

# EduTool®: A tool for evaluating and accrediting the quality of moocs [EduTool®: Un instrumento para la evaluación y acreditación de la calidad de los moocs]

Ramírez-Fernández M.B.

Silvera J.L.S.

This research analyzes the regulatory quality of MOOCs (Massive Open Online Courses) through the instrument EduTool®, trademark of the Spanish Patent and Trademark Office (3,087,298, at the present time). It arises from a line of research at the University Pablo de Olavide (Seville) and developed at the Laboratory for Computational Intelligence (LCI). EduTool® is developed under the auspices of the UNE 66181 standard, while at the LCI, the significance of the sub-factors for each of the dimensions (recognition of training, learning methodology and levels of accessibility) of this standard for Quality Management of Virtual Training for MOOC have been analyzed using fuzzy logic. In this sense, aggregation of the linguistic variables of 10 experts was performed using the probabilistic OR function and they were defuzzified using the centroid method to calculate these weights. To measure the quality of the courses, we proceeded to find and select relevant MOOC platforms: Udacity, EDX, MiríadaX and Coursera. Subsequently, the most relevant MOOCs related to computers and computer science categories were selected by intentional non-probability sampling. For this data collection method, two engineers accessed these MOOC platforms to code and assessing the quality of these courses using EduTool®. In general, the analytical and graphic results show that the quality of the average MOOCs analyzed in each platform is located above the score that describes the required minimum (50 %). In this sense, a higher average quality was appreciated in Coursera (66.34 %) and EDX platform (62.62 %), intermediate in the Udacity platform (54.92 %) and somewhat lower in the MiríadaX platform (50.40 %). © 2015, Universidad Nacional de Educacion a Distancia. All rights reserved.

Educational assessment

Educational Quality

MOOC

Training