

The 3rd LAK data competition

Citation for published version (APA):

Drachler, H., Dietze, S., Herder, E., d'Aquin, M., Taibi, D., & Scheffel, M. (2015). The 3rd LAK data competition. In *LAK'15 Proceedings of the Fifth International Conference on Learning Analytics And Knowledge* (pp. 396-397). Association for Computing Machinery (ACM). <https://doi.org/10.1145/2723576.2723641>

DOI:

[10.1145/2723576.2723641](https://doi.org/10.1145/2723576.2723641)

Document status and date:

Published: 01/01/2015

Document Version:

Early version, also known as pre-print

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

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The challenge submissions should exploit the extended LAK 2014 dataset for meaningful purposes. This includes submissions which cover one or more of the following, non-exclusive list of topics.

- What are the main differences between the EDM and LAK community over time?
- What are new and emerging topics?
- Do different visualisations of the data lead to different insights?
- How can the LAK dataset be used to point to related research efforts in other scientific disciplines such as educational science, ethics and legal aspects but also new technologies?
- Which of the articles in the data provide evidence for positive or negative effects of learning analytics research on the educational practices?

2. The LAK Dataset

The LAK Dataset has been extracted to create a structured corpus including full text, references, and metadata including authors, affiliations, titles, keywords and abstracts. The schema used to describe the papers in the dataset is based on two established schemas: the Semantic Web Conference Ontology (already used to describe metadata about publications from the Semantic Web conferences and related events) and the Linked Education schema. The data is accessible under <http://lak.linkededucation.org>.

Throughout the past year and following on the LAK Data Challenge 2014, the dataset has been improved and expanded as a joint effort by SoLAR, ITD-CNR⁵, and the LinkedUp project. Latest publications from the LAK2014 and EDM2014 conferences were added, enriching content and keywords with references to DBpedia and including the actual references of each publication. The current version of the LAK datasets consists of:

- Proceedings of the ACM International Conference on Learning Analytics and Knowledge (LAK) (2011-14)
- Proceedings of the previous editions of the LAK Data Challenge (2013-14)
- Proceedings of the International Conference on Educational Data Mining (2008-14)
- The open access journal Educational Technology & Society recently published a 2012 special issue on “Learning and Knowledge Analytics”: *Educational Technology & Society* - Special Issue on Learning & Knowledge Analytics.
- Journal of Educational Data Mining (2009-14)
- Journal of Learning Analytics (2014)

3. Workshop Organization

3.1 Workshop Facilitators

The workshop is organized jointly by SoLAR, the LACE project and associated partner CNR-ITD. In addition the special interest groups Linked Education (<http://linkededucation.org>) and SIG dataTEL (<http://ea-tel.eu/sig-datatel/>) of EATEL will support the competition. All partners aim at advancing data-driven research in education. The main goals are to foster the cooperation between different Learning Analytics research units and to offer reference datasets for data-driven research.

The partners can look back on an annual workshop series at different conferences, including:

- Linked Learning 2014 – 4th International Workshop on

Learning and Education with the Web of Data (LILE2014) at ISWC2014, Riva del Garda, Italy.

- RecSysTEL 2014, 5th International Workshop on Recommender Systems for Technology Enhanced Learning (RecSysTEL14) at ICALT 2014, Athens, Greece.
- Linked Learning 2013 – 3rd International Workshop on Learning and Education with the Web of Data (LILE2013) at WWW 2013, Rio de Janeiro, Brazil.
- Learning Analytics and Linked Data (LADA12) at 2nd at LAK12, Vancouver, Canada.
- Linked Learning 2012 - 2nd International Workshop on Learning and Education with the Web of Data (LILE2012) at WWW2012, Lyon, France.

3.2 Evaluation of submissions

The submissions will be reviewed by members of the challenge committee to pre-select submissions for presentation. The accepted submissions will be published in online proceedings and presented during an interactive session at the LAK 2015 conference. During the LAK conference and based on the presentations, the challenge winners are identified according to the LinkedUp Evaluation Framework [9]. Finally, the best three submissions will be presented in a panel at the main stage of the conference and receive an award by SoLAR.

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⁵ www.itd.cnr.it/