

Concurs pentru ocuparea postului de profesor universitar, poz. 15  
Departamentul de Finanțe  
Disciplinele: Finanțe întreprinderii, Piețe financiare și gestiunea portofoliilor, Managementul portofoliului: asigurări, piață de capital, pensii private (engleză)  
Domeniul: Finanțe  
post publicat în Monitorul Oficial al României nr. 1242 din 03.12.2021

## LISTA DE LUCRĂRI

Candidat: BADEA I. Leonardo - **Dr.**/din 2006, profesor universitar /din 2013

**1 Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări din prezenta listă de lucrări:**

**1. Leonardo BADEA**, Andreea-Daniela MORARU, Constantin ILIE, Cristina DUHNEA, Iulian PANAIT (2021). Customer Satisfaction with Banking Services. Simulating the Influence of Customer Satisfaction Determinants Using Artificial Neural Network Algorithms. *Economic Computation and Economic Cybernetics Studies and Research*, 55(4), pp.101-115, ISSN (print): 0424–267X. Factor de impact 2020-0,885.

[http://www.ecocyb.ase.ro/nr2021\\_4/7.%20Badea%20Leonardo.%20Iulian%20Panait%20pdf.pdf](http://www.ecocyb.ase.ro/nr2021_4/7.%20Badea%20Leonardo.%20Iulian%20Panait%20pdf.pdf)

**2. Leonardo Badea**, Daniel Ștefan Armeanu, Dan Constantin Nitescu, Valentin Murgu, Iulian Panait, Boris Kuzman (2020). A Study of the Relative Stock Market Performance of Companies Recognized for Supporting Gender Equality Policies and Practices. *Sustainability*, ISSN 2071-1050, Special Issue "Sustainable Economic Development: Challenges, Policies, and Reforms", 12(9). Factor de impact 2020-3,251. <https://doi.org/10.3390/su12093558> WOS:000537476200057

**3. Leonardo Badea**, Daniel Ștefan Armeanu, Iulian Panait, Ștefan Cristian Gherghina (2019). A Markov Regime Switching Approach towards Assessing Resilience of Romanian Collective Investment Undertakings. *Sustainability*, ISSN 2071-1050, Special Issue "Resilient Infrastructure Systems and Sustainable Economic Growth", 11(5). Factor de impact 2020-3,251. <https://doi.org/10.3390/su11051325> WOS:000462661000109

**4. Oana Ramona Lobont**, Oana Ramona Glont, **Leonardo Badea**, Sorana Vataavu (2019). Correlation of military expenditures and economic growth: lessons for Romania. *Quality & Quantity: International Journal of Methodology*, Springer, 53(6), pp.2957-2968, Electronic ISSN 1573-7845, Print ISSN 0033-5177, indexat SCOPUS, ERIH PLUS, <https://doi.org/10.1007/s11135-019-00910-9>, <https://link.springer.com/article/10.1007/s11135-019-00910-9>.

**5. Leonardo Badea**, Valentin Ionescu, Adina-Alexandra Guzun (2019). WHAT IS THE CAUSAL RELATIONSHIP BETWEEN STOXX EUROPE 600 SECTORS? BUT BETWEEN LARGE FIRMS AND SMALL FIRMS? *Economic Computation and Economic Cybernetics Studies and Research*, ISSN (print): 0424–267X, 53(3), pp. 5-20. Factor de impact 2020-0,885. [http://www.ecocyb.ase.ro/nr2019\\_3/1.%20Badea%20Leonardo.%20\(T\).pdf](http://www.ecocyb.ase.ro/nr2019_3/1.%20Badea%20Leonardo.%20(T).pdf) WOS:000487267900001

**6. Leonardo Badea**, Iulian Panait, Adela Socol, Andreea Daniela Moraru (2018). Sentiment, Perception and Policy Determinants of Foreign Direct Investment to European Developing Countries. *Economic Computation and Economic Cybernetics Studies and Research*, ISSN (print): 0424–267X, 52(2), pp. 69-85. Factor de impact 2020-0,885. [http://www.ecocyb.ase.ro/nr2018\\_2/05%20-%20Badea%20Leonardo.%20Iulian%20Panait%20\(T\).pdf](http://www.ecocyb.ase.ro/nr2018_2/05%20-%20Badea%20Leonardo.%20Iulian%20Panait%20(T).pdf) WOS:000438007500005

**7. Alina Constantinescu**, **Leonardo Badea**, Madalina Meghisan (2015). Some sufficient optimality conditions in nondifferentiable multiobjective programming. *University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics*, ISSN 1223-7027, 77(2), pp.261-268. Factor de impact 2020- 0,903. [https://www.scientificbulletin.upb.ro/rev\\_docs\\_arhiva/rezebc\\_301397.pdf](https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rezebc_301397.pdf) WOS:000355574100025

**8. Alina Constantinescu**, **Leonardo Badea**, Mihnea Costoiu (2015).  $\eta$ - Pseudolinearity in multiobjective programming using the bifunctions class. *University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics*, ISSN 1223-7027, 77(4), pp.227-232. Factor de impact 2020- 0,903. [https://www.scientificbulletin.upb.ro/rev\\_docs\\_arhiva/full563\\_434893.pdf](https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full563_434893.pdf) WOS:000369178600022

**9. Leonardo Badea**, Alina Constantinescu, Adela Socol (2014). Matrix representation of a binary relation using fuzzy and artificial learning theory. An algorithm which uses the potential functions learning rule. *Optimization*, ISSN 0233-1934, 63(12), pp.1877-1891. Factor de impact 2020- 2,36. <https://www.tandfonline.com/doi/full/10.1080/02331934.2013.864455> WOS:000342323900007

**10. Alvaro Navarro**, Jose Luis, **Leonardo Badea**, Víctor Raúl Lopez Ruiz, Domingo Nevado Pena, Adriana Grigorescu, Liviu Voinea (2011). Measurement of National Non-Visible Wealth through Intellectual Capital. *Romanian Journal of Economic Forecasting*, ISSN

1582-6163, 14(3), pp.200-212. Factor de impact 2020 – 0,831. [http://www.ipe.ro/rjef/rjef3\\_11/rjef3\\_2011p200-212.pdf](http://www.ipe.ro/rjef/rjef3_11/rjef3_2011p200-212.pdf)  
WOS:000295664700011

## 2 Teza de doctorat

**T1.** *Analiza financiara a riscului de portofoliu pe piața de capital din România*, coordonator: Prof. univ. dr. Alexandru Olteanu, Academia de Studii Economice din București, susținută public la data de 13.12.2005, Diploma de Doctor Seria D0001466 eliberată nr. 191/08.06.2006.

**3 Cărți/cursuri** publicate în edituri recunoscute(Ca1, Ca2 etc.), îndrumare publicate(I1, I2 etc.), capitole publicate în volume colective, capitole teoretice redactate, (D1, D2 etc.), după caz, prin care se aduc contribuții la dezvoltarea activităților didactice/profesionale – 8 lucrări selectate.

**Ca1. Badea Leonardo**, Grigorescu Adriana (2014). *The Risk Diversification - Theories and Perceptions*. LAP LAMBERT Academic Publishing, ISBN-10: 3659591173; ISBN-13: 978-3659591174, 60 pagini.

**Ca2. Leonardo Badea** (coordonator), Adela Socol, Violeta Drăgoi, Imola Drigă (2010). *Managementul riscului bancar*. Editura Economică, ISBN 978-973-709-487-2, 500 pagini.

**Ca3. Leonardo Badea** (2010). *Gestiunea portofoliului de active*. Editura Pro Universitaria, ISBN 978-973-129-487-2, 256 pagini

**Ca4. Gheorghe D. Bistriceanu, Leonardo Badea** (2010). *Bugetul de stat al României*. Editura Bibliotheca, ISBN978-973-712-507-1, 430 pagini.

**Ca5. Leonardo Badea** (2005). *Gestiunea portofoliului de titluri primare*. Editura Economică, ISBN 973-709-157-4, 176 pagini.

**Ca6. Leonardo Badea**, Florina Mocanu (2007). *Piețe de capital, analiza și gestiunea plasamentelor financiare*. Editura Economică, ISBN 978-973-709-298-4, 200 pagini.

**D1.** Albu, Lucian, Anghelache, Constantin, **Badea, Leonardo** (2018). *Economia României în anii Centenarului*. În Văcărel, I. (coord. general), Anghelache, C. (coord. ediție). *Cunoaște România Centenară*, pp.231-240. Editura Economică. ISBN 978-973-709-874-0.

**D2. Badea, Leonardo** (2021). *Stabilitate și reglementare financiar-bancară*. În Boștină, C., Zaman, G., Istudor, N. (coord.). *Să gândim dincolo de zi. Modelul economic românesc în Uniunea Europeană România-Orizont 2040*, pp. 561-574. Editura Economică. ISBN 978-973-709-971-6.

**4 Cărți de specialitate** publicate în edituri recunoscute(Cb1, Cb2 etc.), **articole/studii** publicate in extenso în reviste de specialitate de circulație internațională recunoscute (reviste cotate ISI sau indexate în baze de date internaționale specifice domeniului)(Ri1, Ri2etc.), **articole/studii in extenso** publicate în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate (cu ISSN/ISBN)(Vi1,Vi2 etc.), precum și **alte lucrări similare**: articole/studii publicate in extenso în reviste de specialitate de circulație națională recunoscute CNCSIS (Rn1, Rn2 etc.), articole/studii publicate in extenso în volumele unor manifestări științifice naționale (cu ISSN/ISBN)(Vn1,Vn2 etc.), lucrări prezentate la diferite seminarii/expoziții, inovații etc.(E1, E2 etc.), după caz, prin care se aduc contribuții la dezvoltarea domeniului.

**Articole/studii** publicate in extenso în reviste de specialitate de circulație internațională recunoscute (reviste cotate ISI sau indexate în baze de date internaționale specifice domeniului)(Ri1, Ri2 etc.) – 13 lucrări selectate

**Ri1.** Meral KAGITCI, **Leonardo BADEA**, Vasile Cosmin NICULA (2021). The Catch-Up Effect Of Economic Growth. Evidence From The European Countries. Romanian Journal of Economic Forecasting, ISSN 1582-6163, 24(4), pp.76-86, Factor de impact 2020 – 0,831. [https://ipe.ro/rjef/rjef4\\_2021/rjef4\\_2021p76-86.pdf](https://ipe.ro/rjef/rjef4_2021/rjef4_2021p76-86.pdf)

**Ri2. Leonardo BADEA**, Andreea-Daniela MORARU, Constantin ILIE, Cristina DUHNEA, Iulian PANAIT (2021). Customer Satisfaction with Banking Services. Simulating the Influence of Customer Satisfaction Determinants Using Artificial Neural Network Algorithms. ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, ISSN (print): 0424-267X, 55(4), pp.101-115, Factor de impact 2020-0,885. [http://www.ecocyb.ase.ro/nr2021\\_4/7.%20Badea%20Leonardo,%20Iulian%20Panait%20.pdf.pdf](http://www.ecocyb.ase.ro/nr2021_4/7.%20Badea%20Leonardo,%20Iulian%20Panait%20.pdf.pdf)

**Ri3. Leonardo Badea**, Daniel Ștefan Armeanu, Dan Constantin Nitescu, Valentin Murgu, Iulian Panait, Boris Kuzman (2020). A Study of the Relative Stock Market Performance of Companies Recognized for Supporting Gender Equality Policies and Practices. Sustainability, ISSN 2071-1050, Special Issue "Sustainable Economic Development: Challenges, Policies, and Reforms", nr.12(9). Factor de impact 2020-3,251. <https://doi.org/10.3390/su12093558> WOS:000537476200057

**Ri4. Leonardo Badea**, Valentin Ionescu, Adina-Alexandra Guzun (2019). WHAT IS THE CAUSAL RELATIONSHIP BETWEEN STOXX EUROPE 600 SECTORS? BUT BETWEEN LARGE FIRMS AND SMALL FIRMS?, Economic Computation and Economic Cybernetics Studies and Research, ISSN (print): 0424-267X, 53(3), pp.5-20. Factor de impact 2020-0,885 [http://www.ecocyb.ase.ro/nr2019\\_3/1.%20Badea%20Leonardo.%20\(T\).pdf](http://www.ecocyb.ase.ro/nr2019_3/1.%20Badea%20Leonardo.%20(T).pdf) WOS:000487267900001

**Ri5. Leonardo Badea**, Daniel Ștefan Armeanu, Iulian Panait, Ștefan Cristian Gherghina (2019). A Markov Regime Switching Approach towards Assessing Resilience of Romanian Collective Investment Undertakings. Sustainability, ISSN 2071-1050, Special Issue "Resilient Infrastructure Systems and Sustainable Economic Growth", 11(5). Factor de impact 2020-3,251. <https://doi.org/10.3390/su11051325> WOS:000462661000109

**Ri6.** Oana Ramona Lobont, Oana Ramona Glont, **Leonardo Badea**, Sorana Vatavu (2019). Correlation of military expenditures and economic growth: lessons for Romania. Quality & Quantity: International Journal of Methodology, Springer, 53(6), pp.2957-2968, Electronic ISSN 1573-7845, Print ISSN 0033-5177, indexat SCOPUS, ERIH PLUS, <https://doi.org/10.1007/s11135-019-00910-9>, <https://link.springer.com/article/10.1007/s11135-019-00910-9>.

**Ri7. Leonardo Badea**, Iulian Panait, Adela Socol, Andreea-Daniela Moraru (2018). Sentiment, Perception and Policy Determinants of Foreign Direct Investment to European Developing Countries. Economic Computation and Economic Cybernetics Studies and Research, ISSN (print): 0424-267X, 52(2), pp.69-85. Factor de impact 2020-0,885. [http://www.ecocyb.ase.ro/nr2018\\_2/05%20-%20Badea%20Leonardo.%20Iulian%20%20Panait%20\(T\).pdf](http://www.ecocyb.ase.ro/nr2018_2/05%20-%20Badea%20Leonardo.%20Iulian%20%20Panait%20(T).pdf) WOS:000438007500005

**Ri8.** Alina Constantinescu, **Leonardo Badea**, Madalina Meghisan (2015). Some sufficient optimality conditions in nondifferentiable multiobjective programming. University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics, ISSN 1223-7027, 77(2), pp.261-268. Factor de impact 2020- 0,903. [https://www.scientificbulletin.upb.ro/rev\\_docs\\_arhiva/rezebc\\_301397.pdf](https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rezebc_301397.pdf) WOS:000355574100025

**Ri9.** Alina Constantinescu, **Leonardo Badea**, Mihnea Costoiu (2015).  $\eta$ - Pseudolinearity in multiobjective programming using the bifunctions class. University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics, ISSN 1223-7027, 77(4), pp.227-232. Factor de impact 2020- 0,903. [https://www.scientificbulletin.upb.ro/rev\\_docs\\_arhiva/full563\\_434893.pdf](https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full563_434893.pdf) WOS:000369178600022

**Ri10. Leonardo Badea**, Alina Constantinescu, Adela Socol (2014). Matrix representation of a binary relation using fuzzy and artificial learning theory. An algorithm which uses the potential functions learning rule. Optimization, ISSN 0233-1934, 63(12), pp.1877-1891. Factor de impact 2020- 2,36. <https://www.tandfonline.com/doi/full/10.1080/02331934.2013.864455> WOS:000342323900007

Ri11. Alfaro Navarro, Jose Luis, **Leonardo Badea**, Víctor Raúl Lopez Ruiz, Domingo Nevado Pena, Adriana Grigorescu, Liviu Voinea (2011). Measurement of National Non-Visible Wealth through Intellectual Capital. Romanian Journal of Economic Forecasting, ISSN 1582-6163, 14(3), 200-212. Factor de impact 2020 – 0,831. [http://www.ipe.ro/rjef/rjef3\\_11/rjef3\\_2011p200-212.pdf](http://www.ipe.ro/rjef/rjef3_11/rjef3_2011p200-212.pdf) WOS:000295664700011

Ri12. **Leonardo Badea** (2013). CAPM in the framework of current european capital market. Actual problems of economics, 8 (146), pp.172-182, ISSN 1993-6788 indexată EBSCO, SCOPUS.

Ri13. **Leonardo Badea**, Mihaela Teodorescu, Larisa Preda, George Ceausu (2010). MODELS ANALYSIS OF INVESTMENT PROJECTS APPLICABLE IN ROMANIAN INDUSTRY. RECENT ADVANCES IN BUSINESS ADMINISTRATION. 4th WSEAS International Conference on Business Administration, Univ Cambridge, Cambridge, ENGLAND. În Zadeh, L.A., Kacprzyk, J., Mastorakis, N., KuriMorales, A., Borne, P., Kazovsky, L. (Eds.), RECENT ADVANCES IN BUSINESS ADMINISTRATION, Book Series Recent Advances in Computer Engineering, pp. 164-168. ISSN 1790-5109. WOS:000276718400020.

**5. Citări ale lucrărilor publicate:** referința bibliografică a lucrării citate (Ci1, Ci2) și referința / ele bibliografică / e a / ale lucrării care citează (Ci1.1, Ci1.2....., Ci2.1, Ci2.2, etc.) – 10 citări selectate

**Ci1.** Rajab, S., Sharma, V. (2018). A review on the applications of neuro-fuzzy systems in business. ARTIFICIAL INTELLIGENCE REVIEW, 49 (4), 481-510. WOS:000426912500002  
citează

Constantinescu, A., **Badea, L.**, Cucui, I., & Ceausu, G. (2010). Neuro-Fuzzy Classifiers for Credit Scoring, RECENT ADVANCES IN MANAGEMENT, MARKETING, FINANCES: PROCEEDINGS OF THE 8TH WSEAS INTERNATIONAL CONFERENCE (MMF 10), Edited by: Mastorakis, N; Mladenov, V; Zaharim, A; Bulucea, CA, Book Series: Recent Advances in Electrical Engineering. WOS:000284993300018

**Ci2.** Taute, H.A., Sierra, J.J. (2015). An Examination of Emotional Information Management in Gift Giving and Receipt. Psychology & Marketing, 32(2), 203-218. WOS:000349072100006  
citează

**Badea, L.,** Pană, N.A. (2010). The Role of Empathy in Developing the Leader's Emotional Intelligence. *Theoretical & Applied Economics*, XVII(2), 69-78. <http://store.ectap.ro/articole/442.pdf>

**Ci3.** Popescu, G.H., Istudor, N., Nica, E., Vasile, A.J., & Ion, R.A. (2017). The influence of land-use change paradigm on Romania's agro-food trade competitiveness-An overview. *Land Use Policy*,61, 293-301. WOS:000392766800026  
citează

**Badea, L. & Mieila, M.** (2008). The economic efficiency of field crops cultivation in south Romania: trends and actions for improvement. *Annales Universitatis Apulensis Series Oeconomica*. 1(10), 1-34. <http://oeconomica.uab.ro/upload/abst/1020081/34.pdf>

**Ci4.** Constantin, C., Luminita C., & Vasile, A.J. (2017). Land grabbing: A review of extent and possible consequences in Romania. *Land Use Policy*, 62, 143-150. WOS:000394633900013  
citează

**Badea, L. & Mieila, M.** (2008). The economic efficiency of field crops cultivation in south Romania: trends and actions for improvement. *Annales Universitatis Apulensis Series Oeconomica*. 1(10), 1-34. <http://oeconomica.uab.ro/upload/abst/1020081/34.pdf>

**Ci5.** Achim, M.V., Borlea, S.N., & Mare, C. (2018). Geocentric Behavior Dimension of the Organization 'Performance in the Context of Globalization. *Social Indicators Research*, 135(1), 401-420. WOS:000423357900019  
citează

Croitoru, G., **Badea, L.,** & Popa, G. (2011). Interculturality impact on performance management. *REVISTA ECONOMICĂ*, 114-120. <http://economice.ulbsibiu.ro/revista.economica/archive/RE%203-56-2011.pdf>

**Ci6.** Lukac, Z., Cizmesija, M. (2021). (Re)Constructing the European Economic Sentiment Indicator: An Optimization Approach, *SOCIAL INDICATORS RESEARCH*, 155(3), pp.939-958, DOI 10.1007/s11205-020-02602-6, WOS:000616430400001  
citează

**Leonardo Badea,** Iulian Panait, Adela Socol, Andreea Daniela Moraru (2018). Sentiment, Perception and Policy Determinants of Foreign Direct Investment to European Developing Countries. *Economic Computation and Economic Cybernetics Studies and Research*, ISSN (print): 0424-267X, 52(2), 69-85. [http://www.ecocyb.ase.ro/nr2018\\_2/05%20-%20Badea%20Leonardo,%20Iulian%20Panait%20\(T\).pdf](http://www.ecocyb.ase.ro/nr2018_2/05%20-%20Badea%20Leonardo,%20Iulian%20Panait%20(T).pdf). WOS:000438007500005

**Ci7.** Manea I., Manea, L., Radulescu, C., Dulama, ID, Teodorescu, S., Stirbescu, R.M., Chelarescu, E.D., Bucurica, I.A. (2017). ASSESSMENT OF METALS LEVEL IN SEVERAL MEAT PRODUCTS OBTAINED THROUGH CONVENTIONAL AND TRADITIONAL METHODS. *Romanian Reports in Physics*, 69 (4). WOS:000417112800013  
citează

Constantinescu, A., **Badea, L.,** & Meghisan, M. (2015). Some sufficient optimality conditions in nondifferentiable multiobjective programming. *University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics*, ISSN 1223-7027, 77(2), 261-268.

**Ci8.** Ilie, C., Ploae, C., Melnic, L.V., Cotrumba, M.R., Gurau, A.M., & Alexandra, C. (2019). Sustainability through the Use of Modern Simulation Methods Applied Artificial Intelligence. *Sustainability*, 11(8). WOS:000467752200197  
citează

**Badea, L.,** Panait, I., Socol, A., & Moraru, A.-D. (2018). Sentiment, perception and policy determinants of foreign direct investment to European developing countries. *Economic Computation and Economic Cybernetics Studies and Research*, 52(2), 69-85.

**Ci9.** Manea I., Manea, L., Radulescu, C., Dulama, ID, Teodorescu, S., Stirbescu, R.M., Chelarescu, E.D., & Bucurica, I.A. (2017). ASSESSMENT OF METALS LEVEL IN SEVERAL MEAT PRODUCTS OBTAINED THROUGH CONVENTIONAL AND TRADITIONAL METHODS. *Romanian Reports in Physics*, 69 (4), WOS:000417112800013  
citează

**Badea, L.,** Constantinescu, A., Grigorescu, A., & Visileanu, E. (2016). Time optimization of the textile manufacturing process using the stochastic processes. *INDUSTRIA TEXTILA*, 67(3), 205-209. [http://www.revistaindustriatextila.ro/images/2016/Textila\\_nr\\_3\\_2016.pdf](http://www.revistaindustriatextila.ro/images/2016/Textila_nr_3_2016.pdf). WOS:000378837400009

**Ci10.** Cizmesija, M., Skrinjaric, T. (2021). Economic sentiment and business cycles: A spillover methodology approach, *ECONOMIC SYSTEMS*, 45(3), DOI10.1016/j.ecosys.2020.100770, WOS:000696715600001  
citează

**Leonardo Badea,** Iulian Panait, Adela Socol, Andreea Daniela Moraru (2018). Sentiment, Perception and Policy Determinants of Foreign Direct Investment to European Developing Countries. *Economic Computation and Economic Cybernetics Studies and Research*, ISSN (print): 0424-267X, 52(2), 69-85. [http://www.ecocyb.ase.ro/nr2018\\_2/05%20-%20Badea%20Leonardo,%20Iulian%20Panait%20\(T\).pdf](http://www.ecocyb.ase.ro/nr2018_2/05%20-%20Badea%20Leonardo,%20Iulian%20Panait%20(T).pdf) WOS:000438007500005

**Candidat,**  
**Prof.univ.dr. Leonardo Badea**

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