

**PROGRAM IDEI_PROIECTE DE CERCETARE EXPLORATORIE_COMPETITIA 2011
MATEMATICA SI INFORMATICA**

NR. CRT.	COD PROIECT	NUME DIRECTOR	PRENUME DIRECTOR	INSTITUTIE	TITLU	BUGET APROBAT 2014
1	PN-II-ID-PCE-2011-3-0024	Kassay	Gabor	Universitatea Babes-Bolyai din Cluj-Napoca	The structure and sensitivity of the solution sets of variational inequalities, optimization and equilibrium problems under generalized monotonicity	115,000
2	PN-II-ID-PCE-2011-3-0027	Barbu	Viorel	Academia Romana - Filiala Iasi	Analysis and control of deterministic and stochastic diffusion equations	195,422
3	PN-II-ID-PCE-2011-3-0039	Militaru	Gigel	Universitatea din Bucuresti	Hopf algebras and related topics	168,750
4	PN-II-ID-PCE-2011-3-0045	Ionescu	Ioan R.	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Mathematical Modeling of Ductile Rupture	195,755
5	PN-II-ID-PCE-2011-3-0052	Vrabie	Ioan	Universitatea "Alexandru Ioan Cuza" din Iasi	Retarded Functional Differential Inclusions in Banach Spaces	188,925
6	PN-II-ID-PCE-2011-3-0075	Ignat	Ioan Liviu	Institutul de Matematica "Simion Stoilow" al Academiei Române	Analysis, Control and Numerical Approximations of Partial Differential Equations	216,877
7	PN-II-ID-PCE-2011-3-0084	Zalinescu	Constantin	Universitatea "Alexandru Ioan Cuza" din Iasi	Regularity and sensitivity in multicriteria optimization	158,750
8	PN-II-ID-PCE-2011-3-0087	Mortici	Cristinel	Universitatea Valahia din Targoviste	Methods and Algorithms in Asymptotic Analysis of Gamma and Related Functions with Applications	128,500
9	PN-II-ID-PCE-2011-3-0094	Precup	Radu	Universitatea Babes-Bolyai din Cluj-Napoca	Operator Methods for Nonlinear Systems and Applications	161,250
10	PN-II-ID-PCE-2011-3-0118	Ornea	Liviu	Universitatea din Bucuresti	Locally conformally Kaehler geometry and related structures	156,625
11	PN-II-ID-PCE-2011-3-0119	Timotin	Dan Grigore	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Multidimensional operator theory: reproducing kernel spaces, noncommutative functions, moment problems, and generalized dilation results	183,736
12	PN-II-ID-PCE-2011-3-0131	Beltita	Daniel	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Operator Calculus for Lie Group Representations, with Applications to PDE and Quantum Physics	248,622

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13	PN-II-ID-PCE-2011-3-0154	Carja	Ovidiu	Universitatea "Alexandru Ioan Cuza" din Iasi	Qualitative properties of the solution set of differential inclusions	204,830
14	PN-II-ID-PCE-2011-3-0171	BALINT	MARIA-AGNETA	Universitatea de Vest din Timisoara	ANALYSIS OF SOME MATHEMATICAL PHYSICS PROBLEMS OCCURRING IN THE SOUND ATTENUATION IN AN ACOUSTICALLY LINED DUCT CARRYING A GAS FLOW	99,072
15	PN-II-ID-PCE-2011-3-0195	Radulescu	Vicentiu	Universitatea din Craiova	Qualitative and numerical analysis of nonlinear problems on fractals	186,948
16	PN-II-ID-PCE-2011-3-0198	HALANAY	ANDREI	Universitatea Politehnica din Bucuresti	Qualitative study of differential equations with time lag with applications to modeling and simulation of leukemia treatment	177,550
17	PN-II-ID-PCE-2011-3-0211	Tiba	Dan	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Shape optimization and optimal control problems	172,550
18	PN-II-ID-PCE-2011-3-0241	Kristaly	Alexandru	Universitatea Babes-Bolyai din Cluj-Napoca	Symmetries in elliptic problems: euclidean versus non-euclidean techniques	175,000
19	PN-II-ID-PCE-2011-3-0256	Vacaru	Sergiu	Universitatea "Alexandru Ioan Cuza" din Iasi	Geometric Methods in Gravity and Nonlinear Dynamics	169,050
20	PN-II-ID-PCE-2011-3-0257	Micu	Sorin Daniel	Universitatea din Craiova	Controllability, asymptotic behavior and numerical analysis for evolutionary processes	207,000
21	PN-II-ID-PCE-2011-3-0260	Petcu	Dana	Universitatea de Vest din Timisoara	Automated Management in Cloud and Sky Computing Environments	250,000
22	PN-II-ID-PCE-2011-3-0269	Coltoiu	Mihnea	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Several Complex Variables	250,200
23	PN-II-ID-PCE-2011-3-0288	Aprodu	Marian	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Vector Bundle Techniques in the Geometry of Complex Varieties	192,695
24	PN-II-ID-PCE-2011-3-0323	Dima	Mihai-Octavian	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	High Performance Computing for Nuclear and Particle Physics Applications	226,505

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25	PN-II-ID-PCE-2011-3-0362	David	Liana	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Hermitian and quaternionic structures on manifolds and applications	203,264
26	PN-II-ID-PCE-2011-3-0383	Leustean	Laurentiu	Institutul de matematica "Simion Stoilow" al Academiei Romane	Proof mining in metric analysis, geometric group theory and ergodic theory	214,378
27	PN-II-ID-PCE-2011-3-0438	Sminchisescu	Cristian	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Large Scale Models for Multi-class Three-dimensional Visual Object Recognition	197,840
28	PN-II-ID-PCE-2011-3-0439	Diaconescu	Razvan	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Universal Logic Methods for Computer Science	107,338
29	PN-II-ID-PCE-2011-3-0521	Marin	Liviu	Institutul de Mecanica Solidelor al Academiei Romane	Computational Methods for Inverse Problems Associated with Solids Subject to Mechanical and Thermal Loads	135,000
30	PN-II-ID-PCE-2011-3-0533	Zamfirescu	Tudor	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Generic investigations of Alexandrov spaces with curvature bounded below	121,118
31	PN-II-ID-PCE-2011-3-0557	Luca Tudorache	Rodica	Universitatea Tehnica "Gheorghe Asachi" din Iasi	Boundary value problems for systems of nonlinear differential equations with applications in electronics and mechanics	162,955
32	PN-II-ID-PCE-2011-3-0563	Dumitriu (Apreutesei)	Narcisa	Universitatea Tehnica "Gheorghe Asachi" din Iasi	Models from medicine and biology: mathematical and numerical insights	216,666
33	PN-II-ID-PCE-2011-3-0635	Dascalescu	Sorin	Universitatea din Bucuresti	Hopf algebras in category theory, representation theory and combinatorics	250,000
34	PN-II-ID-PCE-2011-3-0688	Ipate	Florentin	Universitatea din Pitesti	MuVet (Multi-scale modelling Verification and Testing)	228,816
35	PN-II-ID-PCE-2011-3-0843	Rascanu	Aurel	Universitatea "Alexandru Ioan Cuza" din Iasi	Deterministic and stochastic systems with state constraints.	112,500
36	PN-II-ID-PCE-2011-3-0861	Gal	Gheorghe Sorin	Universitatea din Oradea	Approximation by max-product nonlinear operators and by distance methods in the theory of fuzzy numbers, applied to signal and image processing	89,693

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37	PN-II-ID-PCE-2011-3-0899	Kohr	Gabriela	Universitatea Babes-Bolyai din Cluj-Napoca	Geometric and analytic aspects of biholomorphic mappings in C^n and complex Banach spaces	66,727
38	PN-II-ID-PCE-2011-3-0919	Ciobanu	Gabriel	Academia Romana - Filiala Iasi	Membrane Computing and Biologically Inspired Calculi: Computability, Complexity, Causality.	158,950
39	PN-II-ID-PCE-2011-3-0921	Vizman	Cornelia	Universitatea de Vest din Timisoara	Diffeomorphism groups, fluid dynamics and related geometric structures	33,000
40	PN-II-ID-PCE-2011-3-0981	Istrate	Gabriel	Institutul e-Austria	Structure and intractability in combinatorial optimization: an interdisciplinary approach	160,750
41	PN-II-ID-PCE-2011-3-0994	Kohr	Mirela	Universitatea Babes-Bolyai din Cluj-Napoca	Boundary value problems for elliptic systems on non-smooth domains with applications in fluid mechanics	66,727
42	PN-II-ID-PCE-2011-3-1023	Popescu	Dorin-Mihail	Institutul de Matematica "Simion Stoilow" al Academiei Romane	Algorithmic and theoretical methods for studying monomial and binomial ideals with applications in combinatorics, commutative algebra and graph theory	244,250
43	PN-II-ID-PCE-2011-3-1086	Nedevschi	Sergiu	Universitatea Tehnica din Cluj-Napoca	Multi-scale multi-modal perception of dynamic 3D environments based on the fusion of dense stereo, dense optical flow and visual odometry information	214,083