Learning Analytics is a process to analyze the learners which improves the educational performance. Learning Analytics also helps the higher educational institutions to improve the educational practices and techniques. This paper provides a detailed survey of the current research activities conducted in the education system. The review of Learning Analytics is based on some of existing Learning Analytics applications, purpose of the Learning Analytics in the education system and the type of students. The review based on various tools, techniques and data collection methods used to implement the Learning analytics is discussed in this paper.
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Analysis on Students' Performance using Neuro-Fuzzy®, symposium on information technology, vol 3, pages 1-7, 2008
- Israel Gutiérrez Rojas, Raquel M. Crespo García, "Towards efficient provision of feedback supported by learning analytics®", ICALT, pages 599-603, 2012
- Gregorio Robles, Jesus M Gonzalez Barahona, "Mining student repositories to gain learning analytics – An Experience report®", EDUCON, pages 1249-1254, 2013
- Yohannes Kurniawan Erwin Halim, "Use Data Warehouse and Data Mining to Predict Student Academic Performance in Schools: A Case Study (Perspective Application and Benefits)®, TALE, pages 98-103, 2013
- Naif Radi Aljohani Hugh C. Davis, "Learning Analytics and Formative Assessment to Provide Immediate Detailed Feedback Using a Student Centered Mobile Dashboard®", NGMAST, pages 262-267, 2013
- Kannan Govindarajan, Thamarai Selvi Somasundaram, Vivekanandan S Kumar, Kinshuk, "Continuous Clustering in Big Data Learning Analytics®", ICT4E(Technology for Education), pages 61-64, 2013
- Juan Cruz-Benito, Roberto Therón, Francisco J. García-Peñalvo Cristina Maderuelo, Jonás Samuel Pérez-Blanco, "Monitoring and feedback of Learning Processes in Virtual Worlds through analytics architectures: a real case®", CISTI, pages 1-6, 2014
Survey of Learning Analytics based on Purpose and Techniques for Improving Student Performance

- Carlotta Schatten, Martin Wistuba, Lars Schmidt-Thieme Sergio Gutierrez-Santos, "Minimal Invasive Integration of Learning Analytics Services in Intelligent Tutoring Systems," ICALT, pages 746-748, 2014
- Sandra Gama, Daniel Goncalves, "Visualizing Large Quantities of Educational Data mining," International Conference in Information Visualization (ICIV), pages 102-107, 2014

Index Terms

Computer Science

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Keywords

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