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RECTORATUL

## Universitatea Babeş-Bolyai Competiția Excelenței 2010

### Dosar individual

**Notă: Toate datele se referă la perioada 2005-2009**

Nume, prenume, grad did.	SĂLĂGEAN GRIGORE STEFAN, PROFESOR DR.
Facultatea, Catedra	Facultatea de Matematică și Informatică, Catedra de Algebră, Analiză și Geometrie
Domeniul științific	Analiză complexă
Adresa paginii web personale	<a href="http://math.ubbcluj.ro/~salagean">http://math.ubbcluj.ro/~salagean</a>
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### Criteria I – Output

**1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)**

**2. Articole științifice publicate în ISI proceedings**

**3. Articole științifice indexate în BDI (din lista CNCSIS)**

1. V. C. Holhos , G. S. Salagean, *Integral operators defined on some classes of analytic functions with negative coefficients*, Carpathian J. of Math. 21 no. 1-2 (2005), 69-75. MR: 2192195
2. G. S. Salagean, *On some classes of analytic functions with negative coefficients*, Libertas Mathematica 25 (2005), 83-87. MR 2154313
3. G. S. Salagean, *Integral properties of certain classes of analytic functions with negative coefficients*, Int. J. Math. Math. Sci.1 (2005) 125-131 MR 2146021
4. H.E.Darwish, M. K. Aouf, G. S. Salagean, *A new criterion for meromorphically convex functions of order alpha*, Gen. Math. 13 (2005), no. 3, 71-80. MR 2233661
5. H. Özlem Güney, G. S. Salagean, *Further Properties of  $\beta$ -Pascu Convex Functions of Order  $\alpha$* , Int. J. Math. Math. Sci. 2007, Art. ID 34017, 7 pages, doi:10.1155/2007/34017
6. M. K. Aouf, G. S. Sălăgean, *Generalization of certain subclasses of convex functions and corresponding subclass of starlike functions with negative coefficients*, Mathematica (Cluj), 50 (73), no. 2, 2008, 119-138
7. D. Breaz, H. Özlem Güney, G. S. Sălăgean, *A new general integral operator*, Tamsui Oxford Journal of Mathematical Sciences , 25 (2009) 4, 407-414

**4. Alte articole științifice/capitole publicate în reviste/volume cu referenți (peer-reviewed)**

8. G. S. Sălăgean, *Convolution properties of some classes of analytic functions with negative coefficients*, Proc. Int. Symposium New. Develop. Geometric Function Th. and its Appl. GFTA, Univ. Kebangsaan Malaysia, 10-13 Nov. 2008, ISBN: 978-967-5048-32-6, pag. 12-16

**5. Cărți științifice publicate în edituri internaționale**

**6. Cărți științifice publicate în edituri naționale acreditate**

1. P. T. Mocanu, T. Bulboacă and **G. S. Sălăgean**, Teoria Geometrică a Funcțiilor Univalente, Ed. a II-a, Casa Cărții de Știință Cluj-Napoca, 2006, 460+9 pag., ISBN 973-686-959-8

**7. Editor de volume publicate în edituri naționale și internaționale**

**8. Brevete internaționale**

**9. Brevete naționale**

**10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia**

**11. Realizări artistice naționale și internaționale (Domeniul Arte)**  
(Expoziții, spectacole, concerte, publicații, filme, înregistrări)

## **Criteriul II – Prestigiu profesional**

### **1. Citări ale articolelor ISI listate la Criteriul I**

### **2. Alte citări ale lucrărilor listate mai sus**

S. Bulut, A new general integral operator defined by Al-Oboudi differential operator, **Journal of Inequalities and Applications** 2009, art. no. 158408 [citeaza: D. Breaz, H. Özlem Güney, G. S. Sălăgean, A new general integral operator, Tamsui Oxford Journal of Mathematical Sciences 25 (2009) 4, 407-414.]

### **3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005**

1. Muhammet Kamali, Murat Oezdemir, A new subclass of p-valently starlike functions with negative coefficients, **Inequality Theory and Applications**, Vol 5 (2007), 107-119 , 8th International Conference on Nonlinear Functional Analysis and Applications, AUG 09-13, 2004 Gyeongsang Natl Univ Chinju SOUTH KOREA [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
2. M. Acu, Clase speciale de funcții univalente. Conservarea proprietatilor lor geomatrice, (teza doctorat), Babes-Bolyai Univ. 2005 2 [ citeaza: **1.** G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>, **2.** P. T. Mocanu, T. Bulboaca, G.S. Salagean, Teoria Geometrica a Functiilor Univalente, Casa Cartii de Stiinta, Cluj-Napoca, 1999, **3.** G. S. Salagean, Geometria Planului Complex, ProMedia Plus, Cluj-Napoca, 1996], **4.** M. K. Aouf, H. E. Darwish, G. S. Salagean, On a generalization of starlike functions with negative coefficients, Mathematica (Cluj), 43 (66), nr. 1 (2001), 3-11 (2003), MR 2015368, **5.** G. S. Salagean, Sufficient conditions for starlikeness and convexity of analytic functions with negative coefficients, Mathematica (Cluj) 47 (70) (2005), 2, 209-216 MR 216531]
3. M. Acu, “Operatorul integral Libera-Pascu si proprietatile acestuia cu privire la functiile uniform stelate, convexe, aproape convexe si  $\alpha$ -uniform convexe”, Ed. Universitatii “Lucian Blaga” Sibiu, 2005, ISBN 973-739-059-8 [citeaza: **1.** P. T. Mocanu, T. Bulboaca, G.S. Salagean, Teoria Geometrica a Functiilor Univalente, Casa Cartii de Stiinta, Cluj-Napoca, 1999, **2.** G. S. Salagean, Geometria Planului Complex, ProMedia Plus, Cluj-Napoca, 1996]
4. M. K. Aouf, F. M. Al-Oboudi, M. M. Haidan, On a certain class of analytic functions with complex order defined by Salagean operator, Mathematica (Cluj) 47 (70) (2005) 1, 3-18 [citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
5. M. K. Aouf, F. M. Al-Oboudi, M. M. Haidan, An application of certain integral operator, Mathematica (Cluj) 47 (70) (2005) 2, 121-124. [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
6. H. M. Srivastava, A. Y. Lashin, Some applications of the Briot-Bouquet differential subordination, Journal of Inequalities in Pure and Applied Mathematics, 6 (2005), no. 2, 7p [citeaza: S. Owa, G. S. Salagean, On an open problem of S. Owa, J. of Math. Anal. Appl., 218 (1998), 453-457. MR 98m:30018]
7. G. Kohr, P. T. Mocanu, Capitole speciale de analiză complexă, Presa Universitară Clujeană, 2005 [citeaza: G. S. Salagean, Geometria Planului Complex, ProMedia Plus, Cluj-Napoca, 1996]
8. M. Acu, S. Owa, Some subclasses of  $\alpha$ -uniformly close to convex functions with negative coefficients. (English. English summary) , Acta Univ. Apulensis Math. Inform. No. 9 (2005), 39-47. [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>] [GeomPIComp]

9. A. Baricz, A subclass of starlike functions, *Mathematica (Cluj)*, 47 (70), 1 (2005), 19-25 [citeaza: P. T. Mocanu, T. Bulboaca, G.S. Salagean, *Teoria Geometrica a Functiilor Univalente*, Casa Cartii de Stiinta, Cluj-Napoca, 1999]
10. M. Acu, S. Owa, On a subclass of  $n$ -starlike functions, *Int. J. Math. Math. Sci.* 17(2005), 2841-2846 [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
11. H. Orhan, M. Kamali, Neighborhoods of a class of analytic functions with negative coefficients, *Acta Math. Acad. Paedagogicae Nyiregyhaziensis* 21 (2005) no. 1, 55-61 [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
12. M. Darus, Certain subclass of analytic functions II, *Acta Math. Acad. Paedagogicae Nyiregyhaziensis* 21 (2005) no. 2, 127-134 [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
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14. S. Yalcin, (A) New class of *Salagean*-type harmonic univalent functions, **Applied Math. Letters** 18 (2005), no. 2, 191-198 [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
15. Gh. Oros, Georgia Oros, A new class of holomorphic functions defined by *Salagean* differential operator, *Libertas Math.* 25 (2005), 93-96. [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
16. V. C. Holhos, Conditions for starlikeness and convexity, *Mathematica (Cluj)* 47 (70), 1, (2005), 73-76 [citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>].
17. T. Bulboacă, *Differential Subordinations and Superordinations*. Recent Results, Casa Cărții de Știință, Cluj-Napoca, 2005 ([1. G. S. Salagean, Properties of starlikeness and convexity preserved by some integral operators, Lectures Notes in Math. 743, Springer Verlag, 1979, 367-372, MR 81e:30024 2.P. T. Mocanu and G. S. Salagean, Integral operators and meromorphic starlike functions, *Mathematica (Cluj)* 32 (55), nr. 2 (1990), 147-152, MR 93e:30030, 3. G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>, 4. G. S. Salagean, Meromorphic starlike univalent functions, Itin. Sem., Babes-Bolyai Univ., Res. Sem. 7/1986, 261-265, 5. G. S. Salagean, Integral operators and meromorphic functions, *Rev. Roum. Math. Pures Appl.* 33 (1988), 1-2, 135-140, MR 89h:30024]
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23. Shanmugam, T.N., Sivasubramanian, S., Kamali, M., On the unified class of k-uniformly convex functions associated with Salagean derivative, J. Approx. Theory Appl., 1, (2005) pp. 141-145. [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
24. G. Murugusundaramoorthy, Thomas Rosy, B. A. Stephen, On certain classes of harmonic univalent functions based on *Salagean* operator, Aust. J. Math. Anal. Appl. **2** (2005), no. 1, Art. 3, 8 pp. (electronic). [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
25. V. Ravichandran, M. Darus; M. Hussain Khan; K. G. Subramanian, Differential subordination associated with linear operators defined for multivalent functions. Acta Math. Vietnam. **30** (2005), no. 2, 113—121 [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
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28. Sibel Yalçın, A new class of *Salagean*-type harmonic univalent functions, Appl. Math. Lett. **18** (2005), No. 2, 191-198 [ citeaza: G. S. Salagean, Subclasses of univalent functions, Proc. 1981 Bucharest, Lect. Notes in Math. 1013, Springer Verlag, 1983, 362-372, MR 85j:30023. <http://www.springerlink.com/content/w753816720375137>]
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#### 4. Distincții, premii și alte recunoașteri naționale și internaționale

#### 5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute) : 15

- Îndrumare lucrări de disertație (număr lucrări susținute) : 5
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute) :

Doctoranzi înmatriculați în perioada 2005-2009 (Nume, prenume, anul înmatriculării):

1. Oros Georgia Irina (2004) (A susținut teza în 2006)
2. Anca Dan (2004) (continua în Germania)
3. Sendruțiu (Ilea) Gabriela Roxana (2004) (Redactează teza)
4. Bălăeți Camelia Mădălina (2005) (Teza redactată)
5. Tăut Adela Olimpia (2005) (Redactează teza)
6. Totoi Elisabeta Alina (2007)
7. Ureche (Catîrlă) Luminița Ioana (2007) (Teza redactată)

Doctoranzi care au obținut titlul de doctor în perioada 2005-2009 (Nume, prenume, titlul tezei, anul susținerii):

1. Oros Georgia Irina , Studiul unor clase de funcții univalente (2006)

- Post-doctoranzi (lista nominală)

#### **6. Studenți internaționali atrași (activități de coordonare științifică și didactică)**

- Îndrumare lucrări de licență (număr lucrări susținute)
  - Îndrumare lucrări de disertație (număr lucrări susținute)
  - Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
  - Post-doctoranzi (lista nominală) :
1. Dr. Anoke L. Pathak, Brahmanand PG College, The Mall, Kanpur (India) – și-a manifestat dorința de a veni un semestru la UBB dar nu obținut bursa solicitată de la Guvernul Indiei
  2. Dr. Abdul Rahman S. Juma, Alanbar University, Ramadi, Iraq, și-a manifestat dorința de a veni, suntem deocamdata în tratative

#### **7. Membru in comitetul de redacție la reviste ISI**

#### **8. Membru in comitetul de redacție la reviste BDI**

- *Studia Universitatis Babes-Bolyai, serie Mathematica*
- *Acta Universitatis Apulensis*
- *Journal of Applied Computer Science & Mathematics*

#### **9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea)**

#### **10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)**

*PROBLEME MODERNE IN TEORIA FUNCTIILOR UNIVALENTE DE UNA SI MAI MULTE VARIABLE COMPLEXE. APLICATII*, 86825 ROL, CNCSIS, FUNCTII DE VARIABLE COMPLEXE SI TEORIA POTENTIALULUI, director G. Kohr, membru echipa

#### **11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)**

#### **12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)**

*METODE GEOMETRICE IN TEORIA FUNCTIILOR REALE SI COMPLEXE. APLICATII*, CNCSIS 348/2005, nr. 75, ... 25,300.00 lei, Director de proiect: G.Salagean

*METODE GEOMETRICE ÎN TEORIA FUNCȚIILOR REALE ȘI COMPLEXE. APLICAȚII*, CNCSIS 348/2006, nr. 575..... 20,700.00 lei, Director de proiect: Grigore Salagean



UTILIZAREA METODELOR GEOMETRICE SI ANALITICE IN STUDIUL FUNCTIILOR REALE SI COMPLEXE DE UNA SAU MAI MULTE VARIABLE. APLICATII, CNCSIS 1463/2007 nr. 10, ..... 77,625.00 lei, Director de proiect: G. Salagean

UTILIZAREA METODELOR GEOMETRICE SI ANALITICE IN STUDIUL FUNCTIILOR REALE SI COMPLEXE DE UNA SAU MAI MULTE VARIABLE. APLICATII, CNCSIS 1463/2008 nr. 63, ..... 70,200.00 lei, Director de proiect: G. Salagean

ANALIZĂ COMPLEXĂ ȘI DOMENII CONEXE FAZA I, INSTITUTUL DE MATEMATICA "SIMION STOILU" AL ACADEMIEI ROMANE BUCUREȘTI, 2-CEx-06-11-10/25.07. 2006, Faza I, ..... 36,000.00 lei, Responsabil de proiect: G. Salagean

ANALIZĂ COMPLEXĂ ȘI DOMENII CONEXE FAZA I, INSTITUTUL DE MATEMATICA "SIMION STOILU" AL ACADEMIEI ROMANE BUCUREȘTI, 2-CEx-06-11-10/25.07. 2006, Faza II, ..... 155,979.00 lei, Responsabil de proiect: G. Salagean

ANALIZĂ COMPLEXĂ ȘI DOMENII CONEXE FAZA I, INSTITUTUL DE MATEMATICA "SIMION STOILU" AL ACADEMIEI ROMANE BUCUREȘTI, 2-CEx-06-11-10/25.07. 2006, Faza III, ..... 162,902.43 lei, Responsabil de proiect: G. Salagean

### **13. Profesor invitat la universitati de prestigiu, cu titlu oficial:**

**Nihon University Tokyo, 2008**

**Universite Pieree et Marie Curie – Paris VI, 2006**

### **14. Membru în comisii profesionale relevante, cu titlu oficial**

**Expert CNCSIS**

### **15. Conferințe invitate internaționale**

**1. INTERNATIONAL SYMPOSIUM ON ANALYSIS AND THEORY OF FUNCTIONS, ISTANBUL KULTUR UNIVERSITY, [HTTP://WWW.IKU.EDU.TR/TR/SEMP\\_ICERIK.PHP?P=178&R=0](http://www.iku.edu.tr/tr/semper_icerik.php?p=178&r=0), [HTTP://WWW.IKU.EDU.TR/TR/SEMP\\_ICERIK.PHP?KATEGORINO=163&P=178&R=3](http://www.iku.edu.tr/tr/semper_icerik.php?kategorino=163&p=178&r=3), titlul: *HARMONIC FUNCTIONS AND CONVOLUTIONS*, anul 2009**

**2. INTERNATIONAL SYMPOSIUM ON NEW DEVELOPMENT OF GEOMETRIC FUNCTION THEORY AND ITS APPLICATIONS, UNIVERSITI KEBANGSAAN MALAYSIA, [HTTP://PKUKMWEB.UKM.MY/~PPSMFST/GFTA2008/INDEX.HTM#SPEAKERS](http://pkukmweb.ukm.my/~ppsmfst/gfta2008/index.htm#speakers), [HTTP://PKUKMWEB.UKM.MY/~PPSMFST/GFTA2008/TENTATIVE\\_GFTA2008.PDF](http://pkukmweb.ukm.my/~ppsmfst/gfta2008/tentative_gfta2008.pdf), titlul: *CONVOLUTION PROPERTIES OF SOME CLASSES OF ANALYTIC FUNCTIONS WITH NEGATIVE COEFFICIENTS*, anul 2008**

**3. INTERNATIONAL SYMPOSIUM ON COMPLEX ANALYSIS, "LUCIAN BLAGA" UNIVERSITY SIBIU, titlul: *GENERALIZATION OF CERTAIN SUBCLASS OF CONVEX FUNCTIONS AND A CORRESPONDING SUBCLASS OF STARLIKE FUNCTIONS WITH NEGATIVE COEFFICIENTS*, anul 2007**

**4. 8-IEME COLLOQUE FRANCO-ROUMAIN DE MATHEMATIQUES APPLIQUEES, CHAMBERY 28 OUT- 1-ER SEPT 2006, [WWW.LAMA.UNIV-SAVOIE.FR/8CFR](http://www.lama.univ-savoie.fr/8cfr), titlul: *DIFFERENTIAL SUBORDINATIONS*, anul 2006.**

### **16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale**

2009: Membru al Scientific Committee of *International Symposium – Geometric Function Theory and Application - GFTA*, 29 August – 1 September, Sibiu, Romania (<http://depmath.ulbsibiu.ro/event/gfta2009/organizingcommitte.pdf>)

2009: Membru al Organizing Committee of *Conference on Complex Analysis and Related Topics, The 12th Romanian-Finnish Seminar*, Turku, Finland, August 17-21

2008: Membru al *Organizing Committee of International Conference on Complex Analysis and Related Topics* and *The 11th Romanian-Finnish Seminar*, August 14-19, Alba Iulia, Romania

2006: Presedinte al *Organizing Committee of International Conference on Complex Analysis In Honor of Professor petru t. Mocanu*, 20-22 of July, 2006, Cluj-Napoca

2005: Membru al *Organizing Committee of International Conference on Complex Analysis and Related Topics* and *The 10th Romanian-Finnish Seminar*, August 14-19, Cluj-Napoca, Romania ([http://www.imar.ro/~eurrommat/rofin\\_05\\_first/rofinsem05\\_secondannouncement/2-nd-ann.html](http://www.imar.ro/~eurrommat/rofin_05_first/rofinsem05_secondannouncement/2-nd-ann.html))

### **III. Realizare remarcabilă**

(Descrieți într-o manieră cât mai accesibilă (în maximum 1 pagină) cea mai importantă realizare științifică/tehnică/artistică din ultimii 5 ani și impactul acesteia.)

Menționez rezultatele referitoare la acțiunea unor operatori integrali sau de convoluție în anumite clase de funcții univalente. Aceste rezultate sunt “exacte”, în sensul că sunt cele mai bune (nu mai pot fi îmbunătățite). Ele au stârnit interesul multor matematicieni din diverse țări, dovada fiind invitarea (ca “invited speaker”, “keynote speaker” sau în comitetul științific) la mai multe conferințe internaționale importante.

Dar poate că mai important, deși cu implicații științifice indirecte, este că în această perioadă granturile de cercetare la care am fost director au adus universității noastre 548 706 lei.

Data: 15 martie 2010

Semnătura:

**Certific validitatea datelor prezentate**

Sef de catedră,