

## Lista de lucrări ale candidatului

a) 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;

1. Czibula Gabriela, Mihai Andrei, Mihulet Eugen, NowDeepN: An ensemble of deep learning models for weather nowcasting based on radar products' values prediction 11(1) 125 1 - 23 2021 Science Citation Index Expanded (Thomson Reuters - Web of Science), Applied Sciences-Basel
2. Czibula Gabriela, Mihai Andrei, Albu Alexandra - Ioana, Czibula Istvan-Gergely, Burcea Sorin, Mezghani Abdelkader, AutoNowP: An approach using deep autoencoders for precipitation nowcasting based on weather radar reflectivity prediction 9(14) 1 – 22 2021 Science Citation Index Expanded (Thomson Reuters - Web of Science), Scopus, Mathematics
3. Albu Alexandra - Ioana, Czibula Gabriela, Mihai Andrei, Czibula Istvan-Gergely, Burcea Sorin, Mezghani Abdelkader, NeXtNow: A Convolutional Deep Learning Model for the Prediction of Weather Radar Data for Nowcasting Purposes 14(16), 3890 1 – 25 2022 Science Citation Index Expanded (Thomson Reuters - Web of Science), Scopus, REMOTE SENSING.
4. Mihulet Eugen, Burcea Sorin, Mihai Andrei, Czibula Gabriela, Enhancing the Performance of Quantitative Precipitation Estimation Using Ensemble of Machine Learning Models Applied on Weather Radar Data Vol. 154. no. 1, an 2023 1 - 27 2023 Science Citation Index Expanded (Thomson Reuters - Web of Science), ATMOSPHERE.
5. Czibula Gabriela, Mihai Andrei, Crivei Liana Maria, SPRAR: A novel relational association rule mining classification model applied for academic performance prediction 1 10 2019 23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems Elsevier
6. Czibula Gabriela, Mihai Andrei, Teodorovici Daniel, Mihulet Eugen, Using self-organizing maps for unsupervised analysis of radar data for nowcasting purposes 1 10 2019 Proceedings of KES 2019 23rd International Conference on Knowledge-Based and Intelligent Information and Engineering Systems Elsevier
7. Crivei Liana Maria, Czibula Gabriela, Mihai Andrei, A study on applying relational association rule mining based classification for predicting the academic performance of students 1 12 2019 The 12th International Conference on Knowledge Science Engineering and Management (KSEM 2019) Springer
8. Andrei, Ionescu Vlad - Sebastian, XNow: A deep learning technique for nowcasting based on radar products' values prediction 117 122 2020 Proceedings of SACI 2020 IEEE 14th International Symposium on Applied Computational Intelligence and Informatics SACI 2020 IEEE Computer Society
9. Czibula Gabriela, Mihai Andrei, Czibula Istvan-Gergely, RadRAR: A relational association rule mining approach for nowcasting based on predicting radar products

values 300 309 2020 Proceedings of 24th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems KES 2020 Elsevier

10. Mihai Andrei, Using self-organizing maps as unsupervised learning models for meteorological data mining 23 28 2020 2020 IEEE 14th International Symposium on Applied Computational Intelligence and Informatics SACI 2020 IEEE Computer Society

**b) teza sau tezele de doctorat;**

Teză de doctorat în domeniul Informatică – Inteligență artificială cu titlul: Machine learning models for weather nowcasting sub înfrumarea prof. Czibula Gariela, Universitatea Babeș-Bolyai.

**c) brevete de invenție și alte titluri de proprietate industrială;**

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**d) cărți și capitole în cărți;**

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**e) articole/studii, publicate în reviste din fluxul științific internațional principal;**

1. Czibula Gabriela, Mihai Andrei, Mihulet Eugen, NowDeepN: An ensemble of deep learning models for weather nowcasting based on radar products' values prediction 11(1) 125 1 - 23 2021 Science Citation Index Expanded (Thomson Reuters - Web of Science), Applied Sciences-Basel
2. Czibula Gabriela, Mihai Andrei, Albu Alexandra - Ioana, Czibula Istvan-Gergely, Burcea Sorin, Mezghani Abdelkader, AutoNowP: An approach using deep autoencoders for precipitation nowcasting based on weather radar reflectivity prediction 9(14) 1 - 22 2021 Science Citation Index Expanded (Thomson Reuters - Web of Science), Scopus, Mathematics
3. Albu Alexandra - Ioana, Czibula Gabriela, Mihai Andrei, Czibula Istvan-Gergely, Burcea Sorin, Mezghani Abdelkader, NeXtNow: A Convolutional Deep Learning Model for the Prediction of Weather Radar Data for Nowcasting Purposes 14(16), 3890 1 – 25 2022 Science Citation Index Expanded (Thomson Reuters - Web of Science), Scopus, REMOTE SENSING
4. Mihulet Eugen, Burcea Sorin, Mihai Andrei, Czibula Gabriela, Quantitative precipitation estimation using an ensemble of machine learning models applied on weather radar data Vol. 154. no. 1, an 2023 1 - 27 2023 Science Citation Index Expanded (Thomson Reuters - Web of Science), ATMOSPHERE.

**f) publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;**

1. Czibula Gabriela, Mihai Andrei, Crivei Liana Maria, SPRAR: A novel relational association rule mining classification model applied for academic performance prediction 1 10 2019 23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems Elsevier
2. Czibula Gabriela, Mihai Andrei, Teodorovici Daniel, Mihulet Eugen, Using self-organizing maps for unsupervised analysis of radar data for nowcasting purposes 1 10 2019 Proceedings of KES 2019 23rd International Conference on Knowledge-Based and Intelligent Information and Engineering Systems Elsevier
3. Crivei Liana Maria, Czibula Gabriela, Mihai Andrei, A study on applying relational association rule mining based classification for predicting the academic performance of students 1 12 2019 The 12th International Conference on Knowledge Science Engineering and Management (KSEM 2019) Springer
4. Mihai Andrei, Czibula Gabriela, Mihulet Eugen, Analyzing Meteorological Data Using Unsupervised Learning Techniques 1 8 2019 Proceedings of the 15th International conference on Intelligent Computer Communication and Processing ICCP IEEE Computer Society
5. Czibula Gabriela, Socaci Ioana, Mihai Andrei, Ionescu Vlad - Sebastian, XNow: A deep learning technique for nowcasting based on radar products' values prediction 117 122 2020 Proceedings of SACI 2020 IEEE 14th International Symposium on Applied Computational Intelligence and Informatics SACI 2020 IEEE Computer Society
6. Czibula Gabriela, Mihai Andrei, Czibula Istvan-Gergely, RadRAR: A relational association rule mining approach for nowcasting based on predicting radar products values 300 309 2020 Proceedings of 24nd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems KES 2020 Elsevier
7. Mihai Andrei, Using self-organizing maps as unsupervised learning models for meteorological data mining 23 28 2020 2020 IEEE 14th International Symposium on Applied Computational Intelligence and Informatics SACI 2020 IEEE Computer Society

**g) alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice.**

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