

# 20 years of activity of the Mathematics Doctoral School at North University (Center) of Baia Mare

Vasile Berinde, Mihaela Chira, Dan Miclăuș and Adina Pop

Department of Mathematics and Computer Science  
North University Center at Baia Mare  
Technical University of Cluj-Napoca

10th International Minisymposium on Nonlinear Analysis - Fixed Point Theory & Applications.

Dedicated to the 20th anniversary of the Doctoral School of Mathematics

June 19-21, 2025, Baia Mare, Romania

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- We shall start by an anniversary moment: the 20th anniversary of the Doctoral School of Mathematics

# First step: transferring 2 PhD supervisors to Baia Mare

In order to organize Doctoral studies: 3 PhD supervisors were (and still are) needed

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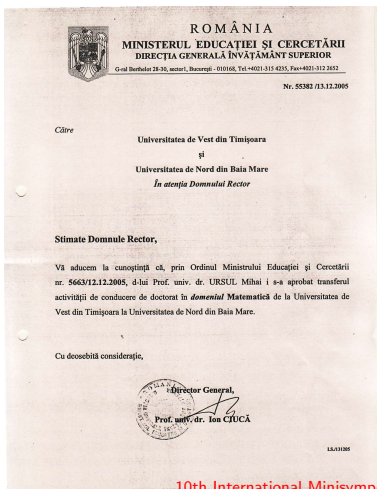
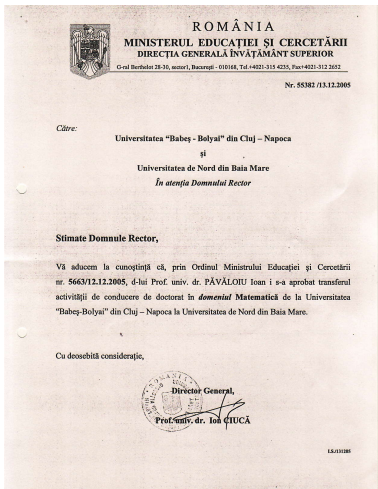
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DIRECȚIA GENERALĂ ÎNVĂȚĂMÂNT SUPERIOR  
Căminul Băneșilor 38, RO-70738 Buzănești, Tel. +4021-312 4223, Fax +4021-312 2552



Nr. 55374 / 13.12.2005

Către

INSTITUȚIILE ORGANIZATOARE DE STUDII UNIVERSITARE DE DOCTORAT

În conformitate cu prevederile Legii Învățământului nr. 84/1995 - Art. 73 și ale H.G. 567/2005 privind organizarea și desfășurarea studiilor universitare de doctorat, Ministerul Educației și Cercetării (MEC), Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (C.N.A.T.D.C.U.) și Comisiile de Specialitate ale C.N.A.T.D.C.U. (Comisii) au efectuat activitățile specifice care le revin privind conferirea calității de *Conducător de Doctorat*. În legătură cu acestea, vă comunicăm cele ce urmează.

1. *Comisiile* au analizat majoritatea dosarelor primite și au propus rezoluții pe care le-au înaintat C.N.A.T.D.C.U.  
Din motive înteminate, unele dosare nu au fost discutate de *Comisii*; unele dosare, după o primă analiză, au fost transferate către alte *Comisii* (urmând să fie analizate în sesiunea de lucru următoare).
2. C.N.A.T.D.C.U., în reuniunea de lucru din 25.11.2005, a analizat propunerile *Comisiilor* - reprezentate în cadrul reuniunii - și a adoptat rezoluții pe care le-a înaintat Ministerului Educației și Cercetării.
3. În baza propunerilor C.N.A.T.D.C.U., prin Ordinul Ministerului Educației și Cercetării nr. 5658/12.12.2005 se conferă calitatea de *Conducător de doctorat*, respectiv, prin Ordinul Ministerului Educației și Cercetării nr. 5659/12.12.2005 nu se conferă calitatea de *Conducător de doctorat*, persoanelor - profesori universitari sau cercetători științifici principali gradul I cuprinși în Anexele 1 - alăturate și/sau nu s-a discutat sau s-a amânat conferirea calității de conducător de doctorat persoanelor cuprinse în Anexa 2 - alăturată.



LL/01/05

Anexa 1

## L I S T A

persoanelor - profesori universitari  
sau cercetători științifici principali gradul I, cărora,  
prin Ordinul Ministerului Educației și Cercetării nr. 5658/12.12.2005,  
li s-a conferit calitatea de CONDUCTĂTOR DE DOCTORAT

I.O.D.: Universitatea de Nord din Baia Mare

Domeniul: Matematică

1. BERINDE Vasile

Domeniul: Inginerie mecanică

1. LOBONȚIU Mircea



## Third step: approval of the Doctoral School itself

Approval of the Doctoral School (I.O.D.= Instituție Organizatoare de Doctorat)

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**UNIVERSITATEA DE NORD DIN BAIA MARE**  
**RECITAT**  
Nr. Dr. Victor Babeș nr. 14, Tel. 402371  
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Nr. 55375 / 13.12.2005

Către

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1. Comisiile au analizat majoritatea dosarelor primite și au propus rezoluții pe care le-au înaintat C.N.A.T.D.C.U.
2. Din motive întemeiate, unele dosare nu au fost discutate de Comisii.
3. C.N.A.T.D.C.U., în reuniunea de lucru din 25.11.2005, a analizat propunerile Comisiilor - reprezentate în cadrul reuniunii - și a adoptat rezoluții pe care le-a înaintat Ministerului Educației și Cercetării.
4. În baza propunerilor C.N.A.T.D.C.U., prin Ordinul Ministerului Educației și Cercetării nr. 5660/12.12.2005 - se acordă calitatea de **Instituție Organizatoare de Doctorat**, respectiv, prin Ordinul Ministerului Educației și Cercetării nr. 5661/12.12.2005 - nu se acordă calitatea de **I.O.D.**, în conformitate cu cele cuprinse în Anexele 1 - alăturate și/sau nu s-a discutat sau s-a amânat acordarea calității de **I.O.D.** instituțiilor cuprinse în Anexa 2 - alăturată.

Director General,  
Prof. univ.dr. Ion CIUȚĂ

LS.13130

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Presenter: Dan Miclăuș

# Ion Păvăloiu (2 November 1939 - 1 August 2023)



# Ion Păvăloiu: brief CV

- 1971: Ph.D. in Mathematics, “Tiberiu Popoviciu” Institute of Numerical Analysis, Cluj-Napoca  
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- Books and textbooks: 5

# Ion Păvăloiu: brief CV

- 1971: Ph.D. in Mathematics, "Tiberiu Popoviciu" Institute of Numerical Analysis, Cluj-Napoca  
Thesis: [Contributions to the study of fast converging iterative methods used to solve operational equations](#)
- 1962-2013, 2017-2019: Researcher at "Tiberiu Popoviciu" Institute of Numerical Analysis, Cluj-Napoca
- 1990-2008: Head of "Tiberiu Popoviciu" Institute of Numerical Analysis, Cluj-Napoca
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I. Păvăloiu, N. Pop, *Interpolation and Applications*, Lambert Academic Publishing, 2017, 280 pp., ISBN 978-3-330-08939-6

# Ion Păvăloiu: awards



## Ion Păvăloiu

[MathSciNet](#)

Ph.D. [Academia Romana](#) 1971



Dissertation: *Contributions to the study of rapid convergent iterative methods, applied to solving operatorial equations*

Advisor 1: [Tiberiu \(Tibère\) Popoviciu](#)

Students:

Click [here](#) to see the students ordered by family name.

| Name                               | School                        | Year | Descendants |
|------------------------------------|-------------------------------|------|-------------|
| <a href="#">Pop, Ovidiu</a>        | Babeş-Bolyai University       | 2006 |             |
| <a href="#">Fărcaş, Mircea</a>     | North University of Baia Mare | 2008 |             |
| <a href="#">Heljiu, Marius</a>     | North University of Baia Mare | 2011 |             |
| <a href="#">Pomian, Raluca</a>     | North University of Baia Mare | 2011 |             |
| <a href="#">Pop, Nicolae</a>       | North University of Baia Mare | 2011 |             |
| <a href="#">Ardelean, Gheorghe</a> | North University of Baia Mare | 2012 |             |
| <a href="#">Miclăuş, Dan</a>       | North University of Baia Mare | 2012 |             |
| <a href="#">Braica, Petru</a>      | North University of Baia Mare | 2013 |             |

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Presenter: Adina Pop



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Ursul, M. *Topological rings satisfying compactness conditions. Mathematics and its Applications*, 549. Kluwer Academic Publishers, Dordrecht, 2002.

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- ② Adina Loredana Pop (Melniciuc) (2014): [Contributions to the theory of  \$\(n,m\)\$ -semirings and  \$n\$ -semigroups](#)

Presenter: Mihaela Chira

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Berinde, V. *Iterative approximation of fixed points*. Second edition.

Lecture Notes in Mathematics, 1912. Springer, Berlin, 2007.

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- **Monica Luran** (2012): The technique of nonexpansive mappings for solving integral equations with modified argument
- Florin Bojor (2012): Fixed point theorems in metric spaces endowed with a graph
- Ioana Timiș (Dărbăban) (2013): Stability and weak stability of fixed point iteration procedures
- Oana Bumbariu (2013): Acceleration techniques for fixed point iterative methods
- **Andrei Bozântan** (2013) New implementation of fixed point algorithms with applications to nonsmooth optimisation
- **Adina Loredana Pop (Melniciuc)** (2014): Contributions to the theory of  $(n,m)$ -semirings and  $n$ -semigroups (*de jure* Supervisor)
- Melania Dobrican (Cozma) (2018): Fixed point theorems in metric spaces endowed with a binary relation

# PhD Students of Vasile Berinde (NU Baia Mare):

## Vasile I. Berinde

[MathSciNet](#)

Ph.D. [Babeş-Bolyai University](#) 1993



Dissertation: *Generalized Contractions and Applications*

Mathematics Subject Classification: 47—Operator theory

Advisor: [Ioan A. Rus](#)

Students:

Click [here](#) to see the students ordered by family name.

| Name                                            | School                        | Year | Descendants |
|-------------------------------------------------|-------------------------------|------|-------------|
| <a href="#">Petric, Mihaela Ancuta</a>          | North University of Baia Mare | 2011 |             |
| <a href="#">Bojor, Florin</a>                   | North University of Baia Mare | 2012 |             |
| <a href="#">Borcut, Marin</a>                   | North University of Baia Mare | 2012 |             |
| <a href="#">Lauran, Monica</a>                  | North University of Baia Mare | 2012 |             |
| <a href="#">Bumbariu, Oana</a>                  | North University of Baia Mare | 2013 |             |
| <a href="#">Daraban, Ioana</a>                  | North University of Baia Mare | 2013 |             |
| <a href="#">Bozantan, Andrei</a>                | North University of Baia Mare | 2014 |             |
| <a href="#">Pop (Melniciuc), Adina Loredana</a> | North University of Baia Mare | 2014 |             |
| <a href="#">Dobrican (Cozma), Melania</a>       | North University of Baia Mare | 2018 |             |

Presenter: Vasile Berinde

# The Doctoral School of Mathematics in 2025: 9 PhD Supervisors

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**Current PhD Students** (V. Berinde): Mariana Cufoian; Nicu Filip; Paula Homorodan; Adriana Mitre; Liviu Socaciu; Aura Horotan; Ioan Trifoi

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## Prof. Szilard Laszlo

- ① Cristian Daniel Alecsa (2024): [Optimization, a dynamical system approach](#)

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# Mathematics Doctoral School International Collaboration

Honor of inviting

---

From: Narin petrot (narinp@nu.ac.th)

To: vberinde@ubm.ro; vasile.berinde@gmail.com; vasile\_berinde@yahoo.com

Date: Sunday, May 5, 2013 at 07:10 AM GMT+3

---

Dear Professor Vasile Berinde,

I am Dr. Narin Petrot, a lecture at Naresuan University, Phitsanulok, Thailand.

I and my colleagues in Thailand have an interested in doing research in the topic of fixed point theory and its applications. And, of course, we have studied your works. In this e-mail,

on behalf of Naresuan University, I am very pleased to have the honor of inviting you to our university for a guest lecture about 5-7 days .

We would like you to speak on "Some recent advance in Iterative Approximation of Fixed Points and its applications"

We have arranged the lectures and discussion from November 2013- February, 2014. We are expecting an audience of approximately 40 graduate students including the staff of the Department of Mathematics

# A series of four lectures (I): 21-23 November 2013

A workshop on

“Some recent advance in Iterative Approximation of Fixed Points and its applications”

By

Professor Vasile Berinde (North University of Baia Mare)

November 21 – 26, 2013

Part (I): Lecture at Naresuan University, Phitsanulok.

Nov. 21, 2013

14:00 – 15:30 Lecture: Some recent advance in Iterative Approximation of Fixed Points and its applications (I)

Nov. 22, 2013

10:00 – 11:30 Lecture: Some recent advance in Iterative Approximation of Fixed Points and its applications (II)

13:00 – 14:30 Lecture: Some recent advance in Iterative Approximation of Fixed Points and its applications (III)

Nov. 23, 2013

9:00 – 15:00 Discussion

# A series of four lectures (II): 25-26 November 2013

## Part (II): Lecture Chiang Mai University, Chiang Mai, Thailand.

Nov. 25, 2013

10:30 – 12:00 Lecture: Some recent advance in Iterative Approximation of  
Fixed Points and its applications (IV)

13:00 – 15:00 Discussion

Nov. 26, 2013

9:00 – 15:00 Discussion

# Naresuan University (23 November 2013):



1-7 June 2014: 5 participants from Thailand

## 5th Minisymposium on Fixed Point Theory and Applications Baia Mare, Romania



21-25 January 2015: V. Berinde (invited speaker)

NACA-2015, Chiang Rai, Thailand



**Ninth International Conference on Nonlinear Analysis and Convex Analysis (NACA2015)**

January 21 - 25, 2015

Organized by the Department of Mathematics

Faculty of Science, Narasuan University, Thailand

10th International Minisymposium on Nonli

## Other important joint events:

- ① 26-27 January 2015: invited lectures, King Mongkut's University of Technology Thonburi, Bangkok (Prof. Poom Kumam)

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## 23 May 2019: meeting at Rector's office



# Academic research visit of PhD Students to Baia Mare:

- Warut SAKSIRIKUM (Naresuan University, 2016): Dr. Narin Petrot

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- Pachara JAILOKA (Chiang Mai Univ., 2019): Prof. Dr. S. Suantai

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Evaluator of ARACIS**  
**Professor  
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Technical University of  
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**Member of the PROMES  
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This was a really great achievement for a small Department / University !

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- 3 Universitatea din Craiova (poz. 379)
- 4 Universitatea Politehnica din Bucureşti (poz. 441)
- 5 **Universitatea Tehnică din Cluj-Napoca (poz. 455)**
- 6 Universitatea "Transilvania" din Braşov (poz. 459)

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203)
  - ② Universitatea din Bucureşti (poz. 267)
  - ③ Universitatea din Craiova (poz. 379)
  - ④ Universitatea Politehnica din Bucureşti (poz. 441)
  - ⑤ **Universitatea Tehnică din Cluj-Napoca (poz. 455)**
  - ⑥ Universitatea "Transilvania" din Braşov (poz. 459)
- ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                          |
|-----------------------------------------------------------|----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78) |
| ② Universitatea din Bucureşti (poz. 267)                  | ② Universitatea Tehnică din Cluj-Napoca (poz. 179)       |
| ③ Universitatea din Craiova (poz. 379)                    |                                                          |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      |                                                          |
| ⑤ Universitatea Tehnică din Cluj-Napoca (poz. 455)        |                                                          |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      |                                                          |

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)  |
| ② Universitatea din Bucureşti (poz. 267)                  | ② <b>Universitatea Tehnică din Cluj-Napoca (poz. 179)</b> |
| ③ Universitatea din Craiova (poz. 379)                    | ③ Universitatea din Bucureşti (poz. 188)                  |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      |                                                           |
| ⑤ <b>Universitatea Tehnică din Cluj-Napoca (poz. 455)</b> |                                                           |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      |                                                           |

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)  |
| ② Universitatea din Bucureşti (poz. 267)                  | ② <b>Universitatea Tehnică din Cluj-Napoca (poz. 179)</b> |
| ③ Universitatea din Craiova (poz. 379)                    | ③ Universitatea din Bucureşti (poz. 188)                  |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      | ④ Universitatea din Craiova (poz. 368)                    |
| ⑤ <b>Universitatea Tehnică din Cluj-Napoca (poz. 455)</b> |                                                           |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      |                                                           |

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)  |
| ② Universitatea din Bucureşti (poz. 267)                  | ② <b>Universitatea Tehnică din Cluj-Napoca (poz. 179)</b> |
| ③ Universitatea din Craiova (poz. 379)                    | ③ Universitatea din Bucureşti (poz. 188)                  |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      | ④ Universitatea din Craiova (poz. 368)                    |
| ⑤ <b>Universitatea Tehnică din Cluj-Napoca (poz. 455)</b> | ⑤ Universitatea Politehnica din Bucureşti (poz. 460)      |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      |                                                           |

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)  |
| ② Universitatea din Bucureşti (poz. 267)                  | ② <b>Universitatea Tehnică din Cluj-Napoca (poz. 179)</b> |
| ③ Universitatea din Craiova (poz. 379)                    | ③ Universitatea din Bucureşti (poz. 188)                  |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      | ④ Universitatea din Craiova (poz. 368)                    |
| ⑤ <b>Universitatea Tehnică din Cluj-Napoca (poz. 455)</b> | ⑤ Universitatea Politehnica din Bucureşti (poz. 460)      |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      | ⑥ Universitatea "Transilvania" din Braşov (poz. 479)      |

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)  |
| ② Universitatea din Bucureşti (poz. 267)                  | ② <b>Universitatea Tehnică din Cluj-Napoca (poz. 179)</b> |
| ③ Universitatea din Craiova (poz. 379)                    | ③ Universitatea din Bucureşti (poz. 188)                  |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      | ④ Universitatea din Craiova (poz. 368)                    |
| ⑤ <b>Universitatea Tehnică din Cluj-Napoca (poz. 455)</b> | ⑤ Universitatea Politehnica din Bucureşti (poz. 460)      |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      | ⑥ Universitatea "Transilvania" din Braşov (poz. 479)      |
|                                                           | ⑦ Universitatea din Oradea (poz. 491)                     |

# Shanghai 2023 *versus* Shanghai 2024 (Mathematics):

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 203) | ① Universitatea "Babeş-Bolyai" din Cluj-Napoca (poz. 78)  |
| ② Universitatea din Bucureşti (poz. 267)                  | ② <b>Universitatea Tehnică din Cluj-Napoca (poz. 179)</b> |
| ③ Universitatea din Craiova (poz. 379)                    | ③ Universitatea din Bucureşti (poz. 188)                  |
| ④ Universitatea Politehnica din Bucureşti (poz. 441)      | ④ Universitatea din Craiova (poz. 368)                    |
| ⑤ <b>Universitatea Tehnică din Cluj-Napoca (poz. 455)</b> | ⑤ Universitatea Politehnica din Bucureşti (poz. 460)      |
| ⑥ Universitatea "Transilvania" din Braşov (poz. 459)      | ⑥ Universitatea "Transilvania" din Braşov (poz. 479)      |
|                                                           | ⑦ Universitatea din Oradea (poz. 491)                     |

# Shanghai 2024: new criteria were used



Thank you / Mulțumesc !