de combinatoria, teoria de grafs i aplicacions. Year: 2010.

Organizaciones de ediciones de congreso

- Balbuena, M. - Member of the organising committee. 3rd International Workshop on Optimal Network Topologies. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Dalfo, C. - Member of the organising committee. Applications of Graph Spectra in Computer Science. Year: 2012. Town/city: Bellaterra, Barcelona.
- Fàbrega, J. - Member of the organising committee. Conference on Applications of Graph Spectra in Computer Science 2012. Year: 2012. Town/city: Bellaterra-CRM (Barcelona). Country: Espanya.
- Fàbrega, J. - Member of the organising committee. 3rd International Workshop on Optimal Network Topologies. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Mitjana, M. - Member of the organising committee. IWONT. Year: 2010. Town/city: Barcelona.
- Serra, O. - Member of the organising committee. VII Jornadas de Matemática Discreta y Algorítmica. Year: 2010. Town/city: Castro Urdiales, Cantabria. Country: Espanya.

Organizations of editions of congress

- Ball, S. - Member of the organising committee. Graphs, Codes and Designs. Year: 2013. Town/city: Bangkok. Country: Thailand.
- Ball, S. - Member of the organising committee. CIMPA 2013 Bangkok, Graphs, Codes, Designs. Year: 2013. Town/city: Bangkok. Country: Thailand.
- Ball, S. - Member of the organising committee. CIMPA 2013 Bangkok - Graphs, Codes, Designs. Year: 2013. Town/city: Bangkok. Country: Thailand.

Organizations of editions of congress

- Serra, O. - Member of the organising committee. The degree-diameter problem. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Serra, O. - Member of the organising committee. Polymatroids. Year: 2010. Town/city: Barcelona. Country: Espanya.

Belonging in committee of edition of congress

- Fàbrega, J. - Member. IWONT 2010. Comite del 3rd International Workshop on Optimal Network Topologies. Year: 2010. Barcelona. Espanya.
- Mitjana, M. - Member. Latin Ibero-American Spectral Graph Theory Workshop 2012. Comitè Científic del congrés LIA-SGT Workshop 2012. Year: 2012. Rio de Janeiro. Brazil.
- Mitjana, M. - Member. Conference on Applications of Graph Spectra in Computer Science 2012. Comitè organitzador de Conference on Applications of Graph Spectra in Computer Science 2012. Year: 2012. Bellaterra-CRM (Barcelona). Espanya.
- Serra, O. - Member. 1st Swedish-Catalan Conference in Mathematics. 1st Swedish-Catalan Conference in Mathematics. Year: 2010. Barcelona.
- Serra, O. - Member. 8th French Combinatorial Conference. Comitè Científic. Year: 2010. París. France.
- Serra, O. - Member. VII Jornadas de Matemática Discreta y Algorítmica. VII Jornadas Matemática Discreta. Year: 2010. Castro Urdiales, Cantabria. Espanya.
- Serra, O. - Member. Joint Mathematical Conference CSASC 2010. Joint Mathematical Conference CSASC 2010. Year: 2010. Praga. Czech Republic.
- Ventura, E. - Member; Burillo, J. - Member. Sixth Barcelona Weekend in Group Theory. Barcelona Weekend in Group Theory. Year: 2011. Barcelona. Espanya.

Assistance in course or seminar

- Balbuena, M.. II Jornada de información sobre el Espacio Europeo de Educación Superior. Year: 2006. Town/city: Barcelona.
- Balbuena, M.. Jornada Científica RSME Telecomunicaciones y Matemáticas. Year: 2005. Town/city: .
- Balbuena, M.. Avances recientes en la modelización y el control del tráfico metropolitano . Year: 2005. Town/city: . Country: Espanya.
- Balbuena, M.. Aplicació de l'aprenentatge basat en problemes com alternativa a les classes expositives. Year: 2004. Town/city: Barcelona.
- Dalfo, C.. 1st Workshop on Graph-based Technologies and Applications. Year: 2013. Town/city: Barcelona.
- Dalfo, C.. Com parlar millor en públic. Year: 2013. Town/city: Barcelona.
- Dalfo, C.. Atenea 6.0. Year: 2012. Town/city: Castelldefels.
- Dalfo, C.. Drac bàsic. Year: 2011.
- Gomez, J.. Qüestionaris. Més que simples qüestions, tota una eina de correcció automàtica de problemes al teu servei. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Jornada: V dia de ATENEA. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. 6th International Barcelona Conference on higher education. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. ANÀLISI DE DADES DISCRETES. Year: 2013. Town/city: Barcelona. Country: Espanya.

Assistance in course or seminar

- Gomez, J.. EPIDEMIOLOGIA. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. SOFTWARE ESTADÍSTIC R I SAS. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Projecte final de Grau de Ciències Biomèdiques. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. PRÀCTICUM II. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. PRÀCTICUM I. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. TEORIA MATEMÀTICA DELS MERCATS FINANCERS. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. VIROLOGIA. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. FISIOPATOLOGIA. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. BIOLOGIA CEL·LULAR DE LA PATOLOGIA. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Grau en Ciències Biomèdiques. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. TÈCNiques DE DIAGNÒSTIC. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. FARMACOLOGIA. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. ENDOCRINOLOGIA MOLECULAR I SENYALITZACIÓ CEL·LULAR. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. III Dia ATENEA (5 hores). Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. L'avaluació de l'aprenentatge. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Formació, innovació i experiència docent (4 hores). Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia cultural. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicopatologia infantojuvenil. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. 5th International Barcelona Conference on higher education. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Pràcticum de la Llicenciatura de Psicologia. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Drogodependències. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Neuropsicologia infantil. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Treball pràctic. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia patològica. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicogerontologia. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Ètica. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia de les organitzacions. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Intervenció en Psicologia clínica i de la salut. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia de grups. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicofarmacologia. Year: 2010. Town/city: Barcelona. Country: Espanya.

Assistance in course or seminar

- Gomez, J.. Psicologia de l'Educació. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicopatologia. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia de la Salut. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Neuropsicologia humana. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia social aplicada i comportament col·lectiu. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Avaluacio psicologica. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicologia de la personalitat. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Adolescencia maduresa i senectut. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Psicometria. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Astronomia: La historia de l'univers. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Llicenciatura en Psicologia. Year: 2011.
- Gomez, J.. Psicologia del Pensament i del llenguatge. Year: 2006. Town/city: .
- Gomez, J.. Fonaments de Psicobiologia. Year: 2006. Town/city: .
- Gomez, J.. Anàlisi de dades en psicologia. Year: 2006. Town/city: .
- Gomez, J.. Segona jornada d'informació sobre l'espai europeu d'educació. Year: 2006. Town/city: .
- Gomez, J.. Jornada Gauss. Year: 2006. Town/city: .
- Llado, A.. Magic coverings. Year: 2005. Town/city: Praha. Country: Czech Republic.
- Llado, A.. . Year: 2004. Town/city: Bandung. Country: Indonesia.
- Llado, A.. Combinatorial Seminar. Year: 2004. Town/city: Malang. Country: Indonesia.
- Llado, A.. Decomposition of planar graphs into trees. Year: 2004. Town/city: Praha. Country: Czech Republic.
- Llado, A.. Sumsets in Cartesian Products . Year: 2004. Town/city: Paris. Country: France.
- Llado, A.. Seminar of Mathematics of the University of Yoyakarta . Year: 2001. Town/city: Yoyakarta. Country: Indonesia.
- Llado, A.. SEMINARI DE COMBINATORIA, TEORIA DE GRAFS I APLICACIONS. Year: 2000. Town/city: Barcelona. Country: Espanya.
- López, S.C.. Jornada: V Dia d'ATENEA.. Year: 2013. Town/city: Barcelona. Country: Espanya.
- López, S.C.. L'AVALUACIO DE L'APRENTATGE. Year: 2013. Town/city: Barcelona. Country: Espanya.
- López, S.C.. International Workshop on Optimal Network Topologies (IWONT) 2012. Year: 2012. Town/city: Bandung. Country: Indonesia.
- López, S.C.. Advanced course: Combinatorial Convexity. Year: 2012. Town/city: Barcelona. Country: Espanya.
- López, S.C.. Jornada: Competències docents i formació del professorat universitari. Un estudi conjunt de la universitat pública catalana. Year: 2011. Town/city: Barcelona. Country: Espanya.
- López, S.C.. Competències docents i formació del professorat universitari. Un estudi conjunt de la universitat pública catalana. Year: 2011. Town/city: Barcelona. Country: Espanya.

Assistance in course or seminar

- López, S.C.. Summer Intensive Teaching Subjects in English / Intensiu d'estiu en ensenyament d'assignatures de contingut en anglès. Year: 2011. Town/city: Castelldefels. Country: Espanya.
- López, S.C.. 5th International Barcelona Conference on Higher Education. Year: 2010. Town/city: Barcelona. Country: Espanya.
- López, S.C.. Jornada: Les assignatures de matemàtiques entre la secundària y la universitatat. Year: 2010. Town/city: Cerdanyola. Country: Espanya.
- López, S.C.. DRAC bàsic. Year: 2009. Town/city: Barcelona. Country: Espanya.
- Lozano, A.. Jornada d'Innovació Docent a la UPC. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Marcote, F.. El coaching a la docència. Year: 2010. Town/city: Barcelona. Country: Espanya.
- Miralles, A.. Summer Intensive Interactive Teacher Speaking Skills & Strategies / Intensiu d'estiu en estratègies i expressió oral per una docència interactiva (18 hores presencials). Year: 2011. Town/city: Barcelona. Country: Espanya.
- Miralles, A.. Advanced Course on Analytic and Probabilistic techniques in Combinatorics. Year: 2007. Town/city: Bellaterra.
- Mitjana, M.. DRAC i la publicació de la recerca . Year: 2012. Town/city: Barcelona. Country: Espanya.
- Mitjana, M.. INTERACTIVE TEACHER SPEAKING SKILLS & STRATEGIES / Estratègies i expressió oral per una docència interactiva. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Pelayo, I.. Introducció al MATLAB: una eina per a la recerca i la docència (15 hores). Year: 2011. Town/city: Castelldefels. Country: Espanya.
- Pelayo, I.. Atenea i la web 2.0. Year: 2011.
- Perez, S.. 1rst Workshop on Graph-based Technologies and Applications. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Perez, S.. Justícia per als animals? Una visió multidisciplinària del maltractament als animals. Year: 2011. Town/city: Barcelona. Country: Espanya.
- Perez, S.. DRAC bàsic 16a edició. Year: 2009. Town/city: Castelldefels.
- Perez, S.. CLIL methodology (Content and Language Integrated Learning) for university teachers / Metodologia CLIL (Aprentatge integrat de continguts i d'idioma) per a professorat universitari de l'EPSC. Year: 2009. Town/city: Castelldefels.
- Perez, S.. Un model centrat a l'aprenentatge. Què hi ha de diferent?. Year: 2005. Town/city: Castelldefels.
- Serra, O.. Combinatorics Seminar. Year: 2000. Town/city: Budapest. Country: Hungary .
- Serra, O.. Seminar of algebra. Year: 2000. Town/city: Budapest. Country: Hungary .
- Vilaltella Castanyer, Joan. 1rst Workshop on Graph-based Technologies and Applications. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Zaragoza, M.. Qüestionaris Moodle. Més que simples qüestions, tota una eina de correcció automàtica de problemes al teu servei. Year: 2009. Town/city: Barcelona.
- Mitjana, M.. Qüestionaris ATENEA. Més que simples qüestions, tota una eina de correcció automàtica de problemes al teu servei . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Dalfo, C.. Interactive Teacher Speaking Skills & Strategies/Estratègies i expressió oral per a una docència interactiva. Year: 2013. Town/city: Barcelona. Country: Espanya.

Assistance in course or seminar

- Zaragoza, M.. Innova days 2013. I Jornades d'Innovació docent, Qualitat i Emprenedoria . Year: 2013. Town/city: Vilanova i la Geltrú. Country: Espanya.
- Gomez, J.. Qüestionaris ATENEA. Més que simples qüestions, tota una eina de correcció automàtica de problemes al teu servei . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Fàbrega, J.. Qüestionaris ATENEA. Més que simples qüestions, tota una eina de correcció automàtica de problemes al teu servei . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Zaragoza, M.. Jornada: V Dia d'ATENEA. Year: 2013. Town/city: Barcelona. Country: Espanya.
- López, S.C.. Jornada: V Dia d'ATENEA. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Pelayo, I.. Jornada: V Dia d'ATENEA. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Gomez, J.. Jornada: V Dia d'ATENEA. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Ball, S.. Qüestionaris ATENEA. Més que simples qüestions, tota una eina de correcció automàtica de problemes al teu servei . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Muñoz, X.. Seminari sobre prevenció de Riscos Laborals: Convenis Universitat-Empresa. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Dalfo, C.. Com parlar millor en públic . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Ball, S.. Com parlar millor en públic . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Vilaltella Castanyer, Joan. JORNADA D'INNOVACIÓ DOCENT UPC 2013. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Muñoz, X.. JORNADA D'INNOVACIÓ DOCENT UPC 2013. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Aguilo, F.. JORNADA D'INNOVACIÓ DOCENT UPC 2013. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Comellas, F.. Enfocaments, mètodes i tècniques d'avaluació compartida . Year: 2013. Town/city: Barcelona. Country: Espanya.
- López, S.C.. L'avaluació de l'aprenentatge . Year: 2013. Town/city: Barcelona. Country: Espanya.
- Perez, S.. La planificació d'una assignatura guiada pels objectius d'aprenentatge. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Fàbrega, J.. Segona Jornada Docent del Grau en Enginyeria Física. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Perez, S.. Com aprèn el nostre estudiantat. Year: 2013. Town/city: Barcelona. Country: Espanya.
- Zaragoza, M.. Desenvolupament d'habilitats i atenció a persones amb discapacitat. Year: 2012. Town/city: Vilanova i la Geltrú. Country: Espanya.
- Pelayo, I.. Computació, modelització i simulació amb Maple i MapleSim. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Mitjana, M.. DRAC i la publicació de la recerca . Year: 2012. Town/city: Barcelona. Country: Espanya.
- Fàbrega, J.. Introducitori al programari MATLAB. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Zaragoza, M.. Jornada: IV Dia d'ATENEA. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Pelayo, I.. Principals utilitats d'ATENEA per a la docència al Grau en Enginyeria. Year: 2012. Town/city: Barcelona. Country: Espanya.

Assistance in course or seminar

- Aguilo, F.. Introducció als qüestionaris ATENEA i Wiris Quizzes. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Comellas, F.. Introducció als qüestionaris ATENEA i Wiris Quizzes. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Fàbrega, J.. Introducció als qüestionaris ATENEA i Wiris Quizzes. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Espona, M.. Introducció als qüestionaris ATENEA i Wiris Quizzes. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Fàbrega, J.. Primera Jornada Docent del Grau en Enginyeria Física. Year: 2012. Town/city: Barcelona. Country: Espanya.
- Zaragoza, M.. Winter Intensive Interactive Teacher Speaking Skills & Strategies / Intensiu d'hivern en estratègies i expressió oral per a una docència interactiva. Year: 2012. Town/city: Vilanova i la Geltrú. Country: Espanya.

Teaching of conference

- Conferred: Ball, S.. Conference title: A proof of the MDS conjecture over prime fields. Entity: Universitat Autònoma de Barcelona (UAB). Date: 12/09/2012. Town/city: Cardona. Country: Espanya.
- Conferred: Ball, S.. Conference title: The maximum weight of a linear code. Date: 06/09/2012. Town/city: Perugia. Country: Italy.
- Conferred: Ball, S.. Conference title: Graphs and Algebraic Combinatorics. Entity: Universitat Tilburg. Date: 16/08/2012. Town/city: Oisterwijk. Country: Netherlands.
- Conferred: Ball, S.. Conference title: An alternative way to generalise the pentagon. Date: 08/03/2012. Town/city: Magdeburg. Country: Germany.
- Conferred: Ball, S.. Conference title: Some applications of linear algebra over finite fields. Entity: Tilburg University. Date: 17/08/2011. Town/city: Oisterwijk. Country: Netherlands.
- Conferred: Ball, S.. Conference title: Some applications of linear algebra over finite fields. Entity: Institute of Mathematical Studies. Date: 01/06/2011. Town/city: Singapur. Country: Singapore.
- Conferred: Ball, S.. Conference title: 5 Day Workshop - Banff. Entity: Banff International Research Station. Date: 22/04/2011. Town/city: Banff. Country: Canada.
- Conferred: Ball, S.. Conference title: On large subsets of a finite vector space in which every subset of basis size is a basis. Date: 02/02/2011. Town/city: Avila. Country: Espanya.
- Conferred: Ball, S.. Conference title: A proof of the MDS conjecture over prime fields. Entity: Universitat Autònoma de Barcelona (UAB). Date: 17/11/2010. Town/city: Cardona. Country: Espanya.
- Conferred: Ball, S.. Conference title: A proof of the MDS conjecture over prime fields. Entity: Universitat Autònoma de Barcelona (UAB). Date: 17/11/2010. Town/city: Cardona. Country: Espanya.
- Conferred: Comellas, F.. Conference title: Redes complejas: Modelos deterministas.. Entity: Facultad de Ciencias Físicas. Universidad Complutense de Madrid. Date: 06/02/2012. Town/city: Madrid.
- Conferred: Fàbrega, J.. Conference title: Random walks on graphs. Entity: Grup de recerca COMBGRAF (UPC) i el Laboratoire d'Informatique, Robotique et Microélectronique de Montpellier (LIRMM). Date: 07/06/2011. Town/city: Barcelona. Country: Espanya.

F. Projects and intellectual and industrial

Participation in R&D calls

- Scientific coordinator: Araujo-Pardo, G.. Participants: Balbuena, M.. Jaulas y jaulas dirigidas, una investigación en gráficas, REf: 57371. 01/09/2007. 31/08/2010. Duration [YY/MM/DD]: 3/0/0. Field: National. Entity in which the research was undertaken: Universidad Nacional Autónoma de México. Fundig body: Consejo nacional de ciencia y tecnología, México. Participating entities: Universidad Nacional Autónoma de México.
- Scientific coordinator: Comellas, F.; Stevanovic, D.. Participants: Fàbrega, J.; Mitjana, M.; Dalfo, C.; Stevanovic, D.. Code of funding body: MTM2011-14531-E. WORKSHOP ON GRAPH SPECTRA APPLICATIONS IN COMPUTER SCIENCE. 01/01/2012. 31/12/2012. Duration [YY/MM/DD]: 1/0/0. Funding: 4000.00 €. Field: National. Entity in which the research was undertaken: Centre de Recerca Matemàtica (CRM). Fundig body: Ministerio de Ciencia e Innovación. Participating entities: Centre de Recerca Matemàtica (CRM).
- Scientific coordinator: Comellas, F.. TIC2000-2953-E II REUNIÓN INTERNACIONAL SOBRE REDES DE INTERCONEXIÓN. TIC2000-2953-E. 02/10/2001. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: MINISTERIO DE CIENCIA Y TECNOLOGIA.
- Scientific coordinator: Comellas, F.. TIC2000-2696-E AYUDA A CONGRESO "SIROCCO'2001". TIC2000-2696-E. 02/10/2001. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: MINISTERIO DE CIENCIA Y TECNOLOGIA.
- Scientific coordinator: Comellas, F.. 8TH. INTERNATIONAL COLLOQUIUM ON STRUCTURAL INFORMATION AND COMMUNICATION COMPLEXITY. 2000ARCS. 27/06/2001. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: GTAT.CATAL-DEPT.UNIV.I RECERCA.
- Scientific coordinator: Comellas, F.. 11TH INTERNATIONAL WORKSHOP ON INTERCONNECTION NETWORKS. 2000ARCS. 24/06/2001. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: GTAT.CATAL-DEPT.UNIV.I RECERCA.
- Scientific coordinator: Fiol, M.. Participants: Dalfo, C.. Extremal and optimization problems in graph theory and combinatorics: Applications to the analysis and algorithms in communication networks (accepted). MTM2008-06620-C03-01. 01/12/2008. 31/12/2011. Duration [YY/MM/DD]: 3/1/0. Funding: 149000.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: Ministeri d'Educació i Ciència. Participating entities: UPC.
- Scientific coordinator: Puigvi, M.. Participants: Marcote, F.. Desenvolupament i Implementació d'Unitats Docents Autocontingudes (UDA) a les assignatures d'Àlgebra. Desenvolupament i Implementació d'Unitats Docents. 01/01/2008. 31/12/2009. Duration [YY/MM/DD]: 2/0/0. Funding: 4400.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: ETSECCPB.
- Scientific coordinator: Ventura, E.. Participants: Burillo, J.; Dicks, W.; Martino, A.; Yaman, A.; Antolin, Y.; Bacardit, L.; B. Balle. Code of funding body: MCI. Métodos geométricos en Teoría de Grupos. 01/01/2009. 31/12/2011. Duration [YY/MM/DD]: 2/11/30. Funding: 90700.00 €. Field: National. Entity in which the research was undertaken: UPC. Fundig body: gobierno de españa. Ministerio de ciencia e innovación. Participating entities: UPC UAB.
- Scientific coordinator: Vidal, E.. Participants: Torres, L.; Aguilar, M.; Prat, L.; Muñoz, X.; Fernandez, M.; Hesselbach, X.; Aragonés, X.. Identificació de punts de col·laboració amb la Wollo University. 01/04/2010. 31/12/2010. Duration [YY/MM/DD]: 0/9/0. Funding: 4120.00 €. Field: International. Entity in which the research was undertaken: UPC. Fundig body: Centre Cooperació per al Desenvolupament.
- Scientific coordinator: Gavaldà, R.. Participants: Morrill, G.; Quattoni, A.J.; Arratia, A.; B. Balle; Arias, M.; Casas, B.; Bifet, A.C.; Berral, J.; Lopez, J.; Baixeries, J.; Delgado, J.; Belanche, Ll.; Castro, J.; Lozano, A.; Ferrer-i-Cancho, R.; Sierra-Santibáñez, J.. Code of funding body: TIN2011-27479-C04-03. MINERIA EN DATOS BIOLÓGICOS Y SOCIALES: ALGORITMOS, TEORIA E IMPLEMENTACION. 01/01/2012. 31/12/2014. Duration [YY/MM/DD]: 3/0/0. Funding: 98736.00 €. Field: National. Entity in which the research was undertaken: Department of Software. Fundig body: Ministerio de Ciencia e Innovación (MICINN).

Participation in R&D calls

- Scientific coordinator: Balbuena, M.. Participants: Marcote, F.; Salas, J.; Hansberg, A.; Cera, M.. Code of funding body: MTM2011-28800-C02-02. Control de invariantes en grafos sujetos a propiedades estructurales. 01/01/2012. 31/12/2014. Duration [YY/MM/DD]: 3/0/0. Funding: 113014.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: Ministerio de Ciencia e Innovación (MICINN).
- Scientific coordinator: Ventura, E.. Participants: Delgado, J.; Lopez, E.; Rubio, J.; Burillo, J.. Code of funding body: MTM2011-25955. Métodos geométricos en teoría de grupos. 01/01/2012. 31/12/2014. Duration [YY/MM/DD]: 3/0/0. Funding: 72600.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: Ministerio de Ciencia e Innovación (MICINN).
- Scientific coordinator: Fiol, M.. Participants: Aguilo, F.; Abiad, A.; Andrés, J.; Barriere, E.; Camara, M.; Ball, S.; Comellas, F.; Dalfo, C.; Fàbrega, J.; Garriga, E.; Gomez, J.; Llado, A.; López, S.C.; Miralles, A.; Mitjana, M.; Muñoz, X.; Pelayo, I.; Perez, S.; Rius, M.; Serra, O.; Vena, L.; Vilaltella Castanyer, Joan; Zaragoza, M.; Espona, M.; Sau, I.; Montejano, A.; Perarnau-Llobet, G.; Moragas, J.; Ball, S.; Vena, L.; Andres, J.; Garriga, E.. Code of funding body: MTM2011-28800-C02-01. Optimización y problemas extremales en teoría de grafos y combinatoria. Aplicacions a les redes de comunicació. 01/01/2012. 31/12/2014. Duration [YY/MM/DD]: 3/0/0. Funding: 327910.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: Ministerio de Ciencia e Innovación (MICINN).
- Scientific coordinator: Ros, R.; Fabregat, J.. Participants: Cors, J.; Gutierrez, J.; Mazon, J.; Espona, M.. Code of funding body: FP7-263239-EUNAWA. BUILDING ON THE INTERNATIONAL YEAR OF ASTRONOMY: MAKING YOUNG CHILDREN AWARE OF THE UNIVERSE. 01/01/2011. 31/12/2013. Duration [YY/MM/DD]: 3/0/0. Funding: 237252.02 €. Field: European. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: Commission of European Communities.
- Scientific coordinator: Tristancho, J.. Participants: Perez, S.. Code of funding body: TSI-020302-2010-138. TURISMAP. Generación de escenarios virtuales turísticos. 07/06/2010. 31/03/2013. Duration [YY/MM/DD]: 2/9/25. Funding: 219468.00 €. Field: National. Entity in which the research was undertaken: Castelldefels School of Telecommunications and Aerospace Engineering (EETAC) . Fundig body: Ministerio de Industria Turismo y Comercio (MITYC).
- Scientific coordinator: Comellas, F.. Participants: Fàbrega, J.; Mitjana, M.; Balbuena, M.; Serra, O.. Code of funding body: MTM2009-08119-E. INTERNATIONAL WORKSHOP ON OPTIMAL NETWORK TOPOLOGIES. 01/03/2010. 31/12/2010. Duration [YY/MM/DD]: 0/10/0. Funding: 5000.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: Ministerio de Ciencia e Innovación (MICINN).
- Scientific coordinator: Balbuena, M.. Participants: Marcote, F.; González, D.; Hansberg, A.; Salas, J.. Code of funding body: 2009 SGR 1298. PROPIETATS DE XARXES DISCRETES I LLUS APLICACIONS (PROXARDIS). 2009 SGR 1298. 23/09/2009. 30/04/2014. Duration [YY/MM/DD]: 4/7/8. Funding: 44720.00 €. Field: Regional. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: AGAUR. Agència de Gestió d'Ajuts Universitaris i de Recerca.
- Scientific coordinator: Serra, O.. Code of funding body: PIEF-GA-2009-235136 GEOSUMSETS. SOME GEOMETRIC ASPECTS OF SUM SETS. 01/09/2009. 31/05/2012. Duration [YY/MM/DD]: 2/9/0. Funding: 211133.09 €. Field: European. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: Commission of European Communities.
- Scientific coordinator: Serra, O.. Participants: Gago, S.; Garriga, E.; Comellas, F.; Fiol, M.; Moragas, J.; Fàbrega, J.; Andres, J.; Ball, S.; Dalfo, C.; Miralles, A.; Gomez, J.; Zaragoza, M.; Barriere, E.; Llado, A.; Mitjana, M.; Muñoz, X.; Aguilo, F.; Perez, S.; Aroca, J.; Rius, M.; Espona, M.; Camara, M.; López, S.C.; Pelayo, I.. Code of funding body: 2009 SGR 1387. COMBINATÒRIA , TEORIA DE GRAFS I APLICACIONS. 2009 SGR 1387. 05/08/2009. 30/04/2014. Duration [YY/MM/DD]: 4/8/26. Funding: 57200.00 €. Field: Regional. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: AGAUR. Agència de Gestió d'Ajuts Universitaris i de Recerca.

Participation in R&D calls

- Scientific coordinator: Fiol, M.. Participants: Abiad, A.; Andres, J.; Aguilo, F.; Aroca, J.; Ball, S.; Barajas, J.; Bargailla, J.; Barriere, E.; Camara, M.; Comellas, F.; Dalfo, C.; Espona, M.; Fàbrega, J.; Gago, S.; Garriga, E.; Gomez, J.; Llado, A.; López, S.C.; Miralles, A.; Mitjana, M.; Montejano, A.; Moragas, J.; Muñoz, X.; Pelayo, I.; Perarnau-Llobet, G.; Perez, S.; Rius, M.; Sau, I.; Serra, O.; Vena, L.; Vilaltella Castanyer, Joan; Zaragoza, M.; Vena, L.. Code of funding body: MTM2008-06620-C03-01. PROBLEMAS EXTREMALES Y DE OPTIMIZACIÓN EN TEORIA DE GRAFOS Y COMBINATORIA: APLICACIÓN AL ANALISIS Y ALGORITMOS DE REDES DE COMUNICAC. MTM2008-06620-C03-01. 01/01/2009. 31/12/2011. Duration [YY/MM/DD]: 3/0/0. Funding: 180290.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics IV. Fundig body: Ministerio de Ciencia e Innovación (MICINN).
- Scientific coordinator: Balbuena, M.. Participants: González, D.; Marcote, F.; Hansberg, A.; Marcote, F.; Salas, J.. Code of funding body: MTM2008-06620-C03-02. MEDIDAS DE CONECTIVIDAD Y OTRAS PROPIEDADES ESTRUCTURALES DE GRAFOS Y DIGRAFOS SIN CICLOS CORTOS. MTM2008-06620-C03-02. 01/01/2009. 31/12/2011. Duration [YY/MM/DD]: 3/0/0. Funding: 89177.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: Ministerio de Ciencia e Innovación (MICINN).
- Scientific coordinator: Ventura, E.. Participants: Burillo, J.; Martino, A.; B. Balle. Code of funding body: MTM2008-01550. Métodos geométricos en teoría de grupos. 01/01/2009. 30/06/2012. Duration [YY/MM/DD]: 3/6/0. Funding: 109747.00 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: Ministerio de Ciencia e Innovación (MICINN).

Participation in non-competitive R&D projects

- Scientific coordinator: Trisancho, J.. Participants: Gil Pons, P.; Perez, S.; Gutierrez, J.. C-08212. Start date: 01/07/2010. End date: 31/12/2015. Duration [YY/MM/DD]: 5/6/0. Funding: 600.00 €. Field: Regional. Entity in which the research was undertaken: Castelldefels School of Telecommunications and Aerospace Engineering (EETAC) . Fundig body: CLIENTS VARIS.
- Scientific coordinator: Balbuena, M.. Participants: Hansberg, A.. I-math future. Start date: 24/03/2010. End date: 24/03/2011. Duration [YY/MM/DD]: 1/0/1. Funding: 37356.11 €. Field: National. Entity in which the research was undertaken: Department of Applied Mathematics III. Fundig body: UNIVERSIDAD DE CANTABRIA.

Participation in teaching innovation projects

- Person in charge: Guardia, J.. Participants: Batlle, C.; Aguilo, F.; Prat, J.; Morillo, M.; Massana, I.; Boza, S.; Serra, O.; Muñoz, X.. Code of funding body: CAPMD2011. Title: SAGE, Matemàtiques interactives a l'abast. Start date: 01/09/2011. End date: 31/12/2012. Duration: 1 Year/s 3 Months 30 Day/s. Funding: 6000.00. Field: Regional. Type of teaching project: Teaching innovation project. Fundig body: Universitat Politècnica de Catalunya.
- Person in charge: Ginovart, M.. Participants: Ginovart, M.; Blanco, M.; Portell, X.; Jarauta-Bragulat, E.; Fabregat, J.; Pelayo, I.; Estela, M.. Code of funding body: CAPMD2008. Title: Creació de qüestionaris des de l'entorn MOODLE per a assignatures de matemàtiques i estadística corresponents a primers cursos de titulacions d'enginyeria. Start date: 01/09/2008. End date: 01/10/2009. Duration: 1 Year/s 1 Months. Funding: 3700.00. Field: Regional. Type of teaching project: Teaching innovation project. Fundig body: Institut de Ciències de l'Educació de la Universitat Politècnica de Catalunya.
- Person in charge: Gomez, J.. Code of funding body: AGAUR. Title: Pla de millora de Fase Inicial i de Fase Selectiva del Grau a la ETSETB. Start date: 01/09/2010. End date: 01/09/2011. Duration: 1 Year/s. Type of teaching project: Teaching innovation project. Fundig body: AGAUR.
- Person in charge: Prat, L.. Participants: Gomez, J.. Title: Pla de Millora de la Fase Selectiva de la ETSETB. Start date: 01/09/2007. Type of teaching project: Teaching innovation project. Fundig body: Agència de Gestió d'Ajuts Universitaris i de Recerca (Agaur).
- Person in charge: Xambo, S.. Participants: Mitjana, M.. Title: IBEMA (banc d'exercicis de matemàtiques per a l'autoaprenentatge). Start date: 01/04/2008. End date: 31/03/2009. Duration: 12 Months 4 Day/s. Field: National. Type of teaching project: Teaching innovation project. Fundig body: AGAUR.

G. Committees and societies

Membership of consulting or assessment committee

- Member: Balbuena, M.. Type of participation: Member. Name of committee: Comisiones para el acceso a los cuerpos docentes universitarios a que hacen referencia las disposiciones adicionales primera y segunda de la Ley Orgánica 4/2007. Start date: 05/10/2012.
- Member: Comellas, F.. Type of participation: Member. Name of committee: CASI Comissió Assessora Serveis d'Informació de la UPC. Entity: UPC. Start date: 01/09/1997.
- Member: Comellas, F.. Type of participation: Member. Name of committee: Cal afegir un nom de Comissió. Entity: Societat Catalana de Física. Start date: 01/01/1992.
- Member: Comellas, F.. Type of participation: Member. Name of committee: Vocal de la SCF - IEC. Entity: Societat Catalana de Física. Start date: 01/09/1991.
- Member: Comellas, F.. Type of participation: Other. Name of committee: COMISION INTERMINISTERIAL DE CIENCIA Y TECNOLOGIA. Entity: COMISION INTERMINISTERIAL CIENCIA Y TEC.. Start date: 01/01/1989.
- Member: Comellas, F.. Type of participation: Other. Name of committee: Revisor de la CICYT. Entity: CICYT. Start date: 01/01/1988.
- Member: Fàbrega, J.. Type of participation: Member. Name of committee: Comissió de doctorat del programa de doctorat "Matemàtica aplicada". Entity: UPC. Start date: 01/10/1999.
- Member: Serra, O.. Type of participation: Expert. Name of committee: Consejo de Direccion del Proyecto Ingenio Mathematica-Consolider. Entity: I-Math. Start date: 01/05/2006.
- Member: Serra, O.. Type of participation: Member. Name of committee: Ramon y Cajal. Entity: ANEP. Start date: 10/05/2005.
- Member: Serra, O.. Type of participation: Member. Name of committee: Comissio de l'Informe quadrienal de Recerca. Entity: IEC. Start date: 10/06/2003.
- Member: Serra, O.. Type of participation: Member. Name of committee: Comissió Assessora Científica. Entity: Centre de Recerca Matemàtica. Start date: 01/10/2002.
- Member: Serra, O.. Type of participation: Member. Name of committee: Comissió d'Assessorament científic. Entity: Centre de Recerca Matemàtica. Start date: 01/09/2000.
- Member: Serra, O.. Type of participation: Member. Name of committee: Comissió d'Assessorament. Entity: Centre de Recerca Matemàtica. Start date: 01/01/1999.

Membership of conference organising committee

- Member: Fàbrega, J.. Type of participation: Member. Conference (edition): IWONT 2010. Committee: Comitè del 3rd International Workshop on Optimal Network Topologies. Entity: Universitat Politècnica de Catalunya. Start date: 01/10/2009. End date: 31/12/2010.
- Member: Mitjana, M.. Type of participation: Member. Conference (edition): Latin Ibero-American Spectral Graph Theory Workshop 2012. Committee: Comitè Científic del congrés LIA-SGT Workshop 2012. Start date: 24/09/2012. End date: 28/09/2012.
- Member: Mitjana, M.. Type of participation: Member. Conference (edition): Conference on Applications of Graph Spectra in Computer Science 2012. Committee: Comitè organitzador de Conference on Applications of Graph Spectra in Computer Science 2012. Start date: 16/07/2012. End date: 20/07/2012.
- Member: Serra, O.. Type of participation: Member. Conference (edition): 1st Swedish-Catalan Conference in Mathematics. Committee: 1st Swedish-Catalan Conference in Mathematics. Start date: 15/09/2010. End date: 18/09/2010.

Membership of conference organising committee

- Member: Serra, O.. Type of participation: Member. Conference (edition): 8th French Combinatorial Conference. Committee: Comitè Científic. Start date: 28/06/2010. End date: 02/07/2010.
- Member: Serra, O.. Type of participation: Member. Conference (edition): VII Jornadas de Matemática Discreta y Algorítmica. Committee: VII Jornadas Matemática Discreta. Start date: 14/06/2010. End date: 18/06/2010.
- Member: Serra, O.. Type of participation: Member. Conference (edition): Joint Mathematical Conference CSASC 2010. Committee: Joint Mathematical Conference CSASC 2010. Start date: 13/01/2010. End date: 18/01/2010.
- Member: Ventura, E.; Burillo, J.. Type of participation: Member. Conference (edition): Sixth Barcelona Weekend in Group Theory. Committee: Barcelona Weekend in Group Theory. Start date: 15/04/2011. End date: 16/04/2011.

Membership of scientific societies

- Member: Aroca, J.. Type of participation: Member. Scientific society: SOCIETAT CATALANA DE MATEMÀTIQUES. Start date: 02/02/1995.
- Member: Burillo, J.. Type of participation: Member. Scientific society: Real Sociedad Matemática Española. Start date: 01/11/2001.
- Member: Burillo, J.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/01/2000.
- Member: Burillo, J.. Type of participation: Member. Scientific society: American Mathematical Society. Start date: 01/01/2000.
- Member: Comellas, F.. Type of participation: Member. Scientific society: Societat Catalana de Filosofia. Start date: 01/09/1989.
- Member: Comellas, F.. Type of participation: Member. Scientific society: America Mathematical Society. Start date: 01/09/1988.
- Member: Comellas, F.. Type of participation: Founding member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/09/1985.
- Member: Comellas, F.. Type of participation: Member. Scientific society: AMERICAN MATHEMATICAL SOCIETY. Start date: 01/01/1985.
- Member: Comellas, F.. Type of participation: Member. Scientific society: SOCIETAT CATALANA DE MATEMÀTIQUES. Start date: 01/01/1978.
- Member: Comellas, F.. Type of participation: Member. Scientific society: SOCIETAT CATALANA DE FÍSICA. Start date: 01/01/1978.
- Member: Dalfo, C.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/01/2005.
- Member: Fàbrega, J.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 06/11/1996.
- Member: Fàbrega, J.. Type of participation: Founding member. Scientific society: Institute of Combinatorics and its Applications. Start date: 01/01/1990.
- Member: Fàbrega, J.. Type of participation: Member. Scientific society: Unió Matemàtica Internacional. Start date: 01/01/1984.
- Member: Llado, A.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/09/2000.
- Member: Llado, A.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/02/1996. End date: 30/12/2010.

Membership of scientific societies

- Member: López, S.C.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/02/1996.
- Member: Mitjana, M.. Type of participation: Member. Scientific society: European Association for Theoretical Computer Science. Start date: 01/07/2000.
- Member: Mitjana, M.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/01/1974.
- Member: Serra, O.. Type of participation: Member. Scientific society: Center for Discrete Mathematics and Theoretical Computer Science. Start date: 01/09/2002.
- Member: Serra, O.. Type of participation: Member. Scientific society: Real Sociedad Matematica Española. Start date: 01/09/2002.
- Member: Serra, O.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/09/2002.
- Member: Serra, O.. Type of participation: Member. Scientific society: Societat Catalana de Matemàtiques. Start date: 01/10/2000.
- Member: Serra, O.. Type of participation: Member. Scientific society: Society for Industrial and Applied Mathematics (SIAM). Start date: 01/10/2000.
- Member: Serra, O.. Type of participation: Member. Scientific society: European Mathematical Society. Start date: 01/09/1997. End date: 31/12/2010.
- Member: Serra, O.. Type of participation: Member. Scientific society: SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS. Start date: 01/09/1995.

H. Contributions to publications and theses

Contribution to journal

- Collaborator: Balbuena, M.. Type of contribution: Editor. Magazine: networks. Start date: 01/01/2006.
- Collaborator: Balbuena, M.. Type of contribution: Reviser. Magazine: Ars combinatoria. Start date: 01/05/2005.
- Collaborator: Balbuena, M.. Type of contribution: Reviser. Magazine: The australasian journal of combinatorics. Start date: 01/03/2005.
- Collaborator: Ball, S.. Type of contribution: Editor. Magazine: (0047-2468) Journal of geometry (Print). Start date: 01/09/2009. End date: 09/11/2012.
- Collaborator: Ball, S.. Type of contribution: Editor. Magazine: Innovations in incidence geometry. Start date: 01/04/2005. End date: 09/11/2012.
- Collaborator: Ball, S.. Type of contribution: Editor. Magazine: (0925-1022) Designs codes and cryptography. Start date: 01/09/2002. End date: 09/11/2012.
- Collaborator: Ball, S.. Type of contribution: Editor. Magazine: (1071-5797) Finite fields and their applications. Start date: 01/09/2000. End date: 09/11/2012.
- Collaborator: Burillo, J.. Type of contribution: Collaborator. Magazine: Mathematical reviews. Start date: 01/01/2000.
- Collaborator: Comellas, F.. Type of contribution: Collaborator. Magazine: Networks. Start date: 01/08/2000.
- Collaborator: Comellas, F.. Type of contribution: Reviser. Magazine: Information processing letters. Start date: 01/10/1999.
- Collaborator: Comellas, F.. Type of contribution: Reviser. Magazine: Discrete applied mathematics. Start date: 01/01/1992.
- Collaborator: Comellas, F.. Type of contribution: Reviser. Magazine: Parallel processing letters. Start date: 01/01/1990.
- Collaborator: Comellas, F.. Type of contribution: Reviser. Magazine: Journal of graphtheory. Start date: 01/01/1990.
- Collaborator: Comellas, F.. Type of contribution: Reviser. Magazine: Networks. Start date: 01/01/1990.
- Collaborator: Fàbrega, J.. Type of contribution: Reviser. Magazine: Networks. Start date: 01/01/1994.
- Collaborator: Fàbrega, J.. Type of contribution: Reviser. Magazine: Discrete applied mathematics. Start date: 01/01/1994.
- Collaborator: Fàbrega, J.. Type of contribution: Reviser. Magazine: Discrete mathematics. Start date: 01/10/1993.
- Collaborator: Fàbrega, J.. Type of contribution: Reviser. Magazine: Parallel processing letters. Start date: 01/01/1993.
- Collaborator: Fiol, M.. Type of contribution: Reviser. Magazine: Discrete mathematics. Start date: 17/04/2006.
- Collaborator: Fiol, M.. Type of contribution: Reviser. Magazine: Journal of interconnection networks. Start date: 04/10/2004.
- Collaborator: Gomez, J.. Type of contribution: Reviser. Magazine: Journal of combinatorial optimization. Start date: 05/09/2011.
- Collaborator: Gomez, J.. Type of contribution: Reviser. Magazine: Acta mathematica sinica, english series. Start date: 17/03/2011.

Contribution to journal

- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: European journal of combinatorics. Number: 29. Volume: 7. Title of monograph: Ore-condition and Z_3 -connectivity. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: SIAM journal on computing. Number: 37. Volume: 5. Title of monograph: Oracles for distances avoiding a failed node or link.. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: Information Processing Letters. Number: 106. Volume: 6. Title of monograph: Vertex vulnerability parameters of Kronecker products of complete graphs.. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: The Australasian Journal of Combinatorics. Number: 41. Volume: 1. Title of monograph: Examples of goal-minimally k -diametric graphs for some small values of k .. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: Theoretical computer science. Number: 406. Volume: 3. Title of monograph: On the complexity of bandwidth allocation in radio networks.. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: Discrete applied mathematics. Number: 156. Volume: 15. Title of monograph: Strong structural properties of unidirectional star graphs. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviewer. Magazine: Carpathian journal of mathematics. Number: 24. Volume: 2. Title of monograph: Simple paths of maximum length in star graphs.. Start date: 01/01/2009.
- Collaborator: Gomez, J.. Type of contribution: Reviser. Magazine: Parallel processing letters. Start date: 30/07/1993.
- Collaborator: Hansberg, A.. Type of contribution: Editor. Magazine: Graphs and combinatorics. Start date: 01/08/2011.
- Collaborator: Muñoz, X.. Type of contribution: Reviser. Magazine: Discrete mathematics. Start date: 08/07/1997.
- Collaborator: Muñoz, X.. Type of contribution: Reviser. Magazine: Parallel processing letters. Start date: 20/02/1997.
- Collaborator: Perez, S.. Type of contribution: Reviser. Magazine: Discrete mathematics. Start date: 15/01/2006.
- Collaborator: Serra, O.. Type of contribution: Monograph editor. Magazine: European journal of combinatorics. Number: 4. Volume: 29. Title of monograph: Special issue on homomorphisms: structure and highlights. Start date: 01/08/2008.
- Collaborator: Serra, O.. Type of contribution: Collaborator. Magazine: Integers: electronic journal of combinatorial number theory. Start date: 01/01/2006.
- Collaborator: Serra, O.. Type of contribution: Collaborator. Magazine: Butlletí de la Societat Catalana de Matemàtiques. Start date: 01/01/2006.

Contribution to book

- Brunat, Josep M. - Editor; Fàbrega, J. - Editor; Siran, J. - Editor. *IWONT 2010 - 3rd International Workshop on Optimal Network Abstracts*. Place of publication: Barcelona. Editorial: Iniciativa Digital Politècnica. Year: 2011. ISBN: 978-84-7653-565-3.
- Moragas, J. - Editor capítol 2. *Combinatorial number theory and additive group theory*. Editorial: Birkhäuser Verlag AG. Year: 2009.

Thesis supervisor, tutor or panel member

- Author of the work: Camara, M.. Collaborator: Fàbrega, J.; Fiol, M.; Garriga, E.; Dalfo, C.. Type of contribution: Supervisor ; President; Secretari. Title of paper: ALGEBRAIC AND COMBINATORIC APPROACH TO PSEUDO-DISTANCE-REGULARITY OF GRAPHS AND COMPLETELY PSEUDO-REGULAR CODES. Type of work: Tesi doctoral. Date of ending: 15/06/2011. Entity: Universitat Politècnica de Catalunya. Link to text: http://doctorat.upc.edu/tesi/llistats.php?tipus=t3&any=2011&sbm_any=Envia.

Thesis supervisor, tutor or panel member

- Author of the work: Cabus Llauro, Emma. Collaborator: Compta, A.; Grima, P.; Mitjana, M.; Rallo, M.. Type of contribution: Supervisor ; President; Secretari; Vocal. Title of paper: Material didàctic amb Minitab per abordar l'Estadística a secundària. Type of work: Treball de Fi de Màster. Date of eading: 27/06/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Andreu Ramírez, Néstor. Collaborator: Compta, A.; Grima, P.; Mitjana, M.; Rallo, M.. Type of contribution: Supervisor ; President; Secretari; Vocal. Title of paper: L'estadística a secundària i batxillerat. Síntesi de suport. Type of work: Treball de Fi de Màster. Date of eading: 27/06/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: González, D.. Collaborator: Marcote, F.; Balbuena, M.; Fiol, M.; Fàbrega, J.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Fault tolerance results for some families of graphs. Type of work: Tesi doctoral. Date of eading: 06/11/2009. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Montejano, A.. Collaborator: Serra, O.; Hurtado, F.. Type of contribution: Supervisor ; Tutor. Title of paper: Colored combinatorial structures: homomorphisms and counting.. Type of work: Tesi doctoral. Date of eading: 09/06/2009. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Moragas, J.. Collaborator: Llado, A.; Fiol, M.; Noy, M.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Graph labelings and decompositions by partitioning sets of integers. Type of work: Tesi doctoral. Date of eading: 14/06/2010. Entity: Universitat Politècnica de Catalunya. Link to text: <http://www.tesisenxarxa.net/TDX-0708110-134932/>.
- Author of the work: Foradada , Albert. Collaborator: Ortego, M.I.; Balbuena, M.. Type of contribution: Tutor. Title of paper: Contribución al estudio de la vulnerabilidad del diámetro de los grafos composición. Type of work: Tesina. Date of eading: 27/07/2009. Entity: UPC- ETSECCPB.
- Author of the work: Sendra Garcia, Jordi. Collaborator: Robuste, F.; OLIVARES, G.; Trapote , C.; Balbuena, M.; Mora, F.; Sanchez, M.; Olivares, Gonzalo. Type of contribution: Supervisor ; Codirector; President; Secretari; Vocal. Title of paper: Anàlisi i optimització dels processos de seguretat en els aeroports. Type of work: TESINA. Date of eading: 17/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Rue, J.. Collaborator: Noy, M.; Fiol, M.; De Mier, A.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Enumeration and limit laws of topological graphs. Type of work: Tesi doctoral. Date of eading: 18/09/2009. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Sau, I.. Collaborator: Muñoz, X.; Bermond, J.; Coudert, D.; Fiol, M.; jose, P.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Optimization in graphs under degree constraints. Application to telecommunication networks. Type of work: Tesi doctoral. Date of eading: 24/07/2009. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Montserrat , Jordi. Collaborator: Serra, O.; Morillo, M.; Pfeifle, J.. Type of contribution: Examination panel member ; Supervisor . Title of paper: Planar sections of the 3- and 4-dimensional cube. Type of work: Projecte final de carrera. Date of eading: 12/11/2009. Entity: Facultat de Matemàtiques i Estadística. UPC.
- Author of the work: Vázquez, L.. Collaborator: Padro, C.; Serra, O.; Morillo, M.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Sobre la optimización de la eficiencia de los esquemas de compartición de secretos. Type of work: Tesi doctoral. Date of eading: 23/02/2010. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Fossas Tenas, Ariadna. Collaborator: Ventura, E.; Burillo, J.; Barja, M.. Type of contribution: Examination panel member ; Supervisor . Title of paper: Sistemes de generadors del grup d'automorfismes del grup lliure. Type of work: Treball de Fi de Màster. Date of eading: 02/07/2009. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Tura I brugués, Jordi. Collaborator: Xambo, S.; Acín, A.; Perez, J.; Fàbrega, J.; Villares, N.; Perez, J.. Type of contribution: Supervisor ; Ponent; Vocal; President; Secretari. Title of paper: Quantum Technologies for Information Processing. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 27/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Moreno Barreiro, Ignacio. Collaborator: Aguasca, A.; Fiol, M.; Contreras, A.; Pradell, L.; Pradell, L.. Type of contribution: President; Vocal; Supervisor ; Ponent; Secretari. Title of paper: Diseño de filtros de microondas de banda eliminada multimodales. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 18/12/2013. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Ruiz De la iglesia, Anselmo Gonzalo. Collaborator: Poveda, A.; Guinjoan, F.; Rosell, F.; Muñoz, X.; Alarcon, E.. Type of contribution: Supervisor ; Secretari; President; Vocal. Title of paper: Amplificador conmutado con asistencia lineal por derivación de corriente mediante modulación de impedancia. Type of work: TREBALL DE FI DE GRAU. Date of eading: 10/12/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: León Márquez, Carlos. Collaborator: Dalfo, C.; Reverter, F.; Gasulla, M.; Gasulla, M.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Solar Energy Harvesting for a WSN router. Type of work: PROJECTE DE FI DE MÀSTER. Date of eading: 10/12/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Muñoz, J.. Collaborator: Guinjoan, F.; Muñoz, X.; Fernandez, M.; Ramos, J.; Rosell, F.. Type of contribution: Secretari; Vocal; Supervisor ; President. Title of paper: Banda inalàmbrica que mesura l'ectrecardiograma i la respiració. Type of work: TREBALL DE FI DE GRAU. Date of eading: 10/12/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vidal Mateu, David. Collaborator: Guinjoan, F.; Rosell, F.; Muñoz, X.; Camps, A.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Attitude determination and control subsystem design. Type of work: TREBALL DE FI DE GRAU. Date of eading: 10/12/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Ramos, L.. Collaborator: Atserias, A.; Serra, O.; Noy, M.; De Mier, A.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Graph enumeration and random graphs. Type of work: PLA DE RECERCA. Date of eading: 02/12/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Diego, V.. Collaborator: Fàbrega, J.; Fiol, M.; Serra, O.; Serra, O.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: The isoperimetric problem in Johnson graphs. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 08/11/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Alcázar Alcázar, Víctor. Collaborator: Vidal, R.; Comellas, F.; Gomez, C.; Gomez, C.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Estudio de las prestaciones de IEEE 802.15.4e. Type of work: TREBALL DE FI DE GRAU. Date of eading: 14/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Planas Morell, Francesc. Collaborator: Baringo, P.; Vilajosana, J.; Fernandez, J.; Mitjana, M.. Type of contribution: Vocal; Supervisor ; President. Title of paper: Estudi de viabilitat d'un terreny. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Castellví Berini, Judit. Collaborator: Rossello, M.; Baringo, P.; Fernandez, J.; Rosell, J.; Mitjana, M.. Type of contribution: Supervisor ; Vocal; President. Title of paper: Proposta d'intervenció per a l'Edifici Taller de la fundació Obra Tutelar Agraria (Lliçà de Vall). Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Rosillo Reyes, Núria. Collaborator: Baringo, P.; Fernandez, J.; Rosell, J.; Mitjana, M.. Type of contribution: Vocal; President; Supervisor . Title of paper: Anàlisi d'una empresa de rehabilitació.. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Bascuñana Ruiz, Joan. Collaborator: Baringo, P.; Mitjana, M.; Lafont, A.; Alegre, C.; Fernandez, J.. Type of contribution: Vocal; Supervisor ; President. Title of paper: Rehabilitació i canvi d'ús de la masia de Can Prunera de Vallirana. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: García Fernández, Víctor. Collaborator: Baringo, P.; Fernandez, J.; Vilajosana, J.; Mitjana, M.. Type of contribution: Vocal; President; Supervisor . Title of paper: Utilització de containers marítims per a habitatge social. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Iglesias Amado, Ignacio. Collaborator: Baringo, P.; Mitjana, M.; Lafont, A.; Fernandez, J.; Alegre, C.. Type of contribution: Vocal; Supervisor ; President. Title of paper: Rehabilitació i canvi d'ús de la masia de Can Prunera de Vallirana. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Ardévol Pulpillo, Aina. Collaborator: Baringo, P.; Fernandez, J.; Rosell, J.; Mitjana, M.. Type of contribution: Vocal; President; Supervisor . Title of paper: Rehabilitacion de Fachadas y Cubiertas del Pabellón de San Salvador del Recinto del Hospital de Sant Pau. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 10/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Perarnau-Llobet, G.. Collaborator: Diaz, J.; Lugosi, Gabor; Tardos, Gábor; Serra, O.. Type of contribution: President; Secretari; Vocal; Supervisor . Title of paper: Random combinatorial structures with low dependencies: existence and enumeration.. Type of work: Tesi doctoral. Date of eading: 01/10/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Tristanchó, J.. Collaborator: Rojas, J.; Mellibovsky, F.; Crespo, D.; Espona, M.. Type of contribution: Supervisor ; President; Vocal. Title of paper: Spherical low-cost pico-Rovers for planetary exploration. Type of work: PROPOSTA DE TESI. Date of eading: 16/09/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Pérez Casado, Josep. Collaborator: Mora, F.; López, S.C.; Meseguer, R.; Mora, F.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Tecnologia Liferay para la creación de un espacio web dinamizador de una red científica internacional. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 12/09/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Lozano Sánchez, Miguel. Collaborator: Perez, S.; Huerta, M.; Mazon, J.; Mazon, J.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: WRF simulation of the atmospheric conditions in some aircraft accidents. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 26/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Lopez, E.. Collaborator: Roman-Roy, N.; Burillo, J.; Ventura, E.; Fàbrega, J.. Type of contribution: Vocal; Supervisor ; President; Secretari. Title of paper: Propietats mètriques de grups finitament generats. Type of work: PROPOSTA DE TESI. Date of eading: 23/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Garcia Gil, Sergio. Collaborator: Garcia-Villegas, E.; Espona, M.; Vidal, R.; Garcia-Villegas, E.. Type of contribution: Secretari; Vocal; President; Supervisor. Title of paper: Characteristics and evaluation of IEEE 802.11n standard. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 22/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Delgado, J.. Collaborator: Burillo, J.; Ventura, E.; Matucci, Francesco; Pitsch, Wolfgang. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: Extensions de Grups Lliures i els seus Automorfismes: Aspectes Algebraics i Algorísmics. Type of work: PROPOSTA DE TESI. Date of eading: 19/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Guillén Pegueroles, Bernat. Collaborator: Hesselbach, X.; Hesselbach, X.; Perez, A.; Muñoz, X.; Casademont, J.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Energy and Carbon emissions aware service allocation for Data Centers based on the Dynamic Bin Packing Problem. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 16/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Villarroya Marquina, Manuel. Collaborator: Saaltink, M.; Martin, J.; Balbuena, M.; Valls, S.. Type of contribution: Secretari; President; Supervisor ; Vocal. Title of paper: Estudio de problemas de optimización en teoría extremal de grafos. Type of work: TESINA. Date of eading: 16/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Kupfer Subi, Nicolas Esteban. Collaborator: Ramirez, R.; Brunat, Josep M.; Quer, J.; Burillo, J.. Type of contribution: Vocal; Secretari; President; Supervisor . Title of paper: Grups simples fins a ordre 1000. Type of work: TREBALL DE FI DE GRAU. Date of eading: 15/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Arroyo Giner, Juan Jose. Collaborator: Vigara, J.; Lopez, A.; Zaragoza, M.; Lopez, M.; Lopez, A.. Type of contribution: President; Ponent; Vocal; Secretari; Supervisor . Title of paper: Medida de parámetros termoelectricos en un sistema constituido por dispositivos peltier seebeck.. Type of work: TREBALL DE FI DE GRAU. Date of eading: 15/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Bellido Andres, Carlos. Collaborator: Gomez, J.; Gomez, J.; Suria Ferrer, Carles; Ybern, M.; Zaragoza, M.; Moreno, M.. Type of contribution: Supervisor ; Ponent; Secretari; President; Vocal. Title of paper: Optimització de la xarxa viaria i dels elements de circulació de Vilanova i la Geltrú part 1. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 10/07/2013. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Tomas Rovira, Jordi. Collaborator: Gomez, J.; Gomez, J.; Suria Ferrer, Carles; Ybern, M.; Zaragoza, M.; Moreno, M.. Type of contribution: Ponent; Supervisor ; Secretari; President; Vocal. Title of paper: Optimització de la xarxa viaria i dels elements de circulació de Vilanova i la Geltrú part 2. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 10/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vilches, R.. Collaborator: Oller, A.; Oller, A.; Bajet, M.; Barriere, E.; Alcober, J.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Red de sensores pervasiva para el bienestar basada en RaspberryPi. Type of work: TREBALL DE FI DE GRAU. Date of eading: 09/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Ballester Sadurní, Jordi. Collaborator: Zaragoza, M.; Chiaramonte, L.; Colomer, J.; Segura, N.; Chiaramonte, L.. Type of contribution: Vocal; Supervisor ; President; Secretari; Ponent. Title of paper: Web professional de Serveis Informàtic basat en software de codi obert. Type of work: PROJECTE EN INFORMÀTICA DE GESTIÓ. Date of eading: 08/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gasparino Benitez, J.bautista. Collaborator: Huemer, C.; Dalfo, C.; Pino, D.; Huemer, C.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Angles obtusos en conjunts de punts - un problema de Geometria combinatòria. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 04/07/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Esteve Arenas, Marta. Collaborator: Encinas, A.; Regales, J.; Jordi, L.; Espona, M.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Tres sortides de l'àmbit de tecnologia amb el corresponent material didàctic per a l'alumnat de segon d'ESO. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 26/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Martínez Del río, Laura. Collaborator: Encinas, A.; Regales, J.; Jordi, L.; Espona, M.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: La Revolució Industrial, l'eix del Crèdit de Síntesi a 2n d'ESO.. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 26/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Capdevila Fornell, Elena. Collaborator: Encinas, A.; Regales, J.; Basiana, J.; Espona, M.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Guia didàctica per a l'estudi d'un procés industrial proper: "El Pallarès". Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 26/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gonçalves, M.. Collaborator: Amante, B.; Regales, J.; Espona, M.; Encinas, A.. Type of contribution: Supervisor ; President; Secretari; Vocal. Title of paper: Anàlisi dels itineraris curriculars en l'ensenyament a secundària: propostes per a fomentar la interdisciplinarietat mitjançant el treball de recerca. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 26/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gimeno Figueras, Ignasi. Collaborator: Villasevil, F.X.; Regales, J.; Espona, M.; Encinas, A.. Type of contribution: Supervisor ; President; Secretari; Vocal. Title of paper: El joc i el debat per incentivar la motivació de l'alumnat, en l'àmbit tecnològic, a secundària. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 26/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Carballo Pulido, Javier. Collaborator: Llosa, J.; Lozano, A.; Lozano, A.; Baixeries, J.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Aplicació Kaamon! per a Android. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 25/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vallcorba Oronos, Jordi. Collaborator: Aroca, J.; Losantos, P.; Losantos, P.; Consolacion, C.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Innovative demand response services for smart grid. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 25/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vilaltella Castanyer, Joan. Collaborator: López, S.C.; Dalfo, C.; Perez, S.; Fiol, M.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: aresta-acoloriment de grafs i el lema de paritat. Type of work: PROJECTE DE TESI. Date of eading: 06/06/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Magret Garcia, Albert. Collaborator: Meseguer, R.; Comellas, F.; Royo, M.D.; Royo, M.D.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: teneaPhone. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 17/05/2013. Entity: Universitat Politècnica de Catalunya.

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- Author of the work: Alcalde Trias, Francisco Javier. Collaborator: Huemer, C.; Dalfo, C.; Lopez-Lapeña, O.; Huemer, C.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Comptatge de triangles en conjunts de punts acolorits - un problema de la Geometria combinatòria. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 14/05/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Font Ciprés, Luis. Collaborator: Huemer, C.; Dalfo, C.; Lopez-Lapeña, O.; Huemer, C.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Comptatge de triangles en conjunts de punts acolorits - un problema de la Geometria combinatòria. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 14/05/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Peinado Martínez, Pablo. Collaborator: Rincon, D.; Espona, M.; Oller, A.; Rincon, D.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Desenvolupament d'aplicacions multimèdia i d'anàlisi de trànsit de xarxa en smartphones Android. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 13/05/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Escarrà I vallmajor, Bernat. Collaborator: Montoro, G.; Tarres, F.; Tarres, F.; Burillo, J.. Type of contribution: President; Supervisor; Secretari; Vocal. Title of paper: Estudi, disseny i desenvolupament d'una aplicació mòbil pel processat de dades sensoriques sobre una plataforma de Smart Cities.. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 13/05/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vázquez Villodres, Javier. Collaborator: Quilez, M.; López, S.C.; Polo, J.; Polo, J.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Desarrollo de un vehículo autónomo con registro del recorrido mediante GPS. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 08/05/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Dall, A.. Collaborator: Alvarez, J.; Pfeifle, J.; De Mier, A.; Serra, O.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Zorotopes, Lawrence Polytopes and Shifting Facets toward Normality. Type of work: PROPOSTA DE TESI. Date of eading: 20/03/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Santiso Puigarnau, Rubén. Collaborator: Rincon, D.; Barriere, E.; Vidal, R.; Rincon, D.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Compresió, multiplexació estadística, i serveis avançats sobre TV digital terrestre. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 15/03/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Romero Guardiola, Víctor. Collaborator: Agusti, A.; Ball, S.; Casals, L.; Agusti, A.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Disseny i avaluació via simulació d'un sistema de localització de dispositius en un entorn de topologia canviant.. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 13/03/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: González Gómez, Albert. Collaborator: Cuadras, A.; Valero-Garcia, M; Perez, S.; Cuadras, A.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Implementación sistema A-SMGCS en el aeropuerto de Barcelona. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 13/03/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gavaldà García, Albert. Collaborator: Montoro, G.; Tarres, F.; Tarres, F.; Miralles, A.. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: Robust Watermarking Techniques for authentication of printed copies through digital camera capture. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 08/03/2013. Entity: Universitat Politècnica de Catalunya.
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- Author of the work: Romero Nevado, Cristina. Collaborator: Elias, A.; Dalfo, C.; Dalfo, C.; Huemer, C.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: El problema grau-nombre de vèrtexs en dígrafs de doble pas amb diàmetre unilateral. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 26/02/2013. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Fernández Arroyo, Alberto Justino. Collaborator: Gomez, M.; Campos, J.M.; Casanova, I.; Marcote, F.. Type of contribution: Supervisor ; Vocal; President; Secretari. Title of paper: Proyecto de minimización de la inundabilidad de la zona urbana del municipio de Cadaqués asociada a la riera de Sant Vicenç. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 22/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gallés I raventós, Pau. Collaborator: Marcote, F.; Balbuena, M.; Campos, J.M.; Casanova, I.; Lantada, N.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Anàlisi de la distribució de l'error dels models digitals del terreny. Aplicació a La Pobla de Lillet. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 22/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Cascajosa Pérez, Noemí. Collaborator: Fernandez, D.; Campos, J.M.; Casanova, I.; Marcote, F.. Type of contribution: Supervisor ; Vocal; President; Secretari. Title of paper: Representació litogeoquímica i hidroquímica en el MHIC25M. Aplicació als mapes 78-21 Castelló d'Empúries, 77-21 Figueres, 78-22 Sant Pere Pescador, 77-22 Navata, 77-23 Cornellà de Terri i 78-23 l'Escala.. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 22/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Portillo Silvestre, Roger. Collaborator: Peñaranda, A.; Señis, R.; Bosch, M.; Mitjana, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: AVALUACIÓ, REHABILITACIÓ ENERGÈTICA, ACONDICIONAMENT ACÚSTIC-TÈRMIC I PLA DE MANTENIMENT DEL CENTRE COMERCIAL DECATHLON CIUTAT VELLA, BARCELONA. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 19/02/2013. Entity: Universitat Politècnica de Catalunya.
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- Author of the work: Expósito Nieto, Cristina. Collaborator: Peñaranda, A.; Señis, R.; Rodriguez, I.; Mitjana, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: DIAGNOSI I PROPOSTA DE REHABILITACIÓ ENERGÈTICA D'UN EDIFICI DE PROTECCIÓ OFICIAL A SANT QUIRZE DEL VALLÈS, DINS DEL PROJECTE EUROPEU RELS.. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 19/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Redó Gómez, Gerard. Collaborator: Peñaranda, A.; Señis, R.; Rodriguez, I.; Mitjana, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: DIAGNOSI I PROPOSTA DE REHABILITACIÓ ENERGÈTICA D'UN EDIFICI DE PROTECCIÓ OFICIAL A BARCELONA, DINS DEL PROJECTE EUROPEU RELS.. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 19/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Pedreny Fargas, Oriol. Collaborator: Peñaranda, A.; Señis, R.; Rodriguez, I.; Mitjana, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: DIAGNOSI I PROPOSTA DE REHABILITACIÓ ENERGÈTICA D'UN EDIFICI DE PROTECCIÓ OFICIAL A BARCELONA, DINS DEL PROJECTE EUROPEU RELS.. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 19/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Curto Puig, Paula. Collaborator: Peñaranda, A.; Señis, R.; Bosch, M.; Mitjana, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: REHABILITACIÓ ENERGÈTICA D'UN CENTRE DOCENT DE 1928, ACONDICIONAMENT ACÚSTIC-TÈRMIC I PLA DE MANTENIMENT. INSTITUT DE L'EBRE, FERRERIES-TORTOSA (TARRAGONA). Type of work: PROJECTE DE FI DE GRAU. Date of eading: 19/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Bota Boyeras, Josep. Collaborator: Peñaranda, A.; Señis, R.; Rodriguez, I.; Mitjana, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: CERTIFICACIÓ I REHABILITACIÓ ENERGÈTICA D'UN HOTEL DE L'ANY 1974. Type of work: PROJECTE DE FI DE GRAU. Date of eading: 19/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Núñez Vera, Jordi. Collaborator: Paradells, J.; Pegueroles, J.; Pegueroles, J.; Aguilo, F.. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: Estudi i implementació del protocol de streaming http live streaming per un client i-phone. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 14/02/2013. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Calafat Garcés, Bartomeu. Collaborator: Gironella, F.; Sanchez-arcilla, A.; Campos, J.M.; Casanova, I.; Marcote, F.. Type of contribution: Supervisor ; Vocal; President; Secretari. Title of paper: Un nuevo enfoque al cálculo del riesgo de rebase en estructuras marinas. Type of work: TESINA. Date of eading: 11/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Sabaté Blanco, Jordà. Collaborator: Espino, M.; Marcote, F.; Olivares, Gonzalo; Campos, J.M.; Casanova, I.. Type of contribution: Supervisor ; Secretari; Vocal; President. Title of paper: Utilización de predicciones meteo-oceanográficas para el cálculo de rutas optimas de embarcaciones en el mar. Type of work: TESINA. Date of eading: 11/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Perez Gallart, Xavier. Collaborator: Catala, N.; Casas, B.; Esteve, J.; Esteve, J.; Zaragoza, M.. Type of contribution: President; Secretari; Ponent; Supervisor ; Vocal. Title of paper: Aplicació Web per Gestionar serveis d'entregues a domicili amb magatzem centralitzat.. Type of work: PROJECTE EN INFORMÀTICA DE GESTIÓ. Date of eading: 06/02/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Castro Gonzalez, Sergio. Collaborator: Catala, N.; Casas, B.; Esteve, J.; Esteve, J.; Zaragoza, M.. Type of contribution: President; Secretari; Supervisor ; Ponent; Vocal. Title of paper: Mòdul TPV per Tryton. Type of work: PROJECTE EN INFORMÀTICA DE GESTIÓ. Date of eading: 06/02/2013. Entity: Universitat Politècnica de Catalunya.
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- Author of the work: Varela Luque, Lluís. Collaborator: Casals, L.; Zola, E.; Comellas, F.; Casals, L.. Type of contribution: Secretari; President; Vocal; Supervisor. Title of paper: Desarrollo de una aplicación de administración dinámica de una LAN. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 21/01/2013. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Garcia Lebiere, Eduardo. Collaborator: Fabregas, F.; Fàbrega, J.; Broquetas, A.; Broquetas, A.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Simulación de un radar de alta resolución (SAR) multicanal. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 21/12/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Bastías López, Xavier. Collaborator: Rincon, D.; Burillo, J.; Vidal, R.; Rincon, D.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Evaluación de técnicas de captura y muestreo de tráfico en redes de ordenadores. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 20/12/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Salas, J.. Collaborator: Balbuena, M.; Bras, M.; Marcote, F.; Labbate, D.; Fàbrega, J.. Type of contribution: Supervisor ; Vocal; Secretari; President. Title of paper: On the Structure of Graphs without Short Cycles. Type of work: Tesi doctoral. Date of eading: 20/12/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Grueso Zopeque, Esther. Collaborator: Garcia-Villegas, E.; Dalfo, C.; Vidal, R.; Garcia-Villegas, E.. Type of contribution: Secretari; Vocal; President; Supervisor. Title of paper: Millora de la xarxa sense fils municipal WIFI MESH de Viladecans. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 19/12/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Montserrat Cantos, Marçal. Collaborator: Perez, S.; Yufera, J.; Yufera, J.; Machado, S.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Aplicación telemática para uso terapéutico utilizando Kinect para Windows y SDK v.1.6. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 19/12/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Murillo Ruiz, Alejandro. Collaborator: Perez, S.; Yufera, J.; Yufera, J.; Machado, S.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Aplicación telemática para uso terapéutico utilizando Kinect para Windows y SDK v.1.6. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 19/12/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Sáez Baena, Francisco José. Collaborator: Zarate, J.; López, S.C.; Mora, F.; Mora, F.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Desarrollo e integración en Fraktalis de un sistema de gestión de cursos SCORM destinado a la formación en el mundo marítimo. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 11/12/2012. Entity: Universitat Politècnica de Catalunya.

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- Author of the work: Portero Chavarria, Javier. Collaborator: Polo, J.; Ball, S.; Casas, J.O.; Casas, J.O.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Monitorización de las condiciones ambientales de almacenaje de grano en silos. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 30/11/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Fernández Vega, Carlos. Collaborator: Gilabert, Pere L.; Espona, M.; Montoro, G.; Montoro, G.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Caracterización de dos amplificadores clase E para un transmisor LINC @ 900 MHz. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 27/11/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Marti Bofill, Xavier. Collaborator: Gracia, V.; Sanchez, M.; Balbuena, M.; Mari, A.. Type of contribution: Vocal; Secretari; Supervisor ; President. Title of paper: Etiquetamiento gracioso de árboles. Type of work: TESINA. Date of eading: 26/11/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Serra Acebedo, Irene. Collaborator: Barriere, E.; Yufera, J.; Yufera, J.; Machado, S.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Proyecto de realidad aumentada de audio II. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 20/11/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Arcas Serrate, Blanca. Collaborator: Barriere, E.; Santos, M.; Santos, M.; Collado, J.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Advanced Orthogonal Frequency Division Multiplexing Techniques for Next Generation Optical Access Networks. Type of work: PROJECTE DE FI DE MÀSTER. Date of eading: 05/10/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Marín Garrote, Rubén. Collaborator: Comellas, F.; Yufera, J.; Yufera, J.; Machado, S.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Xarxa socio-comercial envers l'escalada. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 25/09/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Pollner Perel, Gabriel Alejandro. Collaborator: Gomez, J.; Fernandez, M.; Gorricho, J.; Gorricho, J.; Sala Roig, Cristina. Type of contribution: Vocal; President; Secretari; Ponent; Supervisor . Title of paper: Twitter weighting system. Type of work: TESI DE FI DE MÀSTER. Date of eading: 30/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gil Aleixandre, Guillermo. Collaborator: Agusti, A.; Barriere, E.; Rincon, D.; Rincon, D.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Estudio, simulación y análisis del estándar IEEE 802.3az (Energy Efficient Ethernet). Type of work: TREBALL DE FI DE CARRERA. Date of eading: 30/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Serra I musach, Jordi. Collaborator: Guillamon, A.; Comellas, F.; Fàbrega, J.; Fiol, M.; Genastar Pujana, Miquel Angel. Type of contribution: Secretari; Tutor; Vocal; President; Supervisor . Title of paper: Modelització de xarxes moleculars en cancer de mama. Type of work: PROPOSTA DE TESI. Date of eading: 24/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Arauz, C.. Collaborator: Encinas, A.; Carmona, A.; Aguilo, F.; Balbuena, M.; Mitjana, M.. Type of contribution: Supervisor ; Vocal; President; Secretari. Title of paper: El problema invers sobre xarxes finites amb frontera. Type of work: PROPOSTA DE TESI. Date of eading: 23/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Clavijo López, Hugo Alberto. Collaborator: Lopez, M.; Dalfo, C.; Dalfo, C.; Miralles, A.. Type of contribution: Vocal; Secretari; Supervisor ; President. Title of paper: El problema (Delta,N) en les xarxes Manhattan. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 19/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Comas Burcet, Jordi. Collaborator: Lopez, M.; Miralles, A.; Dalfo, C.; Dalfo, C.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: El problema (Delta,N) en les xarxes Manhattan. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 19/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Borhani Coca, Dario. Collaborator: Miralles, A.; Tristanchó, J.; Tristanchó, J.; Royo, P.. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: Use of Ram Air Turbines for electrical taxiing in Airbus 320. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 18/07/2012. Entity: Universitat Politècnica de Catalunya.

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- Author of the work: Parés Prat, Andreu. Collaborator: Miralles, A.; Tristancho, J.; Tristancho, J.; Royo, P.. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: Use of Ram Air Turbines for electrical taxiing in Airbus 320. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 18/07/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Marco Carpena, José María. Collaborator: Perez, S.; Delgado, L.; Delgado, L.; Prats, X.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Estudio de políticas de asignación de retraso para Ground Delay Program. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 17/07/2012. Entity: Universitat Politècnica de Catalunya.
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- Author of the work: Gomis Garcia, Mireia. Collaborator: Heldring, A.; Dalfo, C.; Dalfo, C.; Huemer, C.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Diàmetre unilateral en digrafs de doble pas. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 29/06/2012. Entity: Universitat Politècnica de Catalunya.
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- Author of the work: Fanés Manils, José. Collaborator: Mariño, J.; Ruiz, R.; Espona, M.; Diaz-Barrero, J.L.. Type of contribution: Secretari; Vocal; Supervisor ; President. Title of paper: Passeig en Geogebra per les matemàtiques de 4t d'ESO. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 25/06/2012. Entity: Universitat Politècnica de Catalunya.
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- Author of the work: Estruch Tena, Carlos. Collaborator: Sala-Lardies, E.; Mora, F.; OLIVARES, G.; Sanchez, M.; Balbuena, M.; Olivares, Gonzalo. Type of contribution: Supervisor ; Secretari; Vocal; President. Title of paper: DG-XFEM formulation for the unsteady incompressible Navier-Stokes equations. Type of work: TESINA. Date of eading: 16/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Puigpelat Barrado, Llätzer. Collaborator: Diez, P.; Sanchez, M.; Balbuena, M.; Mora, F.. Type of contribution: Supervisor ; Vocal; President; Secretari. Title of paper: Cotes estrictes de l'error en anàlisi isogeometrica. Aplicacio a l'equacio de Poisson. Type of work: TESINA. Date of eading: 15/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Soley Salamero, Gisela. Collaborator: Mora, F.; Aparicio, A.; Sanchez, M.; Balbuena, M.; Aparicio, A.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Puentes de fortuna. Type of work: TESINA. Date of eading: 15/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Pierola Navarro, David. Collaborator: Mora, F.; Balbuena, M.; Sanchez, M.; Roca, E.; Villares, M.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: El Mauerpark de Berlin : de línea de la mort, a zona verda de futur incert. Anàlisi social i urbanístic del àmbit d'influència del parc. Type of work: TESINA. Date of eading: 15/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Sanz Modrego, Raúl. Collaborator: Mora, F.; Sanchez, M.; Lopez, A.; Balbuena, M.. Type of contribution: Secretari; Vocal; Supervisor ; President. Title of paper: La perspectiva suiza en relacion con las lineasde alta velocidad. Type of work: TESINA. Date of eading: 15/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Salvador Villà, Jordi. Collaborator: Mora, F.; Sanchez, M.; Sauri, S.; Balbuena, M.. Type of contribution: Secretari; Vocal; Supervisor ; President. Title of paper: Pricing en la zona de almacenaje de importación de las terminales de contenedores con demanda estocástica. Type of work: TESINA. Date of eading: 15/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: De Azcoitia toribio, Enrique María. Collaborator: Mora, F.; Balbuena, M.; Olivares, Gonzalo; Sanchez, M.; Garcia, J.. Type of contribution: Secretari; President; Supervisor ; Vocal. Title of paper: Efecto de sobrecargas hidraulicas en el rendimiento de humedales construidos para la depuracion de aguas. Type of work: TESINA. Date of eading: 13/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Prieto Fort, Raúl. Collaborator: Mora, F.; Balbuena, M.; Olivares, Gonzalo; Sanchez, M.; Garcia, J.. Type of contribution: Secretari; President; Supervisor ; Vocal. Title of paper: Emisión de gases de efecto invernadero en el tratamiento de aguas residuales mediante humedales construidos. Type of work: TESINA. Date of eading: 13/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Jiménez Fuentes, Eduardo. Collaborator: Mora, F.; Sanchez, M.; Garola, A.; Balbuena, M.. Type of contribution: Secretari; Vocal; Supervisor ; President. Title of paper: Marketing Educativo, herramienta para la gestión de escuelas universitarias. Type of work: TESINA. Date of eading: 13/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vidal Gil, Salvador Germán. Collaborator: Mora, F.; Alegre, V.; Sanchez, M.; Balbuena, M.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Nanotechnology in construction. Type of work: TESINA. Date of eading: 13/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Jiménez Fuentes, Jacinto. Collaborator: Mora, F.; Balbuena, M.; Batlle, A.; Sanchez, M.; Garola, A.. Type of contribution: Secretari; President; Supervisor ; Vocal. Title of paper: Business application study of RFID technology. Type of work: TESINA. Date of eading: 13/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Rodríguez Caminero, Alberto. Collaborator: Sole, J.; Sole, J.; Magnusson, I.; Ruiz, J.; Zaragoza, M.. Type of contribution: Supervisor ; Ponent; President; Secretari; Vocal. Title of paper: Aparell didàctic per a l'estudi de l'equilibrat dinàmic. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 07/02/2012. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Xuriguera Albareda, Ramon. Collaborator: Bonet, M.; Petit, J.; Lozano, A.; Arias, M.; Arratia, A.. Type of contribution: President; Vocal; Secretari; Supervisor . Title of paper: USING TWITTER AS A SOURCE OF INFORMATION FOR TIME SERIES PREDICTION. Type of work: TESI DE MÀSTER. Date of eading: 02/02/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Raindo Portillo, José Ramón. Collaborator: Aranda, J.; Martinez, A.; Thomas, F.; Lozano, A.; Martinez, A.. Type of contribution: President; Secretari; Supervisor ; Vocal; Ponent. Title of paper: Diseño e implementación de un robot tipo ameba. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 26/01/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vicente Nuñez, Juan Pedro. Collaborator: Gelonch, A.J.; Miralles, A.; Marojevic, V.; Marojevic, V.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Modelado y gestión de recursos de SDR Clouds. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 18/01/2012. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Diaz Souto, Alberto. Collaborator: Gene, J. M.; Prat, J.; Napoli, Antonio; Serra, O.; Prat, J.. Type of contribution: President; Secretari; Supervisor ; Vocal; Ponent. Title of paper: Comparison of OFDM with single carrier in high-data rate optical communication systems. Type of work: PFC II COMUNICACIONS. Date of eading: 23/12/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: González Sosa, Jarold Aurelio. Collaborator: Aguilo, F.; Garcia, M.; Ivorra Cano, Antonio; Fernandez, M.; Garcia, M.. Type of contribution: Vocal; Secretari; Supervisor ; President; Ponent. Title of paper: Plataforma experimental para la esterilización industrial de agua mediante electroporación. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 22/12/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Campos Muñoz, Jesús. Collaborator: Pons, J.; Llado, A.; Dominguez, M.; Dominguez, M.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Sistema de ampliación para el entorno de desarrollo UNC20. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 21/12/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Laguna Martinez, Laia. Collaborator: Camps, A.; Fiol, M.; Vall-llossera, M.; Vall-llossera, M.; Piles, M.. Type of contribution: President; Vocal; Secretari; Supervisor . Title of paper: Study of high resolution soil moisture retrieval algorithms for the SMOS mission. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 14/12/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Lorente Muñoz, Marta. Collaborator: Crespo, D.; Yufera, J.; Burillo, J.; Crespo, D.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Obtaining geometries from CT scans of arteries to simulate the fluid flow of blood. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 24/11/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Abiad, A.. Collaborator: Dalfó, C.; Garriga, E.; Andres, J.; Fiol, M.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Some Applications of Linear Algebra in Spectral Graph Theory. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 16/11/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Sayols Baixeras, Narcís. Collaborator: Vallverdu, F.; Diaz-Barrero, J.L.; Xambo, S.; Xambo, S.; Fàbrega, J.. Type of contribution: Supervisor ; Vocal; Secretari; President. Title of paper: Mathematical Methods of Signal Processing. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 11/11/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Farré Vicente, Ivan. Collaborator: Crespo, D.; Lopez, J.; López, S.C.; Crespo, D.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Integration of FreeFOAM in Salome. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 09/11/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Hernández Sallés, Pol. Collaborator: Mora, F.; Casas Esplugas, C.; Sanchez, M.; Balbuena, M.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: La organització dels sistemes ferroviaris metropolitans als Estats Units. Type of work: TESINA. Date of eading: 07/11/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Martí Edo, Albert. Collaborator: Soneira, M.J.; Aroca, J.; Ruiz-Moreno, S.; Soneira, M.J.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Estudio sobre la optimización de la detección del efecto Raman frente a la fluorescencia: aplicación a obras de arte. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 02/11/2011. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Fernández Álvarez, Héctor. Collaborator: Vidal, R.; Gomez, C.; Rius, M.; Casals, L.; Casals, L.. Type of contribution: Supervisor ; President; Vocal; Secretari. Title of paper: Implementació d'una solució domòtica basada en sensors (3). Type of work: TREBALL DE FI DE CARRERA. Date of eading: 20/10/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Durán Limón, Francisco Diego. Collaborator: Casals, L.; Casals, L.; Rius, M.; Vidal, R.; Gomez, C.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Implementació d'una solució domòtica basada en sensors (3). Type of work: TREBALL DE FI DE CARRERA. Date of eading: 20/10/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Salas, J.. Collaborator: Hansberg, A.; Fàbrega, J.; Marcote, F.; Balbuena, M.. Type of contribution: Vocal; President; Secretari; Supervisor . Title of paper: On the structure of graphs without short cycles. Type of work: PROPOSTA DE TESI. Date of eading: 22/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Montejano Cantoral, Luis Pedro. Collaborator: Marcote, F.; Fàbrega, J.; Balbuena, M.. Type of contribution: Secretari; President; Supervisor . Title of paper: RESTRICTED CONNECTIVITY IN FAMILIES OF GRAPHS. Type of work: Tesi doctoral. Date of eading: 15/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gálvez Nuñez, Jonathan. Collaborator: Miralles, A.; Comellas, F.; Zola, E.; Espona, M.; Comellas, F.. Type of contribution: Supervisor ; Secretari; Vocal; President. Title of paper: Estudi d'un model de generació i optimització de xarxes complexes basat en l'excentricitat. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 13/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Retamar Ortega, Laura. Collaborator: Comellas, F.; Comellas, F.; Zola, E.; Espona, M.; Miralles, A.. Type of contribution: Secretari; Supervisor ; Vocal; President. Title of paper: Estudi d'un model de generació i optimització de xarxes complexes basat en l'excentricitat. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 13/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gallegos Cervilla, Rubén. Collaborator: Nogueiras, A.; Comellas, F.; Comellas, F.; Aguilo, F.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Optimització de xarxes a partir del grau d'intermediació dels enllaços. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 07/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Rovira Trenc, Manel. Collaborator: Fàbrega, J.; Perez, A.; Comellas, F.; Comellas, F.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Un programari per l'estudi de passeigs aleatoris en grats: aplicacions a problemes de coherència i temps de primer pas.. Type of work: PFC II (SENSE ESPECIALITAT). Date of eading: 06/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Ambrós Moreno, Jordi. Collaborator: Gilabert, Pere L.; Espona, M.; Montoro, G.; Montoro, G.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Design and assembly of a class E power amplifier. Type of work: PROJECTE DE FI DE MÀSTER. Date of eading: 05/09/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Herrera, A.. Collaborator: Rincon, D.; Barriere, E.; Raspall, F.; Raspall, F.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Disseny i implementació d'un mòdul de monitorització de LSPs per xarxes amb suport MPLS. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 29/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Martí Cudinach, Carlos Ramon. Collaborator: Vilaltella Castanyer, Joan; Santamaria, E.; Royo, P.; Royo, P.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Integración y validación de eDEP en la plataforma de simulación ISIS. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 28/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: De La torre gonzalez, Alex. Collaborator: Perez, S.; Gallardo, A.; Tristancho, J.; Perez, S.. Type of contribution: Secretari; Vocal; President; Supervisor . Title of paper: Design and implementation of a first stage nozzle for a low cost mini-launcher. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 28/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Campón Lora, Francisco Manuel. Collaborator: Perez, S.; Tristancho, J.; Tristancho, J.; Vilaltella Castanyer, Joan. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: Diseño e implementación del sistema de elevación vertical de un simulador de vuelo. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 27/07/2011. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Ruizhi, Yuan. Collaborator: Gil Pons, P.; Perez, S.; Gutierrez, J.; Gutierrez, J.; Tristancho, J.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Study and implementation of the stability and control system of a mini-launcher. Type of work: TESI DE MÀSTER. Date of eading: 26/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Raventos, A.. Collaborator: Montoro, G.; Burillo, J.; Tarres, F.; Tarres, F.. Type of contribution: President; Vocal; Supervisor ; Secretari. Title of paper: Descriptors de Moviment per l'anàlisi del contingut audiovisual. Type of work: TREBALL DE FI DE CARRERA (DOBLES TITULACIONS). Date of eading: 25/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Garau Bezzina, Laura. Collaborator: Garcia-berro, E.; Miralles, A.; Zarate, J.; Zarate, J.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Introducción de las escorias, procedentes de la incineración, en las capas granulares y fabricación de hormigones de los firmes aeroportuarios. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 25/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Segura Revilla, Francesc. Collaborator: Alvarez-Lacalle, E.; Dalfo, C.; Miralles, A.; Comellas, F.; Comellas, F.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: Un model per a la xarxa global d'aeroports basat en el grau d'intermediació d'enllaços.. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 25/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Bassa Parpal, Francesc. Collaborator: Crespo, D.; Tristancho, J.; Barriere, E.; Crespo, D.. Type of contribution: Secretari; President; Vocal; Supervisor . Title of paper: Optimization of a racecar simulator. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 22/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Toporcer Korec, Norman. Collaborator: Dalfo, C.; Santos, M.; Santos, M.; Villares, N.. Type of contribution: Vocal; Supervisor ; Secretari; President. Title of paper: Adaptive Loading Algorithms for optical OFDM transmission systems. Type of work: TREBALL DE FI DE CARRERA. Date of eading: 20/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Genzor Aragonés, Isaac. Collaborator: Rojas, J.; Mellibovsky, F.; Jove-Casulleras, R.; Jove-Casulleras, R.; Comellas, F.. Type of contribution: President; Supervisor ; Secretari; Vocal. Title of paper: CFD simulation of a jet engine turbine stage. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 20/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Fossas Tenas, Ariadna. Collaborator: Roman-Roy, N.; Muñoz-Lecanda, Miguel C.; Olivares, Gonzalo; Ventura, E.; Burillo, J.. Type of contribution: Secretari; President; Supervisor ; Vocal. Title of paper: Grups de Thompson. Type of work: PROPOSTA DE TESI. Date of eading: 19/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Vázquez Navarro, Óscar. Collaborator: Vilaltella Castanyer, Joan; Martinez Tristancho, Juan; Pastor, E.; Pastor, E.. Type of contribution: Vocal; President; Supervisor ; Secretari. Title of paper: On-Board Autonomous Conflict Detection for UAS Platforms. Type of work: TREBALL DE FI DE CARRERA (AERONÀUTICA). Date of eading: 19/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Hidalgo Barea, Albert. Collaborator: Meseguer, R.; Rius, M.; Royo, M.D.; Meseguer, R.. Type of contribution: Secretari; Vocal; President; Supervisor. Title of paper: Analysis and evaluation of high performance web servers. Type of work: PROJECTE DE FI DE MÀSTER. Date of eading: 13/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Bohmova, Katerina. Collaborator: Serra, O.; De Mier, A.; Noy, M.; Fàbrega, J.. Type of contribution: President; Secretari; Supervisor ; Vocal. Title of paper: Characterizations of classes of graphs by forbidden minors. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 06/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Perarnau-Llobet, G.. Collaborator: Diaz, J.; Noy, M.; Fiol, M.; Serra, O.. Type of contribution: President; Secretari; Vocal; Supervisor . Title of paper: Random Combinatorial Structures with low dependencies: existence and enumeration. Type of work: PROPOSTA DE TESI. Date of eading: 06/07/2011. Entity: Universitat Politècnica de Catalunya.

Thesis supervisor, tutor or panel member

- Author of the work: Pau Gámez, Jose Manuel. Collaborator: Santos, G.; Lozano, A.; Santos, G.; Sole, J.. Type of contribution: Supervisor ; Vocal; Secretari; President. Title of paper: Mejora de la eficiencia energética de una red Campus. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 05/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Gràcia Lavedan, Esther. Collaborator: Langohr, K.; Mitjana, M.; Perez, N.; Langohr, K.. Type of contribution: Secretari; Vocal; President; Ponent. Title of paper: Comparació entre els models lineals i els models additius generalitzats: Anàlisi geogràfica i temporal dels nivells de Trihalometans en l'aigua de consum a Sabadell.. Type of work: PROJECTE DE FI DE CARRERA. Date of eading: 05/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Delgado Rodríguez, Jorge. Collaborator: Burillo, J.; Ventura, E.; Ventura, E.. Type of contribution: President; Supervisor ; Secretari. Title of paper: PROBLEMES ALGORITMICS EN GRUPS LLIURE-PER-LLIURE ABELIA. Type of work: TREBALL DE FI DE MÀSTER. Date of eading: 04/07/2011. Entity: Universitat Politècnica de Catalunya.
- Author of the work: Padrol Sureda, Arnau. Collaborator: Pfeifle, J.; Muntés, V.; Serra, O.; Larriba, J.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Overlapping communities in graphs. Type of work: Projecte final de carrera. Date of eading: 16/07/2009. Entity: Facultat de Matemàtiques i Estadística. UPC.
- Author of the work: González Cobas, Jessica Verónica. Collaborator: Garcia-Lozano, M.; Perez, D.; Miralles, A.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Software para el Apoyo en la Continuidad de Negocio y Recuperación en Caso de Desastres en la Empresa. Type of work: Projecte final de carrera. Date of eading: 29/04/2009. Entity: Escola Politècnica Superior de Castelldefels (EPSC).
- Author of the work: Garrido Luque, Óscar. Collaborator: Quesada, R.; Perez, D.; Perez, S.. Type of contribution: Supervisor ; Examination panel member . Title of paper: Desenvolupament d'una eina de processat de senyal per a dades espectrals. Type of work: Projecte final de carrera. Date of eading: 21/01/2009. Entity: Escola Politècnica Superior de Castelldefels (EPSC).

I. Personal acknowledgements

Awards and acknowledgements

- Rewarded: Balbuena, M.; Marcote, F.. Name of award (edition): Awarded paper as Top Cited Article 2005-2010. Year: 2011. Grounds/work acknowledged: EL PAPER TITULADO "On the restricted connectivity and superconnectivity in graphs with given girth Discrete Math., 307(6) (2007) 659-667. doi:10.1016/j.disc.2006.07.016" RECIBIÓ MÁS DE 15 CITAS ISI EN EL PERIODO 2005-2009. Date of resolution: 20/10/2010. Result: Consolation prize. Awarding body: ELSEVIER.
- Rewarded: Gomez, J.. Name of award (edition): Felicitació per la labor docent. Year: 2011. Grounds/work acknowledged: Felicitació de l'equip directiu i del Sotsdirector de Professorat i Planificació Acadèmica (en el seu propi nom) de la E.T.S.E.T.B. per la meua labor docent, la qual va estar excepcionalment valorada pels meus estudiants en l'enquesta realitzada per la Universitat, durant l'any acadèmic 2009-2010.. Date of resolution: 18/11/2011. Result: Consolation prize. Awarding body: E.T.S.E.T.B. - UPC.
- Rewarded: Gomez, J.. Name of award (edition): Felicitació del Sotsdirector per la labor docent. Year: 2009. Grounds/work acknowledged: Felicitació del Sotsdirector de Professorat i Planificació Acadèmica de la E.T.S.E.T.B. per la meua labor docent, la qual va estar excepcionalment valorada pels meus estudiants estudiants l'any acadèmic 2008-2009 (la meua nota va ser de 4,8).. Date of resolution: 10/02/2011. Result: Consolation prize. Awarding body: E.T.S.E.I.B..
- Rewarded: Hansberg, A.. Name of award (edition): Borchers-Plakette. Year: 2009. Grounds/work acknowledged: Reconocimiento a la excelente tesis doctoral "Multiple Domination in Graphs". Result: Consolation prize.

Obtaining help-scholarship

- Perceptores: Mitjana, M.. Name of grant or scholarship: Acció Integrada (ACI) Concordia University (Montreal, Quebec, Canada). Entity: : Generalitat de Catalunya. Date awarded: 31/01/1999.
- Perceptores: Mitjana, M.. Name of grant or scholarship: ACCION INTEGRADA (aci) ÉCOLE NORMAL SUPERIEUR. LYON. Entity: : Generalitat de Catalunya. Date awarded: 31/01/1997.
- Perceptores: Hansberg, A.. Name of grant or scholarship: Juan de la Cierva. Entity: : Ministerio de Ciencia e Innovación. Date awarded: 01/01/2012. Duration: 3 Year/s.
- Perceptores: Hansberg, A.. Name of grant or scholarship: FUTURE i-Math. Entity: : Ministerio de Ciencia e Innovación. Date awarded: 01/05/2010. Duration: 1 Year/s 5 Months 2 Day/s.
- Perceptores: Hansberg, A.. Name of grant or scholarship: Graduiertenförderung nach Richtlinien zur Förderung des wissenschaftlichen Nachwuchses der RWTH Aachen. Entity: : RWTH Aachen University. Date awarded: 01/10/2006. Duration: 2 Year/s 11 Months.
- Perceptores: López, S.C.. Name of grant or scholarship: Estancias de movilidad en el extranjero "José Casillejo" para jóvenes doctores. Entity: : Ministerio de Educación y Ciencia. Date awarded: 01/02/2011. Duration: 4 Months 29 Day/s. Amount of the aid: 15200.00.
- Perceptores: López, S.C.. Name of grant or scholarship: Estancias de movilidad en el extranjero "José Casillejo" para jóvenes doctores. Entity: : Ministerio de Educación y Ciencia. Date awarded: 01/03/2009. Duration: 4 Months. Amount of the aid: 10250.00.

J. Stays and other activities

Stays in R&D centres

- Participant: Llado, A.. Type of participation: Guest. Name of centre: Institut Teknologi Bandung. Purpose of stay: Research. Tasks testable: Participació IWOGL12, IWONT12, Conferències convidades, Sessions amb estudiants de doctorat. Start date: 23/07/2012. End date: 23/08/2012.
- Participant: Llado, A.. Type of participation: Guest. Name of centre: Institute of Mathematical Sciences. Purpose of stay: Research. Tasks testable: Participació en la ICM2010 Satellite Conference on Analytic and Combinatorial Number Theory. Start date: 17/08/2010. End date: 05/09/2010.
- Participant: Llado, A.. Type of participation: Guest. Name of centre: Institute of Mathematical Sciences Chennai. Purpose of stay: Research. Tasks testable: Participació a la Satellite Conference ICM2010.. Start date: 12/07/2010. End date: 12/08/2010.
- Participant: Llado, A.. Type of participation: Guest. Name of centre: Technical University BAndung. Purpose of stay: Teaching. Tasks testable: CIMPA-UNESCO School. Start date: 25/01/2009. End date: 15/02/2009.
- Participant: Salas, J.. Type of participation: Guest. Name of centre: Universita degli Studi della Basilicata. Purpose of stay: Research. Tasks testable: Elaboración de un artículo de investigación en colaboración con los profesores M. Abreu y D.Labbate de dicha universidad. Start date: 01/03/2012. End date: 31/05/2012.

Other activities

- Participant: Balbuena, M.. Activity title: Membre tribunal tesis doctoral Klara Stokes. Description: Títol Tesis : Combinatorial Structures For Anonymous Database Search. Universitat Rovira i Virgili. Start date: 18/10/2011. End date: 18/10/2011.
- Participant: Balbuena, M.. Activity title: presidenta tribunal. Description: Segons l'aprovació de la Subcomissió de Doctorat de la Universitat de Lleida, s'ha resolt nomenar a la professora Camino Balbuena, presidenta del Tribunal que ha de jutjar l'examen de suficiència investigadora per a l'atorgament del Diploma d'Estudis Avançats (DEA) del programa Enginyeria 0001.. Start date: 27/09/2010. End date: 27/09/2010.
- Participant: Fàbrega, J.. Activity title: Reconeixement d'activitat docent 5è tram. Description: Nivell 29, de 1/10/98 fins al 30/9/03. Start date: 30/12/2003.
- Participant: Fàbrega, J.. Activity title: Reconeixement d'activitat investigadora. Description: Valoració positiva del 4rt. tram, nivell 29, 1997-2002. Start date: 01/01/2003.
- Participant: Gomez, J.. Activity title: Professor tutor per a alumnes de Grau de la ETSETB 2013-2014. Start date: 13/07/2013. End date: 31/08/2014.
- Participant: Gomez, J.. Activity title: Professor tutor per a alumnes de Grau de la ETSETB 2012-2013. Description: Tutorització d'alumnes de Grau de la ETSETB. Start date: 01/09/2012. End date: 31/08/2013.
- Participant: Gomez, J.. Activity title: Professor tutor per a alumnes de Grau de la ETSETB 2011-2012. Description: Tutorització d'alumnes de Grau de la ETSETB. Start date: 01/09/2011. End date: 31/08/2012.
- Participant: Gomez, J.. Activity title: Professor tutor per a alumnes de Grau de la ETSETB. Description: Tutorització d'alumnes de Grau de la ETSETB. Start date: 01/09/2010. End date: 31/08/2011.
- Participant: López, S.C.. Activity title: Estada Post-doctoral al Laboratoire de Combinatoire et Optimisation (Universitat Pierre et Marie Curie). Description: Mobilitat amb finançament per beca "José Castillejo". Start date: 01/02/2011. End date: 30/06/2011.
- Participant: López, S.C.. Activity title: Estada Post-doctoral al Laboratoire de Combinatoire et Optimisation (Universitat Pierre et Marie Curie). Description: Mobilitat amb finançament per beca "José Castillejo". Start date: 01/03/2009. End date: 30/06/2009.