

# Further Reading

The Learning Analytics team - NPULS

## **Een Multidisciplinaire Aanpak voor de Implementatie van Learning Analytics**

De succesvolle implementatie van Leeranalyse is een bewijs van de samenwerkingsinspanning van diverse rollen en expertise. Naarmate we dieper ingaan op het proces, convergeren de rollen naar een meer technische en nauwgezette aard.

Het landschap van implementaties van Leeranalyse is uitgestrekt en gevarieerd, maar de uniciteit van de specifieke behoeften van een organisatie wordt vaak overdreven. Een grondige evaluatie van bestaande literatuur kan het proces stroomlijnen, waardoor de onnodige complexiteit van het beginnen vanaf nul wordt vermeden. Dit document fungeert als een zeef, waarbij een overvloed aan onderzoek wordt gedistilleerd tot samenhangende thema's die obstakels en facilitators aanwijzen. Door deze nauwgezette filtratie hebben we de literatuur met 90% gereduceerd, waardoor een dichtere, inzichtelijkere verzameling overblijft voor een versnelde ontdekking.

De geëvalueerde thema's zijn:

- Juridische en ethische kwesties
- Culturele verandering
- Technische details
- Leertheorie en de relatie tot Leeranalyse
- Geletterdheid/Training
- Raamwerken die de implementatie van Leeranalyse ondersteunen

## **A Multidisciplinary Approach to Implementing Learning Analytics**

The successful deployment of Learning Analytics is a testament to the collaborative effort of diverse roles and expertise. As we delve deeper into the process, the roles converge towards a more technical and meticulous nature.

The landscape of Learning Analytics deployments is vast and varied, yet the uniqueness of an organization's specific needs is often overstated. A thorough review of existing literature can streamline the process, circumventing the needless complexity of starting from scratch. This document serves as a sieve, distilling a plethora of research into coherent themes that pinpoint obstacles and enablers. Through this meticulous filtration, we've distilled the literature by 90%, curating a denser, more insightful collection for expedited discovery.

The themes evaluated are:

- Legal & Ethical issues
- Cultural change
- Technical details
- Learning Theory and it's relationship to Learning Analytics
- Literacy/Training
- Frameworks that support deploying Learning Analytics

## Legal & Ethical

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Title	Link
Student privacy self-management: implications for learning analytics	<a href="https://doi.org/10.1145/2723576.2723585">https://doi.org/10.1145/2723576.2723585</a>
Developing a Code of Practice for Using Data in Wellbeing Support	<a href="https://doi.org/10.18608/jla.2022.7533">https://doi.org/10.18608/jla.2022.7533</a>
Student centred design of a learning analytics system	<a href="https://doi.org/10.1145/3303772.3303797">https://doi.org/10.1145/3303772.3303797</a>
Empowering learners with personalised learning approaches? Agency equity and transparency in the context of learning analytics”	<a href="https://doi.org/10.1080/02602938.2019.1676396">https://doi.org/10.1080/02602938.2019.1676396</a>
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An exploratory latent class analysis of student expectations towards learning analytics services	<a href="https://doi.org/10.1016/j.iheduc.2021.100818">https://doi.org/10.1016/j.iheduc.2021.100818</a>
Post-GDPR Usage of Students’ Big-Data at UK Universities	<a href="https://doi.org/10.1007/978-3-030-71292-1_15">https://doi.org/10.1007/978-3-030-71292-1_15</a>
Working together in learning analytics towards the co-creation of value	<a href="https://doi.org/10.18608/jla.2019.62.2">https://doi.org/10.18608/jla.2019.62.2</a>
Ethical issues and learning analytics: Are academic library practitioners prepared?	<a href="https://doi.org/10.1016/j.acalib.2022.102621">https://doi.org/10.1016/j.acalib.2022.102621</a>
Educational triage in open distance learning: Walking a moral tightrope	<a href="https://doi.org/10.19173/irrodl.v15i4.1881">https://doi.org/10.19173/irrodl.v15i4.1881</a>
Data privacy on the African continent: Opportunities challenges and implications for learning analytics”	<a href="https://doi.org/10.1111/bjet.13226">https://doi.org/10.1111/bjet.13226</a>
Disparities in Students’ Propensity to Consent to Learning Analytics	<a href="https://doi.org/10.1007/s40593-021-00254-2">https://doi.org/10.1007/s40593-021-00254-2</a>
Affordances and limitations of learning analytics for computer-assisted language learning: a case study of the VITAL project	<a href="https://doi.org/10.1080/09588221.2017.1418382">https://doi.org/10.1080/09588221.2017.1418382</a>
Big data analytics model for the education sector	<a href="https://doi.org/10.35940/ijitee.L2834.1081219">https://doi.org/10.35940/ijitee.L2834.1081219</a>
Learning analytics and higher education: a proposed model for establishing informed consent mechanisms to promote student privacy and autonomy	<a href="https://doi.org/10.1186/s41239-019-0155-0">https://doi.org/10.1186/s41239-019-0155-0</a>
A review of learning analytics intervention in higher education (2011 - 2018)	<a href="https://doi.org/10.1007/s40692-019-00143-7">https://doi.org/10.1007/s40692-019-00143-7</a>

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Factors Affecting the Deployment of Learning Analytics in Developing Countries: Case of Egypt	<a href="https://doi.org/10.3991/ijet.v17i03.24405">https://doi.org/10.3991/ijet.v17i03.24405</a>
Student Privacy and Learning Analytics: Investigating the Application of Privacy Within a Student Success Information System in Higher Education	<a href="https://doi.org/10.18608/jla.2023.7975">https://doi.org/10.18608/jla.2023.7975</a>
Learning analytics in support of inclusiveness and disabled students: a systematic review	<a href="https://doi.org/10.1007/s12528-023-09363-4">https://doi.org/10.1007/s12528-023-09363-4</a>
Learning analytics in higher education: a preponderance of analytics but very little learning?	<a href="https://doi.org/10.1186/s41239-021-00258-x">https://doi.org/10.1186/s41239-021-00258-x</a>
Learning Analytics and Fairness: Do Existing Algorithms Serve Everyone Equally?	<a href="https://doi.org/10.1007/978-3-030-78270-2_12">https://doi.org/10.1007/978-3-030-78270-2_12</a>

## Cultural

Total: 27

Title	Link
Students' expectations of Learning Analytics across Europe	<a href="https://doi.org/10.1111/jcal.12802">https://doi.org/10.1111/jcal.12802</a>
Advising the whole student: eAdvising analytics and the contextual suppression of advisor values	<a href="https://doi.org/10.1007/s10639-018-9781-8">https://doi.org/10.1007/s10639-018-9781-8</a>
Learning Analytics: Pathways to Impact	<a href="https://doi.org/10.14742/AJET.6853">https://doi.org/10.14742/AJET.6853</a>
Using LMS Log Data to Explore Student Engagement with Coursework Videos	<a href="https://doi.org/10.24059/olj.v26i4.2998">https://doi.org/10.24059/olj.v26i4.2998</a>
Amplifying Student and Administrator Perspectives on Equity and Bias in Learning Analytics: Alone Together in Higher Education	<a href="https://doi.org/10.18608/jla.2023.7775">https://doi.org/10.18608/jla.2023.7775</a>
Student centred design of a learning analytics system	<a href="https://doi.org/10.1145/3303772.3303793">https://doi.org/10.1145/3303772.3303793</a>
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Prerequisites for artificial intelligence in further education: identification of drivers barriers and business models of educational technology companies"	<a href="https://doi.org/10.1186/s41239-020-00193-3">https://doi.org/10.1186/s41239-020-00193-3</a>
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Learning analytics in higher education: an analysis of case studies	<a href="https://doi.org/10.1108/AAOUJ-01-2017-0009">https://doi.org/10.1108/AAOUJ-01-2017-0009</a>

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Learning analytics should not promote one size fits all: The effects of instructional conditions in predicting academic success	<a href="https://doi.org/10.1016/j.iheduc.2015.10.002">https://doi.org/10.1016/j.iheduc.2015.10.002</a>
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Rethinking learning analytics adoption through complexity leadership theory	<a href="https://doi.org/10.1145/3170358.3170375">https://doi.org/10.1145/3170358.3170375</a>
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Being more human: rooting learning analytics through resistance and reconnection with the values of higher education	<a href="https://doi.org/10.1080/07294360.2019.1677569">https://doi.org/10.1080/07294360.2019.1677569</a>
Learning analytics as data ecology: a tentative proposal	<a href="https://doi.org/10.1007/s12528-023-09355-4">https://doi.org/10.1007/s12528-023-09355-4</a>

## Technical

Total: 21

Title	Link
Examining Techniques to Solving Imbalanced Datasets in Educational Data Mining Systems	<a href="https://doi.org/10.47839/ijc.21.2.2589">https://doi.org/10.47839/ijc.21.2.2589</a>
ADA: A System for Automating the Learning Data Analytics Processing Life Cycle	<a href="https://doi.org/10.1007/978-3-030-29736-7_73">https://doi.org/10.1007/978-3-030-29736-7_73</a>
Learning analytics dashboards are increasingly becoming about learning and not just analytics - A systematic review	<a href="https://doi.org/10.1007/s10639-023-12401-4">https://doi.org/10.1007/s10639-023-12401-4</a>
Visualizations of user data in a social media enhanced web-based environment in higher education	<a href="https://doi.org/10.3991/ijet.v8iS2.2740">https://doi.org/10.3991/ijet.v8iS2.2740</a>
A Study on the Application of Big Data to the Korean College Education System	<a href="https://doi.org/10.1016/j.procs.2016.07.096">https://doi.org/10.1016/j.procs.2016.07.096</a>
Google BigQuery for education: Framework for parsing and analyzing edX MOOC data	<a href="https://doi.org/10.1145/3051457.3053980">https://doi.org/10.1145/3051457.3053980</a>
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Bringing Synchrony and Clarity to Complex Multi-Channel Data: A Learning Analytics Study in Programming Education	<a href="https://doi.org/10.1109/ACCESS.2021.3134844">https://doi.org/10.1109/ACCESS.2021.3134844</a>
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Integrating multiple data sources for learning analytics - a review of literature	<a href="https://doi.org/10.1186/s41039-019-0105-4">https://doi.org/10.1186/s41039-019-0105-4</a>
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Learning analytics in higher education: a preponderance of analytics but very little learning?	<a href="https://doi.org/10.1186/s41239-021-00258-x">https://doi.org/10.1186/s41239-021-00258-x</a>

## Learning Theory

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Title	Link
Opportunities and challenges in using learning analytics in learning design	<a href="https://doi.org/10.1007/978-3-319-66610-5_16">https://doi.org/10.1007/978-3-319-66610-5_16</a>
Learning Analytics in Supporting Student Agency: A Systematic Review	<a href="https://doi.org/10.3390/su151813662">https://doi.org/10.3390/su151813662</a>
Awareness is not enough: Pitfalls of learning analytics dashboards in the educational practice	<a href="https://doi.org/10.1007/978-3-319-66610-5_7">https://doi.org/10.1007/978-3-319-66610-5_7</a>
Social learning analytics: Five approaches	<a href="https://doi.org/10.1145/2330601.2330616">https://doi.org/10.1145/2330601.2330616</a>
Unravelling the dynamics of instructional practice: A longitudinal study on learning design and vle activities	<a href="https://doi.org/10.1145/3027385.3027409">https://doi.org/10.1145/3027385.3027409</a>
A mixed-method study of how instructors design for learning in online and distance education	<a href="https://doi.org/10.18608/JLA.2020.73.6">https://doi.org/10.18608/JLA.2020.73.6</a>
Measures of engagement in the first three weeks of higher education predict subsequent activity and attainment in first year undergraduate students: a UK case study	<a href="https://doi.org/10.1080/02602938.2020.1822282">https://doi.org/10.1080/02602938.2020.1822282</a>
Using virtual learning environment data for the development of institutional educational policies	<a href="https://doi.org/10.3390/app11156811">https://doi.org/10.3390/app11156811</a>
Student centred design of a learning analytics system	<a href="https://doi.org/10.1145/3303772.3303796">https://doi.org/10.1145/3303772.3303796</a>
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Making a #Stepchange? Investigating the Alignment of Learning Analytics and Student Wellbeing in United Kingdom Higher Education Institutions	<a href="https://doi.org/10.3389/feduc.2020.531424">https://doi.org/10.3389/feduc.2020.531424</a>
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## Literacy/Training

Total: 15

<b>Title</b>	<b>Link</b>
Learning analytics: state of the art	<a href="https://doi.org/10.1007/s12008-022-00930-0">https://doi.org/10.1007/s12008-022-00930-0</a>
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Transparency and Trustworthiness in User Intentions to Follow Career Recommendations from a Learning Analytics Tool	<a href="https://doi.org/10.18608/jla.2023.7791">https://doi.org/10.18608/jla.2023.7791</a>
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## Framework

Total: 12

<b>Title</b>	<b>Link</b>
A checklist to guide the planning designing implementation and evaluation of learning analytics dashboards”	<a href="https://doi.org/10.1186/s41239-023-00394-6">https://doi.org/10.1186/s41239-023-00394-6</a>
Adopting Learning Analytics to Inform Postgraduate Curriculum Design: Recommendations and Research Agenda	<a href="https://doi.org/10.1007/s10796-021-10183-z">https://doi.org/10.1007/s10796-021-10183-z</a>
Features students really expect from learning analytics	<a href="https://doi.org/10.1016/j.chb.2017.06.030">https://doi.org/10.1016/j.chb.2017.06.030</a>
DISCOVERING INSIGHTS IN LEARNING ANALYTICS THROUGH A MIXED-METHODS FRAMEWORK: APPLICATION TO COMPUTER PROGRAMMING EDUCATION	<a href="https://doi.org/10.28945/5182">https://doi.org/10.28945/5182</a>
The privacy paradox and its implications for learning analytics	<a href="https://doi.org/10.1145/3375462.3375536">https://doi.org/10.1145/3375462.3375536</a>
An exploratory latent class analysis of student expectations towards learning analytics services	<a href="https://doi.org/10.1016/j.iheduc.2021.100818">https://doi.org/10.1016/j.iheduc.2021.100818</a>
Supporting Learning Analytics Adoption: Evaluating the Learning Analytics Capability Model in a Real-World Setting	<a href="https://doi.org/10.3390/app13053236">https://doi.org/10.3390/app13053236</a>
Policy Matters: Expert Recommendations for Learning Analytics Policy	<a href="https://doi.org/10.1007/978-3-030-29736-7_38">https://doi.org/10.1007/978-3-030-29736-7_38</a>
Buried treasure or Ill-gotten spoils: the ethics of data mining and learning analytics in online instruction	<a href="https://doi.org/10.1007/s11423-020-09841-x">https://doi.org/10.1007/s11423-020-09841-x</a>
Critical success factors for implementing learning analytics in higher education: A mixed-method inquiry	<a href="https://doi.org/10.14742/AJET.6164">https://doi.org/10.14742/AJET.6164</a>
Factors Affecting the Deployment of Learning Analytics in Developing Countries: Case of Egypt	<a href="https://doi.org/10.3991/ijet.v17i03.24405">https://doi.org/10.3991/ijet.v17i03.24405</a>
Learning analytics as data ecology: a tentative proposal	<a href="https://doi.org/10.1007/s12528-023-09355-4">https://doi.org/10.1007/s12528-023-09355-4</a>