

Universitatea "Alexandru Ioan Cuza" din Iași
 Facultatea de Geografie și Geologie
 Departamentul de Geologie
Dr. APOPEI Andrei Ionuț

FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII

I. Activitatea de cercetare (70%)

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact (60 puncte x factor de impact +25) / număr autori

1. Buzatu A., Damian G., Dill H. G., Buzgar N., **Apopei A. I.** (2015) – Mineralogy and geochemistry of sulfosalts from Baia Sprie ore deposit (Romania) – New bismuth minerals occurrence. *Ore Geology Reviews*, 65-1, p. 132-147. 45,60 p.
2. Buzgar N., Buzatu A., **Apopei A. I.**, Cotiugă V. (2014) – In-situ Raman spectroscopy at the Voroneț Monastery (16th century, Romania): New results for green and blue pigments. *Vibrational Spectroscopy*, 72, 142-148 (ISSN 0924-2031). 29,45 p.
3. **Apopei A. I.**, Damian G., Buzgar N., Milovska S., Buzatu A. (2014) – New occurrences of hessite, petzite and stützite at Coranda-Hondol open pit (Certej gold-silver deposit, Romania). *Carpathian Journal of Earth and Environmental Sciences*, 9 (2), 71-78 (ISSN 1842-4090). 13,72 p.
4. **Apopei A. I.**, Buzgar N., Damian G., Buzatu A. (2014) – The Raman study of weathering minerals from Coranda-Hondol open pit (Certej gold-silver deposit) and their photochemical degradation products under laser irradiation (accepted, in press). *The Canadian Mineralogist*. 23,26 p.
5. Buzatu A., Buzgar N., Damian G., Vasilache V., **Apopei I. A.** (2013) – The determination of the Fe content in natural sphalerites by means of Raman spectroscopy. *Vibrational Spectroscopy*, 68, 220-224 (ISSN: 0924-2031). 23,56 p.
6. Buzgar N., **Apopei A. I.**, Buzatu A. (2013) – Characterization and source of Cucuteni black pigment (Romania): vibrational spectrometry and XRD study. *Journal of Archaeological Sciences*, 40 (4), 2128-2135 (ISSN 0305-4403). 51,11 p.

Punctaj I.1: 45,60 + 29,45 + 13,72 + 23,26 + 23,56 + 51,11 = 186,7 p.

3. Articole științifice publicate *in extenso* în reviste indexate BDI (15 puncte / număr autori)

1. Buzgar, N., **Apopei, A. I.**, Diaconu, V., Buzatu, A. (2013) – The composition and source of the raw material of two stone axes of Late Bronze Age from Neamț County (Romania) - A Raman study. *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, 59 (1), 5-22 (ISSN 1223-5342, categoria B+). 3,75 p.
2. **Apopei A. I.**, Damian G., Buzgar N. (2012) – A preliminary Raman and FT-IR spectroscopic study of secondary hydrated sulfate minerals from the Hondol open pit (Metaliferi Mts., ROMANIA). *Romanian Journal of Mineral Deposits*, 85, 2, p.1-6. 5 p.
3. Buzgar N., Buzatu A., **Apopei A. I.**, Aștefanei D., Topoleanu F. (2011) – Raman study of the brownish-yellow pigment from a Roman Basilica (Dobrogea, Romania – 4th – 6th century A.D.). *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, 57 (2), 15-18 (ISSN 1223-5342, categoria B+). 3 p.

4. **Apopei A. I.**, Buzgar N., Buzatu A. (2011) – Raman and infrared spectroscopy of kaersutite and certain common amphiboles. *Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, seria Geologie*, 57 (2), 35-58 (ISSN 1223-5342, categoria B+). **5 p.**
5. Buzgar N., Bodi G., Buzatu A., **Apopei A.I.**, Aștefanei D. (2010) – Raman and XRD studies of black pigment from Cucuteni ceramics. *Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, seria Geologie*, LVI (2), 95-108 (ISSN 1223-5342, categoria B+). **3 p.**
6. **Apopei A. I.**, Buzgar N. (2010) – The Raman study of amphiboles. *Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, seria Geologie*, LVI (1), 107-125 (ISSN 1223-5342, categoria B+). **7,5 p.**
7. Buzgar N., **Apopei A. I.** (2009) – The Raman study of certain carbonates. *Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, seria Geologie*, LV (2), 98-112 (ISSN 1223-5342, categoria B+). **7,5 p.**

Punctaj I.3: $3,75 + 5 + 3 + 5 + 3 + 7,5 + 7,5 = \underline{\underline{34,75 \text{ p.}}}$

10. Contracte de cercetare în mediul de afaceri și sectorul public

- firme multinaționale: 100 puncte pentru fiecare 100000 Euro

Contract nr. C981073 (2012-2015) între Universitatea “Al. I. Cuza” din Iași și Chevron Ltd., valoare 2012-2014 - 152.000 Euro.

Punctaj I.10: $100 \times 1,52 = \underline{\underline{152 \text{ p.}}}$

12. Citări și recenzii ale lucrărilor științifice

- reviste de specialitate din străinătate: $(10 + 20 \times \text{factor de impact}) / \text{număr autori}$, pentru fiecare citare

Buzgar N., Apopei A.I., Buzatu A. (2013) - Characterization and source of Cucuteni black pigment (Romania): vibrational spectrometry and XRD study. *Journal of Archaeological Sciences*, 40 (4), p. 2128-2135.

Citată în :

Wang, N., He, L., Egel, E., Simon, S. & Rong, B. (2014) - Complementary analytical methods in identifying gilding and painting techniques of ancient clay-based polychromic sculptures. *Microchemical Journal*, 114, p. 125-140. $IF(2014) = 3,583; (10 + 20 \times 3,583)/3 = \underline{\underline{27,22 \text{ p.}}}$

Apopei, A.I., Buzgar, N., Buzatu, A. (2013) - Raman Data Search and Storage (RDSS): A Raman Spectra Library Software Using Peak Positions for Fast and Accurate Identification of Unknown Inorganic Compounds. (<http://rdrs.uaic.ro>)

Citată în :

1. Crupi, V., Giunta, A., Kellett, B., Longo, F., Maisano, G., Majolino, D., Scherillo, A., Venuti, V. (2014) - Handheld and non-destructive methodologies for the compositional investigation of meteorite fragments. *Analytical Methods*, 6 (16), p. 6301-6309. $IF(2014) = 1,938; (10 + 20 \times 1,938)/3 = \underline{\underline{16,25 \text{ p.}}}$

2. Barone, G., Crupi, V., Longo, F., Majolino, D., Mazzoleni, P., Raneri, S., Venuti, V. (2014) - A multi-technique approach for the characterization of decorative stones and non-destructive method for the discrimination of similar rocks. *X-ray Spectrometry*, 43 (2), p. 83-92. $IF(2014) = 1,187; (10 + 20 \times 1,187)/3 = \underline{\underline{11,24 \text{ p.}}}$

Apopei A. I., Damian G., Buzgar N. (2012) - A Preliminary Raman and FT-IR Spectroscopic study of secondary hydrated sulfate minerals from the Hondol open pit (Metaliferi Mts., Romania). *Journal of Mineral Deposits*, 85, p. 1–6.

Citată în:

1. Lane, M. D., Bishop, J. L., Dyar, M. D., Hiroi, T., Mertzman, S. A., Bish, D. L., ... & Rogers, A. D. (2015) - Mid-infrared emission spectroscopy and visible/near-infrared reflectance spectroscopy of Fe-sulfate minerals. *American Mineralogist*, 100(1), p. 66-82.

IF(2014) = 2,059; $(10 + 20 \cdot 2,059)/3 = 17,06$ p.

2. Ferreira N. M., Kovalevsky A. V., Waerenborgh J. C., Quevedo-Reyes M., Timopheev A.A., Costa F.M., Frade J.R. (2014) - Crystallization of iron-containing Si-Al-Mg-O glasses under laser floating zone conditions. *Journal of Alloys and Compounds*, 611, p. 57-64. IF(2014) = 2,726; $(10 + 20 \cdot 3,583)/3 = 21,51$ p.

Buzgar N., Buzatu A., Apopei A.I., Aștefanei D., Topoleanu F. (2011) - Raman study of the brownish-yellow pigment from a Roman Basilica (Dobrogea, Romania – 4th – 6th century A.D.). *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, 57 (2), p. 15-18.

Citată în:

1. Pelosi, C., Agresti, G., Andaloro, M., Baraldi, P., Pogliani, P., Santamaria, U., La Russa M.F., Ruffolo S.A., Rovella, N. (2015). Micro-Raman And Micro-Stratigraphic Analysis Of The Painting Materials In The Rock-Hewn Church Of The Forty Martyrs In Şahinefendi, Cappadocia (Turkey). *Archaeometry*. doi: 10.1111/arcm.12184. IF(2014) = 1,328; $(10 + 20 \cdot 1,328)/5 = 7,31$ p.

2. Sepúlveda, M., Gutierrez, S., Campos-Vallette, M., Clavijo, E., Walter, P., Cárcamo, J. (2013) - Raman spectroscopy and X-ray fluorescence in molecular analysis of yellow blocks from the archeological site Playa Miller 7 (northern Chile). *Journal of the Chilean Chemical Society*, 58(3), p. 1836-1839. IF(2013) = 0,469; $(10 + 20 \cdot 0,469)/5 = 3,87$ p.

Apopei A.I., Buzgar N., Buzatu A. (2011) - Raman and infrared spectroscopy of kaersutite and certain common amphiboles. *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, 57 (2), p. 35-58.

Citată în:

1. Pawlikowski, M., Benko, A., & Wróbel, T. P. (2013) - Degradation of Glycine and Alanine on Irradiated Quartz. *Origins of Life and Evolution of Biospheres*, p. 1-9. IF(2013) = 1,765 - $(10 + 20 \cdot 1,765)/3 = 15,1$ p.

2. Zaitsev, A. N., Avdontseva, E. Y., Britvin, S. N., Demény, A., Homonnay, Z., Jeffries, T. E., ... & Vennemann, T. (2013) - Oxo-magnesio-hastingsite, NaCa₂(Mg₂Fe₃)(Al₂Si₆)O₂₂O₂, a new anhydrous amphibole from the Deeti volcanic cone, Gregory rift, northern Tanzania. *Mineralogical Magazine*, 77(6), p. 2773-2792. IF(2013) = 1,898 - $(10 + 20 \cdot 1,898)/3 = 15,98$ p.

Buzgar N., Bodi G., Buzatu A., Apopei A.I., Aștefanei D. (2010) - Raman and XRD studies of black pigment from Cucuteni ceramics. *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, LVI (2), p. 95-108.

Citată în:

1. Matau, F., Nica, V., Postolache, P., Ursachi, I., Cotiuga, V., & Stancu, A. (2013) - Physical study of the Cucuteni pottery technology. *Journal of Archaeological Science*, 40 (2), p. 914-925. IF(2013) = 2.139; $(10 + 20 \cdot 2.139)/5 = 10,55$ p.

2. Boldea, D. A., Praisler, M., Quaranta, M., & Minguzzi, V. (2013) - Multi-technique characterisation of painted eneolithic ceramics originating from Cucuteni (Romania).

European Journal of Science and Theology, 9(4), p. 253-262. IF(2013) = 0,0; $(10 + 20 \cdot 0,0)/4 = \underline{2,5 \text{ p.}}$

Apopei A. I., Buzgar N. (2010) - The Raman study of amphiboles. *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, LVI (1), p. 57-83.

Citată în:

1. Yin, F., Chen, M. (2014) - Shock-metamorphic features in amphiboles from the Xiuyan crater of China. *Contributions to Mineralogy and Petrology*, 167 (4), p. 1-10. IF(2014) = 3,02; $(10 + 20 \cdot 3,02)/2 = \underline{35,2 \text{ p.}}$

2. Yang, H., Downs, R. T., Evans, S. H., & Pinch, W. W. (2014) - Lavinskyite, $\text{K}(\text{LiCu})\text{Cu}_6(\text{Si}_4\text{O}_{11})_2(\text{OH})_4$, isotypic with plancheite, a new mineral from the Wessels mine, Kalahari Manganese Fields, South Africa. *American Mineralogist*, 99(2-3), p. 525-530. IF(2014) = 2,059; $(10 + 20 \cdot 2,059)/2 = \underline{25,59 \text{ p.}}$

3. Wang, Y. Y., Gan, F. X., & Zhao, H. X. (2013) - Inclusions of black-green serpentine jade determined by Raman spectroscopy. *Vibrational Spectroscopy*, 66, p. 19-23. IF(2013) = 1,547; $(10 + 20 \cdot 1,547)/2 = \underline{20,47 \text{ p.}}$

4. Gualtieri, A.F., Giacobbe, C., Rinaudo, C., Croce, A., Allegrina, M., Gaudino, G., Yang, H., Carbone, M. (2013) - Preliminary results of the spectroscopic and structural characterization of mesothelioma inducing crocidolite fibers injected in mice. *Periodico di Mineralogia*, 82(2). IF(2013) = 0,804; $(10 + 20 \cdot 0,804)/2 = \underline{13,04 \text{ p.}}$

5. Miura, M., Arai, S., Ahmed, A. H., Mizukami, T., Okuno, M., & Yamamoto, S. (2012) - Podiform chromitite classification revisited: A comparison of discordant and concordant chromitite pods from Wadi Hilti, northern Oman ophiolite. *Journal of Asian Earth Sciences*, 59, p. 52-61. IF(2012) = 2,379; $(10 + 20 \cdot 2,379)/2 = \underline{28,79 \text{ p.}}$

Buzgar N., Apopei A.I. (2009) - The Raman study of certain carbonates. *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie*, LV (2), p. 97-112.

Citată în:

1. Hooijschuur, J. H., Verkaaik, M. F. C., Davies, G. R., & Ariese, F. (2015) - Will Raman meet bacteria on Mars? An overview of the optimal Raman spectroscopic techniques for carotenoid biomarkers detection on mineral backgrounds. *Netherlands Journal of Geosciences*, 1-11. IF(2014) = 0,82; $(10 + 20 \cdot 0,82)/2 = \underline{13,2 \text{ p.}}$

2. Wei, J., Wang, A., Lambert, J. L., Wettergreen, D., Cabrol, N., Warren-Rhodes, K., & Zacny, K. (2015) - Autonomous soil analysis by the Mars Micro-beam Raman Spectrometer (MMRS) on-board a rover in the Atacama Desert: a terrestrial test for planetary exploration. *Journal of Raman Spectroscopy*. IF(2014) = 2,519; $(10 + 20 \cdot 2,519)/2 = \underline{30,19 \text{ p.}}$

3. Chiriu, D., Ricci, P. C., Polcaro, A., Braconi, P., Lanzi, D., & Nadali, D. (2014) - Raman study on Pompeii potteries: the role of calcium hydroxide on the surface treatment. *Journal of Spectroscopy*. IF(2014) = 0,00; $(10 + 20 \cdot 0,00)/2 = \underline{5 \text{ p.}}$

4. Carmen Rocha, C., John A. Peterson, J. A., Jalandoni, A., Chianelli, R. R., Ma, L. (2014) - Paleoenvironmental investigations, chemical analysis and characterization of underwater strata of Marigondon Cave. *Quaternary International*. IF(2014) = 2,128; $(10 + 20 \cdot 2,128)/2 = \underline{26,28 \text{ p.}}$

5. Sánchez-Román, M., Fernández-Remolar, D., Amils, R., Sánchez-Navas, A., Schmid, T., San Martín-Uriz, P., ... & Vasconcelos, C. (2014) - Microbial mediated formation of Fe-carbonate minerals under extreme acidic conditions. *Scientific Reports*, 4, Article number: 4767. IF(2014) = 5,078; $(10 + 20 \cdot 5,078)/2 = \underline{55,78 \text{ p.}}$

6. Fortes, A. D., Wood, I. G., Alfè, D., Hernández, E. R., Gutmann, M. J., Sparkes, H. A. (2014) - Structure, hydrogen bonding and thermal expansion of ammonium carbonate monohydrate. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 70(6), p. 948-962. IF(2014) = 2,095; $(10 + 20 \cdot 2,095)/2 = \underline{46,9 \text{ p.}}$

7. Galante-Oliveira, S., Marçal, R., Guimarães, F., Soares, J., Lopes, J. C., Machado, J., & Barroso, C. (2014) - Crystallinity and Microchemistry of *Nassarius reticulatus* (Caenogastropoda) statoliths: towards their structure stability and homogeneity. *Journal of Structural Biology*, 186(2), p. 292-301. IF(2014) = 3,369; $(10 + 20 \cdot 3,369)/2 = \underline{38,69 \text{ p.}}$
8. Krzesińska, A., & Fritz, J. (2014) - Weakly shocked and deformed CM microxenoliths in the Pultusk H chondrite. *Meteoritics & Planetary Science*, 49(4), p. 595-610. IF(2014) = 2,827; $(10 + 20 \cdot 2,827)/2 = \underline{33,27 \text{ p.}}$
9. Hooijschuur, J. H., Iping Petterson, I. E., Davies, G. R., Gooijer, C., & Ariese, F. (2013) - Time resolved Raman spectroscopy for depth analysis of multi-layered mineral samples. *Journal of Raman Spectroscopy*, 44(11), p. 1540-1547. IF(2013) = 2,519; $(10 + 20 \cdot 2,519)/2 = \underline{30,19 \text{ p.}}$
10. Macchia, A., Laurenzi Tabasso, M., Salvi, A. M., Sammartino, M. P., Mangialardo, S., Dore, P., & Postorino, P. (2013) - Analytical characterization of corrosion products of copper and its alloys on stained stone surfaces. *Surface and Interface Analysis*, 45(7), p. 1073-1080. IF(2013) = 1,393; $(10 + 20 \cdot 1,393)/2 = \underline{18,93 \text{ p.}}$
11. Yin, S., Zeng, Y., Li, C., Chen, X., & Ye, Z. (2013) - Investigation of $\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}/\text{Na}_2\text{CO}_3$ Nanocomposite Electrolytes: Preparation, Interfacial Microstructures, and Ionic Conductivities. *ACS applied materials & interfaces*, 5(24), p. 12876-12886. IF(2013) = 5,9 - $(10 + 20 \cdot 5,9)/2 = \underline{64 \text{ p.}}$
12. Lin, J. F., Liu, J., Jacobs, C., & Prakapenka, V. B. (2012) - Vibrational and elastic properties of ferromagnesite across the electronic spin-pairing transition of iron. *American Mineralogist*, 97(4), p. 583-591. IF(2012) = 2,204; $(10 + 20 \cdot 2,204)/2 = \underline{27,04 \text{ p.}}$
13. Karapanagiotis, I., Lampakis, D., Konstanta, A., & Farmakalidis, H. (2012) - Identification of colourants in icons of the Cretan School of iconography using Raman spectroscopy and liquid chromatography. *Journal of Archaeological Science*, 40(3), p. 1471-1478. IF(2012) = 1,889; $(10 + 20 \cdot 1,889)/2 = \underline{23,89 \text{ p.}}$

Buzgar, N., Buzatu, A., Apopei, A.I., Cotiuga, V., Topoleanu, F. (2010) - Mineral pigments of greco-roman and byzantine ages from Dobrogea (abstract). *Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, seria Geologie, Special. Issue, GEO IASI – 2010, p. 13.*

Citată în:

1. Pelosi, C., Agresti, G., Andaloro, M., Baraldi, P., Pogliani, P., Santamaria, U., La Russa M.F., Ruffolo S.A., Rovella, N. (2015) - Micro-Raman And Micro-Stratigraphic Analysis Of The Painting Materials In The Rock-Hewn Church Of The Forty Martyrs In Sahinefendi, Cappadocia (Turkey). *Archaeometry*. doi: 10.1111/arc.12184. IF(2014) = 1,328 - $(10 + 20 \cdot 1,328)/5 = \underline{7,31 \text{ p.}}$

Buzgar N., Apopei A.I., Buzatu A., (2009) - Romanian Database of Raman Spectroscopy. (<http://rdrs.uaic.ro>)

Citată în:

1. Serrano, P., Wagner, D., Böttger, U., De Vera, J.-P., Lasch, P., Hermelink, A. (2014) - Single-cell analysis of the methanogenic archaeon *Methanosarcina soligelidi* from Siberian permafrost by means of confocal Raman microspectroscopy for astrobiological research. *Planetary and Space Science*, 98, p. 191-197. IF(2013) = 1,63 - $(10 + 20 \cdot 1,63)/3 = \underline{14,2 \text{ p.}}$
2. Matroodi, F., & Tavassoli, S. H. (2014) - Experimental investigation on concurrent LIBS-Raman spectroscopy. *Applied Optics*, 53, p. 400-407. IF(2013) = 1,649 - $(10 + 20 \cdot 1,649)/3 = \underline{14,32 \text{ p.}}$
3. Matroodi, F., & Tavassoli, S. H. (2014) - Simultaneous Raman and laser-induced breakdown spectroscopy by a single setup. *Applied Physics B*, p. 1-9. doi: 10.1007/s00340-014-5929-4. IF(2013) = 1,634 - $(10 + 20 \cdot 1,634)/3 = \underline{14,22 \text{ p.}}$

4. Gardner, P., Bertino, M.F., Weimer, R., Hazelrigg, E. (2013) - Analysis of lipsticks using Raman spectroscopy. *Forensic Science International*, 232 (1-3), p. 67-72. **IF(2013) = 2,115 - $(10 + 20 \cdot 2,115)/3 = 17,43$ p.**

5. El Bakkali, A., Lamhasni, T., Haddad, M., Ait Lyazidi, S., Sanchez-Cortes, S., Del Puerto Nevado, E. (2013) - Non-invasive micro Raman, SERS and visible reflectance analyses of coloring materials in ancient Moroccan Islamic manuscripts. *Journal of Raman Spectroscopy*, 44 (1), 114-120. **IF(2013) = 2,519 - $(10 + 20 \cdot 2,519)/3 = 20,12$ p.**

Punctaj I.12: $27,22 + 16,25 + 11,24 + 17,06 + 21,51 + 7,31 + 3,87 + 15,1 + 15,98 + 10,55 + 2,5 + 35,2 + 25,59 + 20,47 + 13,04 + 28,79 + 13,2 + 30,19 + 5 + 26,28 + 55,78 + 46,9 + 38,69 + 33,27 + 30,19 + 18,93 + 64 + 27,04 + 23,89 + 7,31 + 14,2 + 14,32 + 14,22 + 17,43 + 20,12 = 772,64$ p.

15. Editor/Membru în Editorial Board & Advisory Board

- reviste cotate Web of Science

Carpathian Journal of Earth and Environmental Sciences (ISSN 1842-4090) - membru Scientific Board – **20 p.**

Punctaj I.15: 20 p.

Punctaj activitate științifică: $186,7 + 34,75 + 152 + 772,64 + 20 = 1166,09$ puncte.

II. Activitatea didactică (30%)

3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate: 10 puncte pentru fiecare activitate

Materiale suport cursuri: **10 p.**

- Mineralogie 1

Materiale suport lucrări practice: **40 p.**

- Mineralogie 1

- Mineralogie 2

- Petrologie magmatică

- Geoinformatică

Punctaj II.3: 50,00 p.

4. Organizare de aplicații și practică de specialitate: 5 puncte pentru fiecare activitate

Organizare practică de specialitate 2012-2014 (3 practici). **15 p.**

Punctaj II.4: 15,00 p.

Punctaj activitate didactică: $50 + 15 = 65$ puncte.

PUNCTAJ TOTAL = $1166,09 \cdot 0,7 + 65 \cdot 0,3 = 835.763$ puncte.