

Artificial Intelligence: Technology Applied on Criminal Justice

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Abstract

The advancements of computer science and its related fields are making our tasks easier in almost every scientific and non-scientific field. The use of machine learning in the field of drug discovery and development is accelerating so fast and helping us to discover anti-viral drugs for devastating viruses like coronavirus. The author will discuss using a deep reinforcement learning model 'ORGAN' which is a modified version of Generative Adversarial Network for predicting the potential anti-viral of coronavirus. The author used the deep reinforcement learning model (ORGAN) to generate potential candidates' drugs, with a Δ of 0.2 and epochs of 240 and a sample set of 6400, 10 good sample SMILES were generated and the Solubility or LogP of these samples is 0.7098. Then using the coronavirus as a target, all the good samples of SMILES were bounded and the drug with the highest binding affinity (Most negative value) is C18H15CIN4O2 also known as Olutasidenib which can be the potential anti-viral drug of coronavirus..

Biography:

Selma Blum is a forensic psychologist, founder of a technology start-up in Brazil, Spain and Israel known as Incube. She also has several years of experience in technology applied on security enforcement, behavior analysis, criminal profiling, artificial intelligence and Aviation Security. She also performs external collaborations and consulting on several law enforcement units like Brazilian Civil Police, Interpol, Spanish Ministry of Interior and Guardia Civil. Selma is worldwide known as a lecturer in several congresses, security events, universities and airports. Mrs. Blum also published several articles regarding the importance of technology for law enforcement excellence. She is also well recognized as an intelligence instructor, having been training international airports staff on different aspects of behavior science. For her, there is no security without technology anymore. The integration between agents and systems is one of the most important resources public safety can rely on to deal with criminality properly. To reach high standards of quality, it is also mandatory

investments on training, infrastructure, research and knowledge exchange.

Recent Publications:

1. Blum, Selma. (2020). Last version of Article Technology Applied on behaviour detection.
2. Blum, Selma. (2020). Final version for the magazine Behaviour Detection Technology: screening on the go. Air and Space Law. April.
3. Blum, Selma. (2020). A17C5CF1-8122-4717-AA30-28513EE136DB.
4. Blum, Selma. (2020). D15B7946-AEF0-4B51-9F55-D47973DD25FD.