Artificialintelligence - an ease or a burden

GATE INTITUTE, LORA GEORGIEVA



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GATE

Develop Big Data and AI applied research, innovation and education in collaboration with government, industry and entrepreneurs

СОФИЙСКИ УНИВЕРСИТЕТ "СВ. КЛИМЕНТ ОХРИДСКИ"











About Us



Future cities

3D city model of Lozenets; Air quality prediction in the cities; Mobility; Urban Heat Islands



Inteligent Government

Dissinformation projects and research / Fighting deepfakes



Smart Industry Environmental monitoring and prediction / Modelling production processes and customer sentiment mining and engagement to increase speed to market for new products, to build better products and services, etc.



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Mobility surveilliance patent / Alzheimer project / Regional Health Data Space





CURRENT REGULATION OF THE AI IN THE EUROPEAN UNION



WHATWEDO?

DATA SPACES

MOBILITY SURVEILLIANCE AND MODELLING

URBAN HEAT ISLANDS

DIGITALTWIN OF LOZENETS DISTRICT

AIR QUALITY PREDICTION





Data spaces





DIGITALTWIN



One-Stop-Shop for Data | Trust, Transparency and Sovereignty | Security | Added Value





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big data for smart society





AIR QUALITY MODELLING

So how do we hope to do anything at all?

Split air quality into modelling and experimental streams.

Split modelling by:

- scale city and street levels
- type data-based and physics-based
- nature transport and static emissions, dispersion
- location outdoor and indoor
- dimension spatial and temporal





- Starting from Automated Video **Detection of Motor Seizures in epilepsy** patients.
- Enhance the Detectors by adding the "Detection of Non - periodic Movements" functionality.
- Add Dynamics by "Autonomous Object's Following" functionality.

Remote Event Synchronous Tracking

- Better Medical Care Service
- Real-Time
- Diagnostics & Predictions
- Remote & Wearable Sensors



Detection with Patient Optical

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Detection, Alerting & Prevention

• Tele-Medicine, and Conventional Medical Practice via SMART Detectors (CV, ML, AI, SI)

Thank You





