Simulation of suicide tendency by using machine learning (Conference Paper)

- [Calderon-Vilca, H.D. Email Author](#),
- [Wun-Rafael, W.I. Email Author](#),
- [Miranda-Loarte, R. Email Author](#)
- Department of Computer Science, School of Engineering, Universidad Peruana de Ciencias Aplicadas, Lima, Peru

Abstract [View references \(15\)](#)

Suicide is one of the most distinguished causes of death on the news worldwide. There are several factors and variables that can lead a person to commit this act, for example, stress, self-esteem, depression, among others. The causes and profiles of suicide cases are not revealed in detail by the competent institutions. We propose a simulation with a systematically generated dataset; such data reflect the adolescent population with suicidal tendency in Peru. We will evaluate three algorithms of supervised machine learning as a result of the algorithm C4.5 which is based on the trees to classify in a better way the suicidal tendency of adolescents. We finally propose a desktop tool that determines the suicidal tendency level of the adolescent. © 2017 IEEE.

Author keywords

classification machine learning prevention suicides suicide attempt suicide risk Suicide tendency

Indexed keywords

Engineering controlled terms:	Classification (of information) Learning systems Population statistics Supervised learning Trees (mathematics)
Engineering uncontrolled terms	Causes of death prevention Self esteem suicides suicide attempt Suicide tendency Supervised machine learning
Engineering main heading:	Artificial intelligence

- **ISSN:** 15224902
- **ISBN:** 978-153863483-7
- **Source Type:** Conference Proceeding

- **Original language:** Spanish **DOI:** 10.1109/SCCC.2017.8405128
- **Document Type:** Conference Paper
- **Publisher:** IEEE Computer Society