Feature selection, educational data mining, last 5 years:

* Science Direct, <https://www-sciencedirect-com.am.e-nformation.ro/>, Advanced search

Query: (“educational data mining” OR “edm”) AND (“feature selection” OR “variable selection” OR “attribute selection” OR “variable subset selection”)

Filters applied: 2018-2023

O imagine care conține text

Descriere generată automat

Rezultate = 187 -> filtrate manual la 30 (24 eliminand articolele din 2018 si 2019) (22 eliminand apoi articolele din 2020) (15 eliminand apoi articolele din 2021)

* IEEE Explore, <https://ieeexplore.ieee.org/>, Advanced Search

Query: ("All Metadata":"educational data mining" OR "All Metadata":"edm") AND ("All Metadata":"feature selection" OR "All Metadata":"variable selection" OR “All Metadata”:”attribute selection” OR “All Metadata”:”variable subset selection”)

Filters Applied: 2018-2023

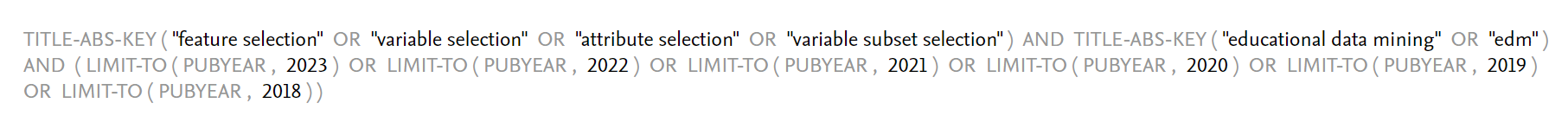
O imagine care conține text

Descriere generată automat

Rezultate = 32 -> filtrate manual la 20 (11 eliminand articolele din 2018 si 2019) (8 eliminand apoi articolele din 2020) (2 eliminand apoi articolele din 2021)

* Scopus, <https://www.scopus.com/home.uri>, Advanced search

Query: TITLE-ABS-KEY (“feature selection” OR “variable selection” OR “attribute selection” OR “variable subset selection”) AND TITLE-ABS-KEY (“educational data mining” OR “edm”) AND (LIMIT-TO(PUBYEAR, 2023) OR LIMIT-TO(PUBYEAR, 2022) OR LIMIT-TO(PUBYEAR, 2021) OR LIMIT-TO(PUBYEAR, 2020) OR LIMIT-TO(PUBYEAR, 2019) OR LIMIT-TO(PUBYEAR, 2018))



Rezultate = 139 -> filtrate manual la 25 (22 eliminand articolele din 2018 si 2019) (17 eliminand apoi articolele din 2020) (12 eliminand apoi articolele din 2021)

* Web Of Science, <https://www-webofscience-com.am.e-nformation.ro/>, Advanced search

Query: #4 OR #3 OR #2 OR #1

Refine By: Publication years: 2018 OR 2019 OR 2020 OR 2021 OR 2022 OR 2023

Where:

#1 Query: TI=((educational data mining OR edm) AND (feature selection OR variable selection OR attribute selection OR variable subset selection))

#2 Query: AB=((educational data mining OR edm) AND (feature selection OR variable selection OR attribute selection OR variable subset selection))

#3 Query: KP=((educational data mining OR edm) AND (feature selection OR variable selection OR attribute selection OR variable subset selection))

#4 Query: AK=((educational data mining OR edm) AND (feature selection OR variable selection OR attribute selection OR variable subset selection))

O imagine care conține text

Descriere generată automat

Rezultate = 143 -> filtrate manual la 11 (8 eliminand articolele din 2018 si 2019) (6 eliminand apoi articolele din 2020) (2 eliminand apoi articolele din 2021)

INITIAL

* Science Direct -> 187 articole
* IEEE Explore -> 32 articole
* Scopus -> 139 articole
* Web Of Science -> 143 articole

DUPA FILTRARE MANUALA

* Science Direct -> 30 articole
* IEEE Explore -> 20 articole
* Scopus -> 25 articole
* Web Of Science -> 11 articole

ELIMINAND ARTICOLELE DIN 2018 si 2019

* Science Direct -> 24 articole
* IEEE Explore -> 11 articole
* Scopus -> 22 articole
* Web Of Science -> 8 articole

ELIMINAND ARTICOLELE DIN 2020

* Science Direct -> 22 articole
* IEEE Explore -> 8 articole
* Scopus -> 17 articole
* Web Of Science -> 6 articole

ELIMINAND ARTICOLELE DIN 2021

* Science Direct -> 15 articole
* IEEE Explore -> 2 articole
* Scopus -> 12 articole
* Web Of Science -> 2 articole

DUPA INJUMATATIRE DUPA CITIRE ABSTRACT SI KEYWORDS

* Science Direct -> 8 articole
* IEEE Explore -> 1 articole
* Scopus -> 7 articole
* Web Of Science -> 2 articole

LISTA ARTICOLE INAINTE DE CITIRE INTEGRALA:

[1]

M. Kumar, C. Sharma, S. Sharma, N. Nidhi, and N. Islam, “Analysis of Feature Selection and Data Mining Techniques to Predict Student Academic Performance,” in *2022 International Conference on Decision Aid Sciences and Applications (DASA)*, Mar. 2022, pp. 1013–1017. doi: [10.1109/DASA54658.2022.9765236](https://doi.org/10.1109/DASA54658.2022.9765236).

[2]

A. Al-Zawqari, D. Peumans, and G. Vandersteen, “A flexible feature selection approach for predicting students’ academic performance in online courses,” *Computers and Education: Artificial Intelligence*, vol. 3, p. 100103, Jan. 2022, doi: [10.1016/j.caeai.2022.100103](https://doi.org/10.1016/j.caeai.2022.100103).

[3]

A. C. M. Yang, I. Y. L. Chen, B. Flanagan, and H. Ogata, “How students’ self-assessment behavior affects their online learning performance,” *Computers and Education: Artificial Intelligence*, vol. 3, p. 100058, Jan. 2022, doi: [10.1016/j.caeai.2022.100058](https://doi.org/10.1016/j.caeai.2022.100058).

[4]

S. Guzmán-Castillo *et al.*, “Implementation of a Predictive Information System for University Dropout Prevention,” *Procedia Computer Science*, vol. 198, pp. 566–571, Jan. 2022, doi: [10.1016/j.procs.2021.12.287](https://doi.org/10.1016/j.procs.2021.12.287).

[5]

H. Pallathadka, B. Sonia, D. T. Sanchez, J. V. De Vera, J. A. T. Godinez, and M. T. Pepito, “Investigating the impact of artificial intelligence in education sector by predicting student performance,” *Materials Today: Proceedings*, vol. 51, pp. 2264–2267, Jan. 2022, doi: [10.1016/j.matpr.2021.11.395](https://doi.org/10.1016/j.matpr.2021.11.395).

[6]

Y. Feldman-Maggor, R. Blonder, and I. Tuvi-Arad, “Let them choose: Optional assignments and online learning patterns as predictors of success in online general chemistry courses,” *The Internet and Higher Education*, vol. 55, p. 100867, Oct. 2022, doi: [10.1016/j.iheduc.2022.100867](https://doi.org/10.1016/j.iheduc.2022.100867).

[7]

J. Niyogisubizo, L. Liao, E. Nziyumva, E. Murwanashyaka, and P. C. Nshimyumukiza, “Predicting student’s dropout in university classes using two-layer ensemble machine learning approach: A novel stacked generalization,” *Computers and Education: Artificial Intelligence*, vol. 3, p. 100066, Jan. 2022, doi: [10.1016/j.caeai.2022.100066](https://doi.org/10.1016/j.caeai.2022.100066).

[8]

W. Rujuan and W. Lei, “Research on E-learning Behavior Evaluation of Students Based on Three-way Decisions Classification Algorithm,” *Procedia Computer Science*, vol. 208, pp. 367–373, Jan. 2022, doi: [10.1016/j.procs.2022.10.052](https://doi.org/10.1016/j.procs.2022.10.052).

[9]

L. S. Rodrigues, M. dos Santos, I. Costa, and M. A. L. Moreira, “Student Performance Prediction on Primary and Secondary Schools-A Systematic Literature Review,” *Procedia Computer Science*, vol. 214, pp. 680–687, Jan. 2022, doi: [10.1016/j.procs.2022.11.229](https://doi.org/10.1016/j.procs.2022.11.229).

[10]

S. Verma, R. K. Yadav, and K. Kholiya, “A Scalable Machine Learning-based Ensemble Approach to Enhance the Prediction Accuracy for Identifying Students at-Risk,” *International Journal of Advanced Computer Science and Applications*, vol. 13, no. 8, pp. 185–192, 2022, doi: [10.14569/IJACSA.2022.0130822](https://doi.org/10.14569/IJACSA.2022.0130822).

[11]

M. F. Yacoub, H. A. Maghawry, N. A. Helal, T. F. Gharib, and S. Ventura, “An Enhanced Predictive Approach for Students’ Performance,” *International Journal of Advanced Computer Science and Applications*, vol. 13, no. 4, pp. 879–883, 2022, doi: [10.14569/IJACSA.2022.01304101](https://doi.org/10.14569/IJACSA.2022.01304101).

[12]

S. Batool, J. Rashid, M. W. Nisar, J. Kim, H.-Y. Kwon, and A. Hussain, “Educational data mining to predict students’ academic performance: A survey study,” *Education and Information Technologies*, 2022, doi: [10.1007/s10639-022-11152-y](https://doi.org/10.1007/s10639-022-11152-y).

[13]

S. Begum and S. S. Padmannavar, “Prediction of Student Performance using Genetically Optimized Feature Selection with Multiclass Classification,” *International Journal of Engineering Trends and Technology*, vol. 70, no. 4, pp. 223–235, 2022, doi: [10.14445/22315381/IJETT-V70I4P219](https://doi.org/10.14445/22315381/IJETT-V70I4P219).

[14]

A. B. Urbina-Nájera and L. A. Méndez-Ortega, “Predictive Model for Taking Decision to Prevent University Dropout,” *International Journal of Interactive Multimedia and Artificial Intelligence*, vol. 7, no. 4, pp. 205–213, 2022, doi: [10.9781/ijimai.2022.01.006](https://doi.org/10.9781/ijimai.2022.01.006).

[15]

S. Begum and S. S. Padmannavar, “Student performance prediction with BPSO feature selection and CNN classifier,” *International Journal of Advanced and Applied Sciences*, vol. 9, no. 11, pp. 84–92, 2022, doi: [10.21833/ijaas.2022.11.010](https://doi.org/10.21833/ijaas.2022.11.010).

[16]

M. Q. Memon, Y. Lu, S. Yu, A. Memon, and A. R. Memon, “The Critical Feature Selection Approach using Ensemble Meta-Based Models to Predict Academic Performances,” *International Arab Journal of Information Technology*, vol. 19, no. Special Issue 3A, pp. 523–529, 2022, doi: [10.34028/iajit/19/3A/12](https://doi.org/10.34028/iajit/19/3A/12).

[17]

“Chicken Swarm-Based Feature Subset Selection with Optimal Machine Learning Enabled Data Mining Approach-Web of Science Core Collection.” <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000823686500001> (accessed Jan. 03, 2023).

[18]

“Feature Selection with Optimal Stacked Sparse Autoencoder for Data Mining-Web of Science Core Collection.” <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000779564300024> (accessed Jan. 03, 2023).

GREEN – CITITE SI SELECTATE

YELLOW – CITITE, NU TRATEAZA SUBIECTUL DESTUL DE IN DETALIU, PASTRATE CA BACKUP

RED – CITITE, PREA PUTINE DETALII DESPRE PROCESUL DE FEATURE SELECTION, ELIMINATE

WHITE – NECITITE, PASTRATE CA BACKUP

ART 1 BAZAT PE SISTEMUL EDUCATIONAL PORTUGHEZ, SCOLI; FEATURE SELECTION (WRAPPER METHODS)

ART 2 ONLINE LEARNING; DETAILED FEATURE SELECTION

ART 3 ONLINE; SELF ASSESMENT; SOME DETAILS ON FEATURE SELECTION

ART 4 COLUMBIA; FEATURE SELECTION (RANDOM FOREST)

ART 5 UNIVERSITATE ITALIANA; TOO FEW DETAILS ON FEATURE SELECTION

ART 6 UNIVERSITATE DIN ISRAEL; ONLINE; VARIABLE SELECTION USED IN DECISION TREE ALGORITHM

ART 7 SLOVAKIA; FEATURE SELECTION DETAILED

ART 8 SUPERSTAR PLATFORM; ALMOST NO DETAILS ON FEATURE SELECTION

ART 9 SOUTH KOREA; MIDDLE AND HIGH SCHOOL; DETAILED METHODOLOGY; ALMOST NO DETAILS ON FEATURE SELECTION

ART 10 INDIA; FEATURE SELECTION ENOUGH DETAILED

ART 11 FEATURE SELECTION (SELECTKBEST)

ART 12

ART 13

ART 14 VERY DETAILED FEATURE SELECTION

ART 15 PORTUGUESE; FEATURE SELECTION BSPO

ART 16 BEIJING; FEATURE SELECTION (FILTER AND WRAPPER METHODS) – VERY DETAILED

ART 17

ART 18

SELECTATE:

11 articole

* 1 articol IEEE Explore
* 5 articole Science Direct
* 5 articole Scopus

[1]

A. Al-Zawqari, D. Peumans, and G. Vandersteen, “A flexible feature selection approach for predicting students’ academic performance in online courses,” *Computers and Education: Artificial Intelligence*, vol. 3, p. 100103, Jan. 2022, doi: [10.1016/j.caeai.2022.100103](https://doi.org/10.1016/j.caeai.2022.100103).

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