

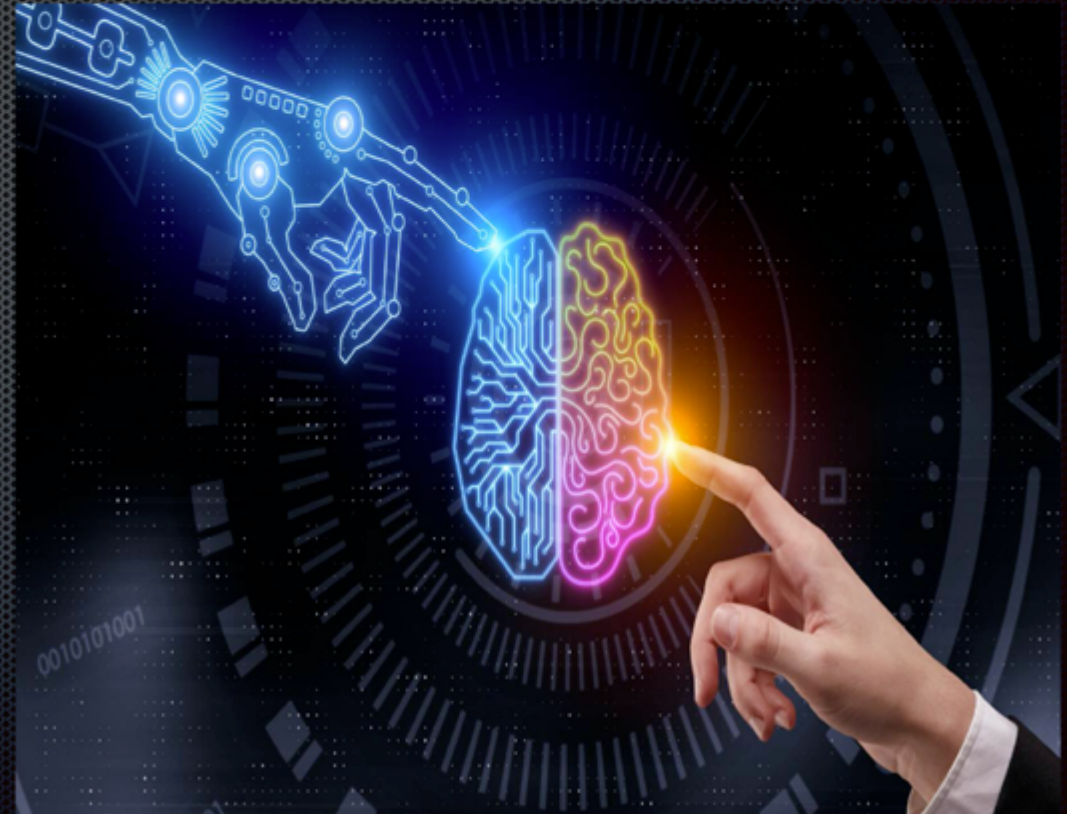
A decorative border on the left side of the slide. It features a grid of icons: scales of justice, a judge's gavel, and a computer monitor. Below these is a central graphic with the letters 'Ai' in a stylized font, surrounded by glowing blue and purple lines. At the bottom are more icons, including a classical column and a shield.

ARTIFICIAL INTELLIGENCE Implementation in the Crime Prevention, Investigation and Punishment

Associate Professor, Dr. Mariana Todorova, futurist

THREE TYPES OF AI

- Artificial Narrow Intelligence
- Artificial General Intelligence
- Artificial Super Intelligence



KEY TRENDS IN AI SUPPORTED CRIME PREVENTION, INVESTIGATION AND PUNISHMENT



Current Application of AI in Crime Prevention and Detection

- Gunfire Detection – (*ShotSpotter*)
- Bomb Detection



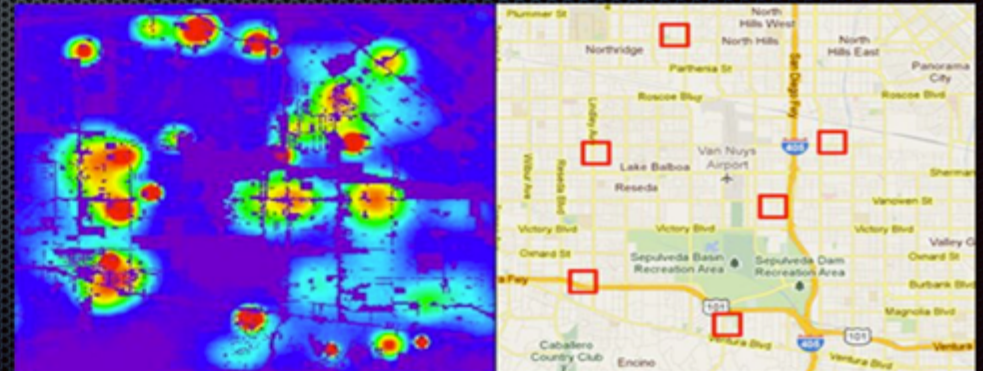
- Camera for (Hikvision): Facial Recognition, license plates on cars scanning, detecting suspicious anomalies in crowded venues
- Biases Risks



Predicting Future Crime Spots, Dangerous People and Terrorists

➤ Predicting Future Crime Spots – *Predpol*

- Environment – malls, markets, stations, airports
- Characteristics- repeat victimization
- New repeat victimization- neighbors, local targets, etc.



- Predict if an individual will commit a crime before it happens

(Cloud Walk)

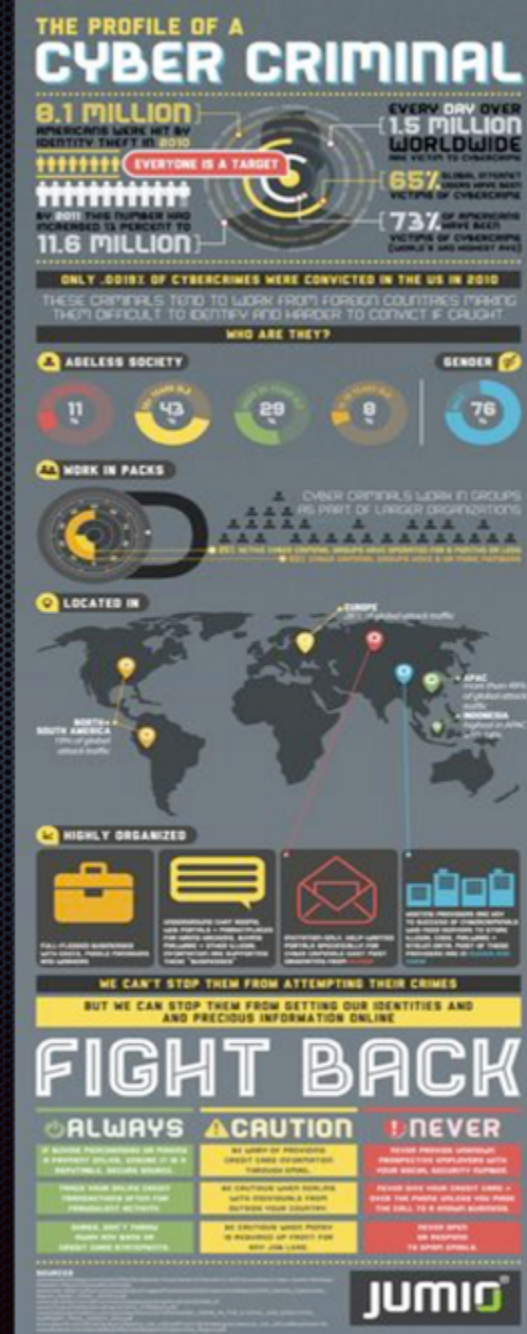


- Risk assessment algorithms for over a decade to make decisions about pretrial release (COMPAS)



AI and Cybersecurity

- Content transferring (words related to a crime/ terrorism)
- Data gathering and Data protection
- Threat hunting
- Vulnerability management (analyse baseline behaviour of user accounts, endpoint and servers, and identify anomalous behaviour)
- AI could make cyberattacks more dangerous and more difficult to spot (automated malware, ransomware, social engineering or phishing attacks)



- Detecting human/women/children trafficking/ pornography



- Money laundering



- Cryptocurrencies frauds



➤ Fighting Deep Fake Technologies



➤ Different Anti Terrorism Approaches



AI Participating in Crime

(source for analysis and prevention)

- Fake Content
- Snooping, Biometrics & beating AI
- Autonomy: Vehicles, Robots & Software
- Tailored phishing
- Disrupting AI-controlled systems
- Large-scale blackmail
- AI-authored fake news
- Military robots
- Data poisoning
- Learning-based cyber attacks
- Autonomous attack drones
- Online eviction
- Tricking face recognition
- Market bombing
- Bias exploitation

SCIENCE BASED FORECAST ABOUT THE FUTURE TREND ABOUT AI IN CRIME PREVENTION AND DETECTION



SURVEILLANCE OVER AND UNDER THE SKIN

SELF-REGULATION

AI IN HUMAN BIO HACKING

DEFINITION AND QUANTIFICATION OF “EVIL”

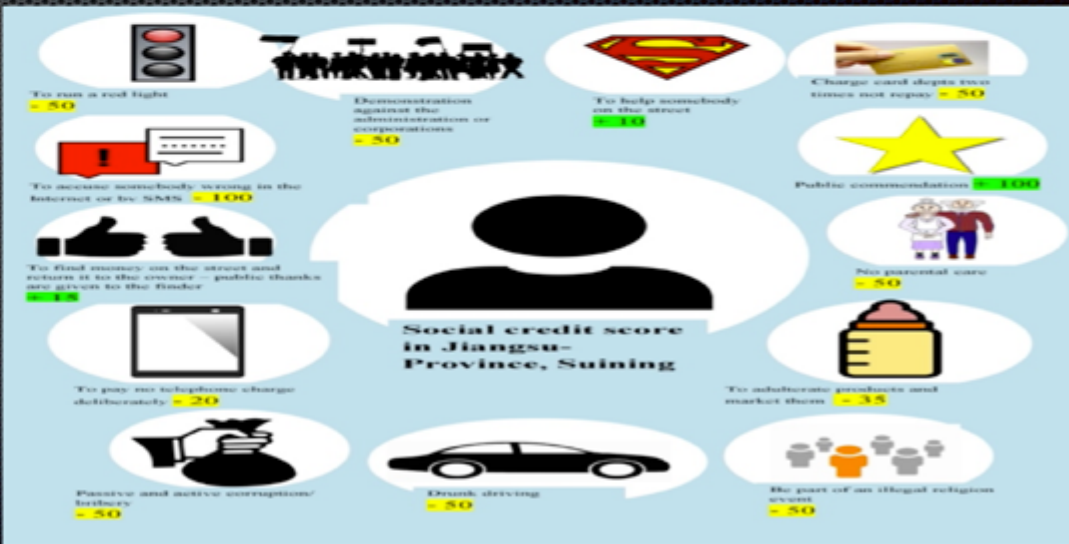
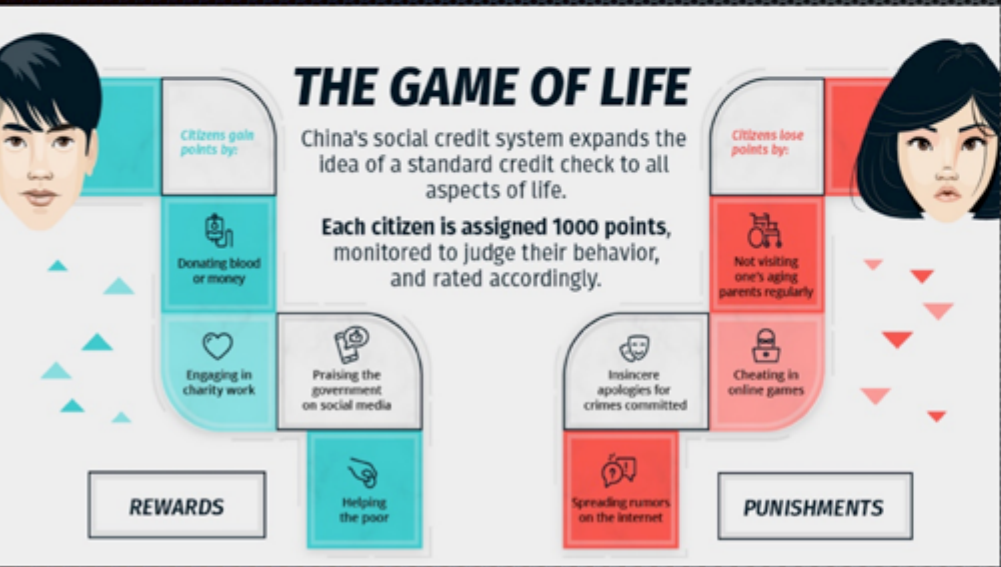
AI IN LAW-MAKING AND LAW ENFORCEMENT



UTOPIA OR DISTOPIA



SOCIAL CREDIT SYSTEM



SLEEP'ABLES



Wearables...

SHOCK'ABLES



PAVLOK

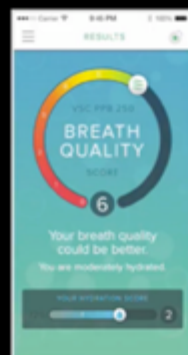
HEARABLES



RING'ABLES



BREATH'ABLES



SMOG 'ABLES

This Wearable Device Measures Your Personal Air Pollution And UV Exposure In Real-time

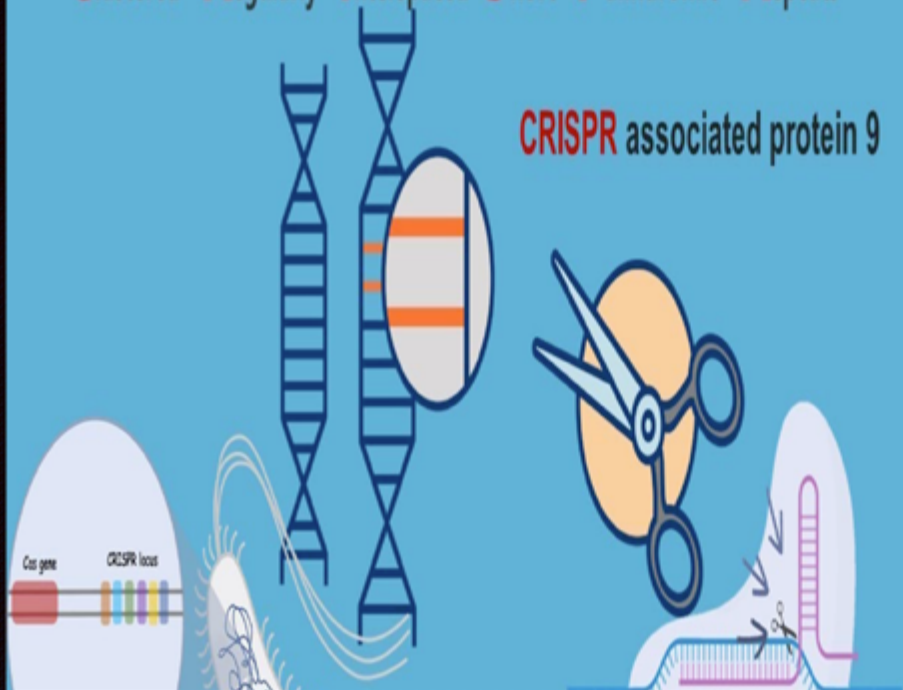
by TESSIE H. LARSEN



SOCK'ABLES

Clustered **R**egularly **I**nterspaced **S**hort **P**alindromic **R**epeats

CRISPR associated protein 9



CRISPR CAS 9 and
SINGULARITY



ETHICAL ASPECTS



Newton Lee *Editor*

The Transhumanism Handbook

 Springer



© 2019

Future Studies and Counterfactual Analysis

Seeds of the Future

Authors: Gordon, Theodore J, Todorova, Mariana

Builds on previous futures research by considering possible outcomes of current global anxieties

» see more benefits



Mariana_g_todorova@yahoo.com

<https://www.linkedin.com/in/mariana-todorova-4a036183/>