Lista completă de lucrări ale candidatului Viorel Catană

I. TEZA DE DOCTORAT (T)

T1. Viorel Catana, *Operatori Pseudo-Diferentiali si Integrali Fourier in Studiul Existentei si Regularitatii Solutiilor Ecuatiilor cu Derivate Partiale*, 167 pp., 1999, Institutul de Matematica ” Simion Stoilow ” al Academiei Romane.

II. CARTI PUBLICATE (C)

Cc1. Constantin Udriste, Ionel Tevy, Ion Necsuleu, **Viorel Catana**, Marin Gusatu, Livia Bercu, *Matematica, manual clasa a X-a, M1*, proprietatea MEC, Editura Fair Partners, 301 pp., 2004, ISBN.
Candidatul a redactat urmatoarele trei capitole : Capitolul 3 - Elemente de combinatorica -19 pp, Capitolul 7 - Elemente de probabilitati - 22 pp., Capitolul 8 - Elemente de statistica -18 pp.

Cc1. Constantin Udriste, Ionel Tevy, Ion Necsuleu, **Viorel Catana**, Marin Gusatu, Livia Bercu. *Matematika, tankönyv a X. ostály számára, M1* (editie in limba maghiara), proprietatea MEC, Editura Fair Partners, 302 pp., 2004, ISBN 973-8470-38-2.
Candidatul a redactat urmatoarele trei capitole : 3. fejezet - A kombinatorika elemei - 19 pp., 7.fejeszet - Valószínűségszámítás - 22 pp., 8. Fejeszet - A statssztika elemei - 18 pp.

III. ALTE MATERIALE PUBLICATE (I, D)

I1. Constantin Udriste, Ionel Tevy, Ion Necsuleu, **Viorel Catana**, Marian Gusatu, Livia Bercu, Vasilica Tevy, Gheorghe Necsuleu, Claudia Corcodel, Elena Chitu, Gabriela Necsuliu, *Matematica, culegere de probleme pentru clasa a X-a, M1*, Editura Fair Partners, 216 pp., 2004, ISBN 973-8470-36-6.
Candidatul a redactat urmatoarele trei capitole :Capitolul 3 - Elemente de combinatorica - 16 pp., Capitolul 7 – Elemente de probabilitati – 11 pp., Capitolul 8 – Elemente de statistica - 12 pp.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R, V)

Ris1. **V. Catana**, *Lp - boundedness of multilinear pseudo-differential operators on Zn and Tn*, Math. Mod. Nat. Phenom., 9, No. 5, 17 – 38 (2014) WOS: 000342733000002, SRI = 0.893, ISSN 0973 – 5348.

Ris2. V. Catana, *Schatten - von Neumann norm inequalities for two-wavelet localization operators associated with β - Stockwell transform*, Appl. Anal., 91, No. 3, 503-515 (2012), WOS: 000301585900007, SRI= 0.832, ISSN 0003 – 6811.

Ris3. V. Catana, *The heat equation for the generalized Hermite and the generalized Landau operators*, Integral Equations Operator Theory, 66, No. 1, 41-59 (2010), WOS: 000274400700003, SRI = 1293, ISSN 378 – 620X.

Ris4. V. Catana, *Essential spectra and semigroups of perturbations of M – hypoelliptic pseudo-differential operators on Lp(Rn),* Complex Var. Elliptic Equ., 54, No. 8, 731-744 (2009), WOS: 000279110000002, SRI = 0.604, ISSN 1747 – 6933.

Ris5. V. Catana, *M - hypoelliptic pseudo-differential operators on Lp(Rn),* Appl. Anal., 87, No. 6, 657-666 (2008), WOS: 000258004900003, SRI = 0.832, ISSN 0003 – 6811.

Ris6. V. Catana, *Two-wavelet localization operators on homogeneous spaces and their traces,* Integral Equations Operator Theory, 62, No. 3, 351-363, WOS: 000260847900002, SRI = 1.293, ISSN 0378 – 620X.

Ris7. V. Catana, *Le " wave front set " partiel des distributions et applications*, Bull. Math. Soc. Sci. Math. Roumanie, 24, 141-158 (1980), IF = 0.452, BDI: Science Citation Index Expanded / Journal Citation Reports / Science Edition, ISSN 1220 – 3874.

Ris8. V. Catana, *Abelian and Tauberian results for the one – dimensional modified Stockwell transforms*, Appl. Anal. 96, No. 6, 1047 – 1057 (2017), Doi : 10.1080 / 00036811.2016.1176151, SRI = 0.832, ISSN 0003 – 6811.

Ris9. V. Catana, *The generalized twisted bi – Laplacian and its spectral properties*, Complex Var. Elliptic Equ., 62, No. 6, 814 – 824 (2017), Doi : 10.1080 / 17476933. 2016. 1245723, SRI = 0.604, ISSN 1747 – 6933.

Ris10. V. Catana, *Z – operators, related to a finite measure space*, J. Pseudo – Differ. Oper. Appl. 9, 173 – 188 (2018), Doi : https : // doi.org / 10.1007 / s 1868 – 018 – 0238 – z, SRI = 0.566, ISSN 1662 – 9981.

Ris11. V. Catana, *Multilinear Stockwell transforms*, Published online : 21 May 2018, Doi : https : // doi.org / 10.1051 / mmnp / 2018029, SRI = 0.893, ISSN 0973 – 5348, eISSN 1760 – 6101.

Ris12. V. Catana, *S – operators related to a finite measure space*, Appl. Anal., Published online : 10 Jul 2018, Doi : https : // doi.org / 10.1080 / 00036811. 2018. 1495328, SRI = 0.832, ISSN 0003 – 6811, eISSN 1563 – 504X.

Rns1. V. Catana, *The second order abstract Cauchy problem and integrated semi-groups generated by matrix pseudo-differential operators*, Ann. Univ. Craiova Math. Comp. Sci. Ser., 30, 78-87 (2003), Categoria CNCSIS B+, ISSN 1223 – 6934.

Rns2. V. Catana, *The " strongly partial wave front set " of a distribution and almost hypoelliptic pseudo-differential operators, Ann*. Univ. Bucharest Math. Comp. Sci. Ser., 48, No. 2, 105-124 (1999), Categoria CNCSIS B+, ISSN 1224 – 7170.

Vis1. V. Catana, *Polycaloric Distributions and the Generalized Heat Operator*, Pseudo – Differential Operators, Geeralized Functions and Asymptotics, Operator Theory: Advances and Applications, 231, 199 – 217 (2013), Birkhäuser, Springer Basel, ZBMATH, ISBN 978 – 3 – 0348 – 0585 – 8.

Vis2. V. Catana, *The Heat Kernel and Green Function of the Generalized Hermite Operator and the Abstrct Cauchy Problem for the Abstract Hermite Operator*, Pseudo – Differential Operators: Analysis, Applications and Computations, Operator Theory: Advances and Applications, 213, 155 – 171 (2011), Birkhäuser Basel, ISBN 978 – 3 – 0348 – 0048 – 8.

Vis3. V. Catana, *Products of Two – Wavelet Multipliers and Their Traces*, Pseudo-Differential Operators: Complex Analysis and Partial Differential Equations, Operator Theory: Advances and Applications, 205, 195 – 211 (2010), WOS : 000282530900011, Birkhäuser Verlag Basel, ISBN 978 – 3 – 0346 – 0197 – 9.

Vis4. V. Catana, S. Molahajlo, M. W. Wong, *Lp – Boundedness of Multilinear Pseudo – Differential Operators*, Pseudo – Differential Operators: Complex Analysis and Partial Differential Equations, Operator Theory: Advances and Applications, 205, 167 – 180 (2010), Birkhäuser Verlag Basel, ISBN 978 – 3 – 0346 – 0197 – 9.

Vis5. V. Catana, *Schatten-von Neumann Norm Inequalities for Two – Wavelet Localization Operators*, Pseudo-Differential Operators: Partial Differential Equations and Time – Wavelet Localization Frequency Analysis, Fields Institute Communications, 52, 265 – 277 (2007), ISSN 1069 – 5265, AMS and The Fields Institut for Research in Mathematical Sciences, ISBN 978 – 0 – 8218 – 4276 – 8.

VI. CONTRACTE SI RAPOARTE STIINTIFICE (P, F)

Pn1. V. Catana (Director), *Essential Spectra and Semingroups of Perturbations of M-Hypoelliptic Pseudo-Differetial Operators on Lp(Rn),* Grant de cercetare in anul 2008, in competitia " Proiecte de mobilitate a cercetatorilor " – tip MC lansata de CNCSIS in cadrul Programului Resurse Umane (PN – II – RU – MC – 2008-2). Urmare a contractului semnat intre UEFISCSU (Unitate Executiva pentru Finantarea Invatamantuli Superior si a Cercetarii Stiintifice Universitare) si UPB, **acest proiect avand codul 31 a fost finantat cu suma de 5490 lei.**

In acest mod am reusit sa particip in anul 2008 la Second Conference on Pseudo-Differential Operators and Related Topics, desfasurata la Växjö University, Växjö, Suedia.

Continutul comunicarii s-a concretizat in publicarea a doua articole unul in Appl. Anal., 86, No.6, 657 – 666 (2008), IF = 0.684, iar celalat in Complex Var. Elliptic Equ., 54, No. 8 (2009), IF = 0.650.

VII. COMUNICARI STIINTIFICE NEPUBLICATE (E)

E1. *Essential spectra and semigroups of perturbations of generalized SG - hypoelliptic pseudo-differential operators on Lp(Rn),* Joint International Meeting of the AMS and the Romanian Mathematical Society, June 27-30, 2013, Alba Iulia, Romania;

E2. *Sobolev estimates and spectra for the generalized SG – hypoelliptic pseudo-differential operators on Lp(Rn),* 9th ISAAC Congress, August 5 – 9, 2013, Krakow, Poland;

E3. *Perturbations of SG - hypoelliptic pseudo-differential operators on Lp(Rn)*, 21st Conference on Applied and Industrial Mathematics (CAIM), September 19th – 22th, 2013, Bucharest, Romania;

E4. *Functions of generalized Fourier multipliers,* Conference MLTFA 18 – " Microlocal and Time – Frequency Analysis, University of Torino, July 2ed – July 6th, 2018, Torino, Italy.

E5. *On a general class of nonlinear equations of infinite order defined by elliptic symbols,* France – Roumanie : XIV – ème colloque franco – roumain de mathématiques, L' Université de Bordeaux, du 27 au 31 août 2018, Bordeaux, France.