



Aprendizaje de espacios vectoriales mediante la operación interna definida en C++ [

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text (article)

Analítica

Students have difficulty understanding the proof of a vector space. The objective of this research is to compare three methods that includes lectures, master classes with C ++ and Matlab through academic performance. To evaluate the impact of this work, research groups were established, one control and the other experimental. The experimental received the classes with the code in C ++ for the demonstration of the properties of the inner product and the control received the classes with and without the code created with Matlab. Evaluations were applied to both groups and through the DCA experimental design it was demonstrated that the best method to teach vector spaces is the one that includes lectures and C ++ code. However, despite the positive impact of this research, there are still challenges to be solved, one of them is to determine which is the appropriate software for teaching eigenvalues

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