

Fondecyt Regular 2011 – Proyectos aprobados como Institución Principal

| Nº PROYECTO | TÍTULO | INVESTIGADOR RESPONSABLE | DEPARTAMENTO |
|-------------|--|----------------------------------|--------------------------------------|
| 1110100 | Insights on the properties and origin of the local (Orion) spiral arm | Edgardo Costa Hechenleitner | Depto. de Astronomía |
| 1110007 | Phase transformations and strengthening during aging of Cu-NiX alloys | Eduardo Donoso Catalán | Depto. de Ciencia de Los Materiales |
| 1110148 | Stress in silver-doped diamond-like-carbon (Ag-DLC) coatings and multilayers | Braulio Pujada Bermudez | Depto. de Ciencia de Los Materiales |
| 1110206 | Synthesis and Characterization of Polynuclear Metal Complexes Containing Dendritic or Dendronic Ligands as Single-Molecule Magnets | Mónica Soler J. | Depto. de Ciencia De Los Materiales |
| 1110051 | Modular and Adaptable Software without Losing Control | Eric Tanter | Depto. de Ciencias de la Computación |
| 1110066 | Compact Data Structures for Information Retrieval | Gonzalo Navarro Badiño | Depto. de Ciencias de la Computación |
| 1110111 | Interest Points Detection Algorithms for 3D Shape Matching | Benjamín Eugenio Bustos Cárdenas | Depto. de Ciencias de la Computación |
| 1110171 | New models and query languages for emerging applications of semistructured data | Pablo Barceló Baeza | Depto. de Ciencias de la Computación |
| 1110287 | Web Data for Linked Data | Claudio Gutierrez Gallardo | Depto. de Ciencias de la Computación |
| 1110144 | Wave transport in spatially extended heterogeneous systems | Felipe Barra De la Guarda | Depto. de Física |
| 1110151 | Oxidation kinetics of systems with low dimensionality: application to Ni thin films and nanoparticles | Judit Lisoni Reyes | Depto. de Física |
| 1110154 | Extended systems of rare earth | María Teresa Garland Rodríguez | Depto. de Física |
| 1110168 | Electrochemical and Hydrothermal Growth of Zirconia Nanostructures on Solid Surfaces | Víctor Fuenzalida Escobar | Depto. de Física |
| 1110271 | Quantum Effects in Molecular Electronics: a tale of many electrons | Alvaro Núñez Vásquez | Depto. de Física |

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| 1110169 | Frontal modification by complex topography in south-central Chile | René Garreaud Salazar | Depto. de Geofísica |
| 1110093 | Understanding the late Carboniferous - early Jurassic igneous processes and evolution of the north Chilean portion of Gondwana: a geochronological, stratigraphic, petrological and paleomagnetic approach. | Víctor Maksaev Jurchuc | Depto. de Geología |
| 1110345 | Origin and Evolution of the Coastal Cordillera Ophiolite Complex, Central Chile | Fernando Barra P. | Depto. de Geología |
| 1110124 | A Dynamic Urban Equilibrium Model: Theoretical Framework and Model Specification | Francisco Javier Martínez Concha | Depto. de Ingeniería Civil |
| 1110047 | Hybrid Fuzzy Predictive Control For Renewable Energy Plants | Doris Sáez Hueichapan | Depto. de Ingeniería Eléctrica |
| 1110070 | Risk-Sensitive Particle Filtering Framework for Failure Prognosis and Uncertainty Representation in Nonlinear Systems with High-Impact/Low-Likelihood Events | Marcos Orchard Concha | Depto. de Ingeniería Eléctrica |
| 1110145 | Universal Estimation of Information Measures and Applications | Jorge Silva Sánchez | Depto. de Ingeniería Eléctrica |
| 1110579 | Advances in Robot perception and mapping in challenging environments | Martin Adams K. | Depto. de Ingeniería Eléctrica |
| 1110701 | Advances Neural Networks and Information Theoretic Learning Methods for Times Series Analysis: Applications to Astronomical Light Curves and Biomedical Signals | Pablo Estévez Valencia | Depto. de Ingeniería Eléctrica |
| 1110116 | Kinetics and design of metallurgical processes for the production of alloys and oxides of molybdenum, rhenium and tungsten and for the separation Mo-Re-W species in solution | Luis Cifuentes Seves | Depto. de Ingeniería de Minas |
| 1110173 | Study of bubble coalescence prevention in the presence of frothers by means of bubble acoustic emissions in flotation systems | Willy Andres Kracht Gajardo | Depto. de Ingeniería de Minas |
| 1110024 | Algorithmic and Computational Aspects of Mixed Integer Programming | Daniel Espinoza González | Depto. de Ingeniería Industrial |
| 1110052 | Financial market imperfections and economic performance | Ronald Fischer Barkan | Depto. de Ingeniería Industrial |

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| 1110797 | Graphs and combinatorial Optimization: theory and applications | Guillermo Durán M. | Depto. de Ingeniería Industrial |
| 1111047 | Portfolio risk management by transnational firms: the consequences of unequal environmental policy | Raúl O'Ryan Gallardo | Depto. de Ingeniería Industrial |
| 1110181 | Asymptotic patterns in nonlinear elliptic and parabolic problems | Manuel Del Pino Manresa | Depto. de Ingeniería Matemática |
| 1110290 | Inverse problems in PARTIAL Differential Equations with Applications | Axel Osses Alvarado | Depto. de Ingeniería Matemática |
| 1110291 | Problems in nonlinear elliptic equations: Fractional Laplacians, Integral Equations and Non-divergence Form Operators | Patricio Felmer Aichele | Depto. de Ingeniería Matemática |
| 1110888 | Second-order optimality conditions for conic programming; Their implications in sensitivity and algorithmic aspects | Hector Ariel Ramírez Cabrera | Depto. de Ingeniería Matemática |
| 1110923 | Variational properties and long-time behavior of some Markov processes and applications. | Joaquín Fontbona Torres | Depto. de Ingeniería Matemática |
| 1111012 | Variational approach for image processing problems | Jaime Ortega Palma | Depto. de Ingeniería Matemática |
| 1110008 | Mechanical characterization of cerebral aneurysms and the effects on fluid-structure and structural simulations in patient specific models | Alvaro Valencia Musalem | Depto. de Ingeniería Mecánica |
| 1110078 | Development of Polymer/Copper Nanoparticle Composites with Novel Technological Applications | Humberto Palza Cordero | Depto. de Ingeniería Química y Biotecnología |
| 1110184 | Study of the activity in WGS and PROX of a high surface area Cu-Ce/ZrO ₂ catalysts obtained by a non conventional preparation reflux method. | Paulo Araya Figueroa | Depto. de Ingeniería Química y Biotecnología |

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| Nº PROYECTO | CO-INVESTIGADOR | DEPARTAMENTO |
|-------------|-----------------|---------------------------------|
| 1110019 | Rafael Correa | Depto. de Ingeniería Matemática |
| 1110674 | Daniel Espinoza | Depto. de Ingeniería Industrial |
| 1110914 | Francisco Hervé | Depto. de Geología |