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Miranda: A Chatbot for Supporting Self-regulated Learning

[Maldonado-Mahauad, Jorge^a](#) ;
 [Pérez-Sanagustín, Mar^b](#) ;
 [Carvalho-Vega, Juan^c](#) ;

[Narvaez, Edwin^a](#) ;
 [Calle, Mauricio^a](#)

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^a Department of Computer Science, University of Cuenca, Cuenca, Ecuador

^b IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France

^c Corporación Ecuatoriana para el Desarrollo de la Investigación y la Academia, Cuenca, Ecuador

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[Abstract](#)[Author keywords](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

Learning Analytics (LA) aims to understand and optimize the learning process in the environments in which they occur. It also offers opportunities for teachers to understand students' behavior and promote the use of effective strategies that allow them to achieve their goals. Most of current solutions proposed in the literature for supporting students' SRL are based on dashboards. However, if students do not interact with them, it becomes difficult to understand whether they have an impact in their

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self-regulated behavior. This demonstration, presents Miranda: A Chatbot that acts as a conversational agent to recommend and make suggestions on SRL strategies based on students' the behavior. The first version of Miranda has been developed for Moodle, but it could be adapted to any other Learning Management System. © 2022, The Author(s), under exclusive license to Springer Nature Switzerland AG.


Author keywords

Chatbot; Conversational agent; Learning Analytics; Recommender system; Self-regulated learning

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-
- 1 Azevedo, R., Cromley, J.G.
Does training on self-regulated learning facilitate students' learning with hypermedia?
(2004) Journal of Educational Psychology, 96 (3), pp. 523-535. Cited 509 times.
doi: 10.1037/0022-0663.96.3.523
[View at Publisher](#)

-
- 2 Broadbent, J., Poon, W.L.
Self-regulated learning strategies & academic achievement in online higher education learning environments: A systematic review
(2015) Internet and Higher Education, 27, art. no. 573, pp. 1-13. Cited 648 times.
doi: 10.1016/j.iheduc.2015.04.007
[View at Publisher](#)

-
- 3 Richardson, M., Abraham, C., Bond, R.
Psychological correlates of university students' academic performance: A systematic review and meta-analysis
[\(Open Access\)](#)
(2012) Psychological Bulletin, 138 (2), pp. 353-387. Cited 1702 times.
doi: 10.1037/a0026838
[View at Publisher](#)
-

- 4 Maldonado-Mahauad, J., Pérez-Sanagustín, M., Kizilcec, R.F., Morales, N., Munoz-Gama, J.
Mining theory-based patterns from Big data: Identifying self-regulated learning strategies in Massive Open Online Courses

(2018) *Computers in Human Behavior*, 80, pp. 179-196. Cited 162 times.
doi: 10.1016/j.chb.2017.11.011

View at Publisher
-
- 5 Pérez-Álvarez, R., Pérez-Sanagustín, M., Maldonado-Mahauad, J.J.
NoteMyProgress: Supporting learners' self-regulated strategies in MOOCs (Open Access)

(2017) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 10474 LNCS, pp. 517-520. Cited 12 times.
<http://springerlink.com/content/0302-9743/copyright/2005/>
ISBN: 978-331966609-9
doi: 10.1007/978-3-319-66610-5_53

View at Publisher
-
- 6 Matcha, W., Uzir, N.A., Gasevic, D., Pardo, A.
A Systematic Review of Empirical Studies on Learning Analytics Dashboards: A Self-Regulated Learning Perspective

(2020) *IEEE Transactions on Learning Technologies*, 13 (2), art. no. 8713912, pp. 226-245. Cited 100 times.
<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4620076>
doi: 10.1109/TLT.2019.2916802

View at Publisher
-
- 7 Shawar, B.A., Atwell, E.
Chatbots: Are they really useful?
(2007) *Ldv Forum*, Pp. 29-49. Cited 259 times.
-
- 8 Souali, K., Rahmaoui, O., Ouzzif, M., El Haddioui, I.
Recommending moodle resources using chatbots

(2019) *Proceedings - 15th International Conference on Signal Image Technology and Internet Based Systems, SISITS 2019*, art. no. 9067936, pp. 677-680. Cited 5 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9052528>
ISBN: 978-172815686-6
doi: 10.1109/SITIS.2019.00110

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-
- 9 Ayanouz, S., Abdelhakim, B.A., Benhmed, M.
A Smart Chatbot Architecture based NLP and Machine Learning for Health Care Assistance

(2020) *ACM International Conference Proceeding Series*. Cited 16 times.
<http://portal.acm.org/>
ISBN: 978-145037634-1
doi: 10.1145/3386723.3387897

View at Publisher
-

□ 10 Pérez, J.Q., Daradoumis, T., Puig, J.M.M.
Rediscovering the use of chatbots in education: A systematic literature review

(2020) *Computer Applications in Engineering Education*, 28 (6), pp. 1549-1565. Cited 50 times.
[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-0542](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-0542)
doi: 10.1002/cae.22326

View at Publisher

□ 11 Zhang, R., Liu, Q., Hu, R., Ma, H., Yuan, Y.
Collaborative filtering: user similarity in Slope One algorithm

(2014) *Journal of Computational Information Systems*, 10 (24), pp. 10413-10422. Cited 4 times.
<http://jof-cis.com/all-volume-issues/>
doi: 10.12733/jcis12358

View at Publisher

□ 12 Garrison, D.R., Anderson, T., Archer, W.
Critical thinking, cognitive presence, and computer conferencing in distance education
(2001) *Am. J. Distance Educ.*, 15, pp. 7-23. Cited 1422 times.

□ 13 Garrison, D.R.: Communities of inquiry in online learning, pp. 352–355.
<https://doi.org/10.4018/978-1-60566-198-8.CH052>, <https://services.igi-global.com/resolvedoi/resolve.aspx?doi=10.4018/978-1-60566-198-8.ch052>

👤 Maldonado-Mahauad, J.; Department of Computer Science, University of Cuenca, Cuenca, Ecuador; email:jorge.maldonado@ucuenca.edu.ec

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