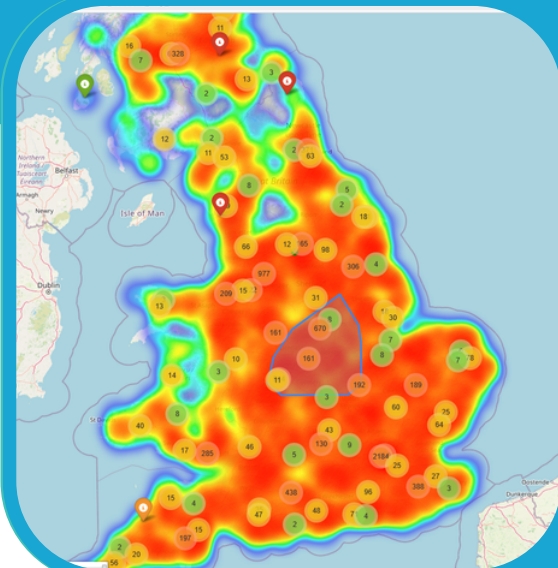
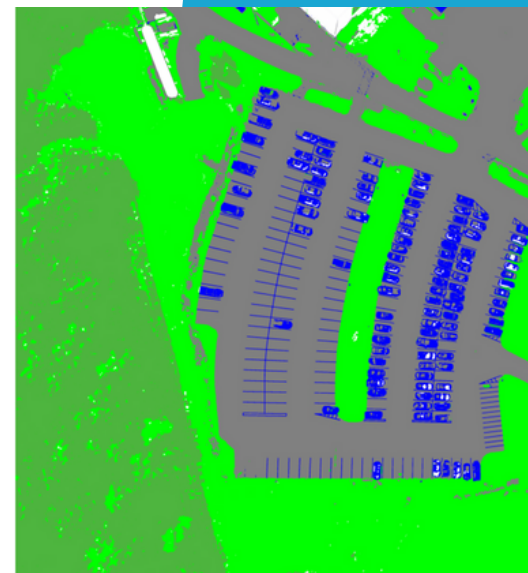


SCIENTIFIC SCHOOL “METHODS AND INFORMATION TECHNOLOGIES FOR RECOGNITION AND INTELLIGENT PROCESSING OF UNSTRUCTURED DATA”

VOLODYMYR HNATUSHENKO
VITA KASHTAN



- A theory and methods have been developed for processing and analyzing large volumes of unstructured data using advanced artificial intelligence and machine learning technologies for the first time.
- Automation of intelligent data processing and analysis under conditions of uncertainty has been achieved.
- The research results can be applied to developing competitive technologies for intelligent data analysis, technical diagnostics, and real-time control of technical and information systems.

Contacts

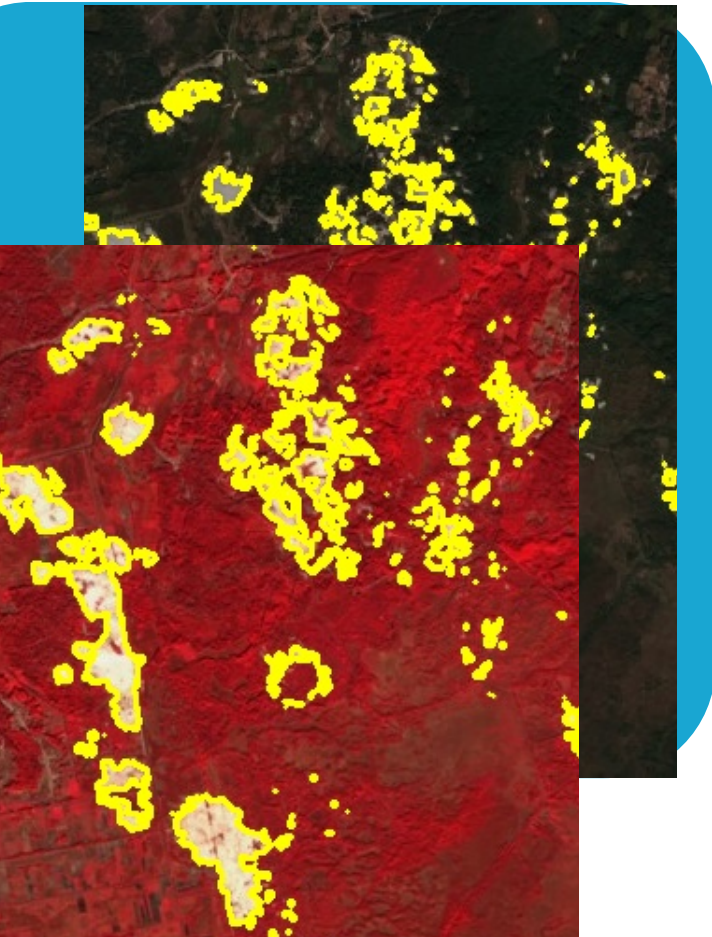


Contacts

AEROSPACE MONITORING

Intelligent satellite and aerial imagery analysis for landscape change monitoring, resource management, and risk forecasting.

LAND COVER MONITORING RESULTING
FROM AMBER MINING



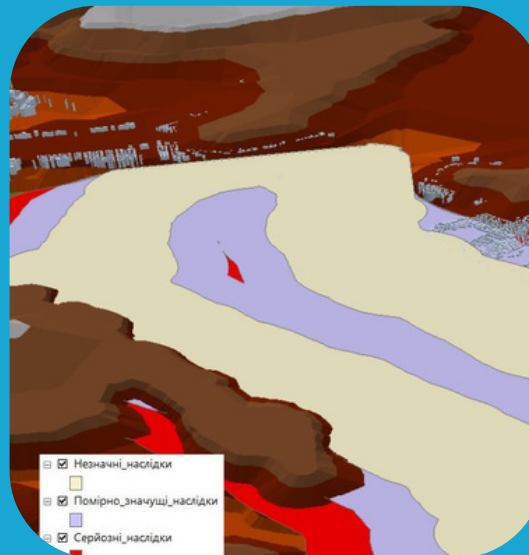
ENVIRONMENTAL MONITORING

Environmental condition monitoring, pollution assessment, ecological disasters, and climate change forecasting.

DETECTION AND ASSESSMENT OF
URBAN HEAT ISLANDS



FLOOD ZONE MAPPING



WEB SERVICE “INTERACTIVE FLOOD
ZONE MAP”

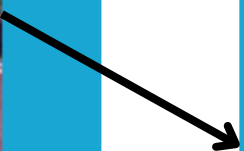
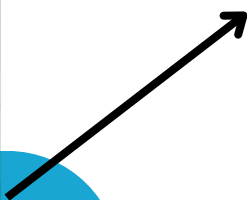


MONITORING OF
DEFORESTATION AND FIRE



AGROMONITORING

Control of agricultural land
conditions, soil moisture
assessment, etc.

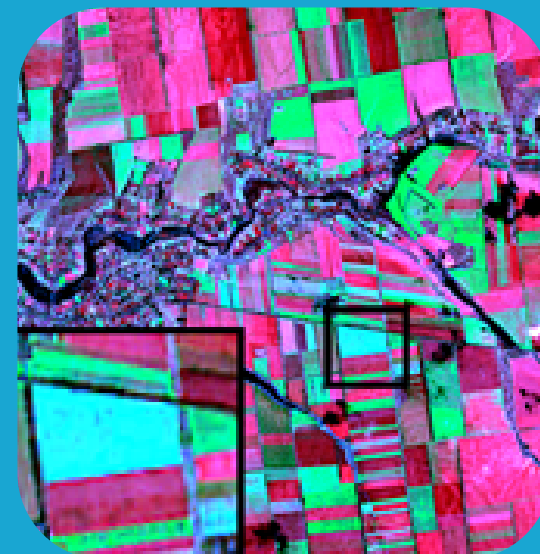


IMPROVING THE ACCURACY OF FIELD BOUNDARY DELINEATION

AERIAL IMAGE

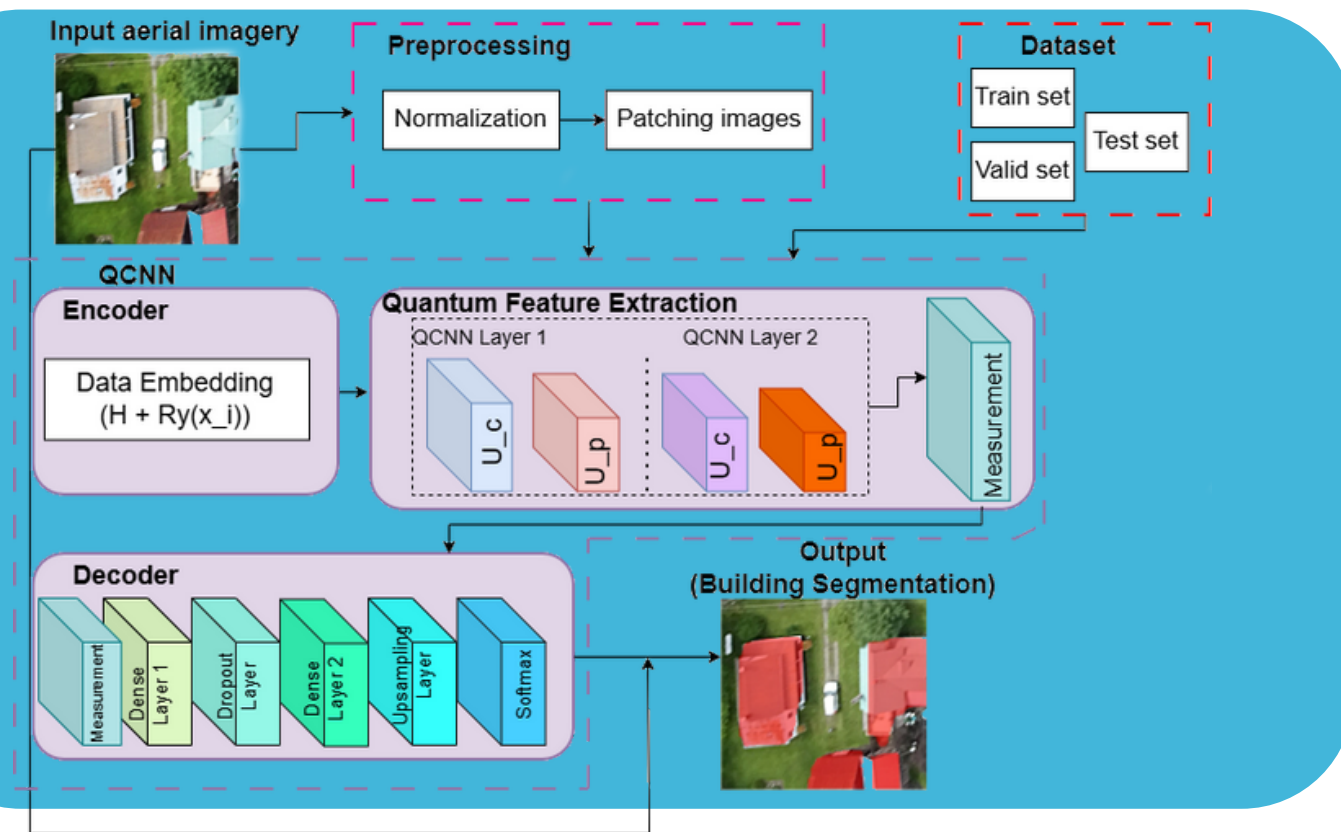


BOUNDARY MAPPING OF
AGRICULTURAL FIELDS

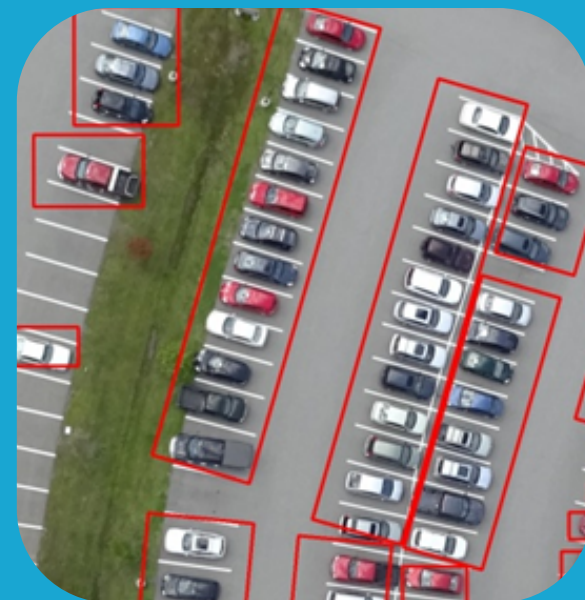


OBJECT DETECTION AND RECOGNITION

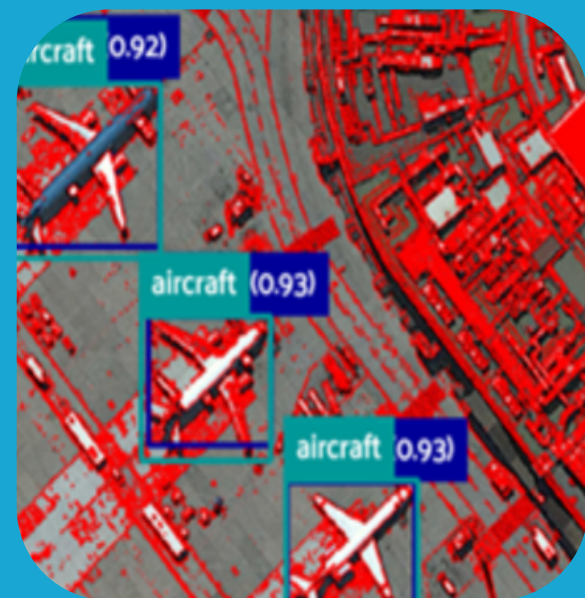
Presents information technology
for semantic segmentation of
objects in high-resolution
aerospace images using a hybrid
quantum convolutional neural
network (QCNN).



VEHICLE RECOGNITION



AIRCRAFT RECOGNITION



MEDICAL DIAGNOSTICS

Using AI and machine learning
for automated medical image
processing and early disease
diagnosis.

