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ICIC Express Letters • Volume 13, Issue 3, Pages 247 - 253 • 2019

Document type

Article

Source type

Journal

ISSN

1881803X

DOI

10.24507/ijicel.13.03.247

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Self-diagnostic using fuzzy logic for teaching learning quality improvement in universities

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Abstract

In the millennial era, Internet and artificial intelligence (AI) are used in modern education, and lecturers should have great responsibility and skills in educating students. Self-diagnostics of teaching can range from personal reflection to formal assessment intended for specific purposes. This paper proposes a novel application of self-diagnostics using fuzzy logic for teaching-learning quality

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improvement for lecturers, so lecturers recognize the weaknesses and advantages of teaching ability. We use 6 variables as input that consists of openness, clear and understandably, enthusiastic, teaching methods, feedback and commitment for evaluating his performance. The results show that our proposed method is able to evaluate the level of quality of teaching-learning with some suggestions for improvement of the lecturers. Based on the evaluation of exam and quiz after lecturer improves his/her capability in teaching, there is improvement of score 20% for exam and 30% for quiz compared with previous evaluation. © 2019, ICIC International. All rights reserved.


Author keywords

AI; Education; Fuzzy logic; Lecturer; Self-diagnostics

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