The course is jointly organized by the

UNIVERSITÀ DEGLI STUDI DI MILANO BICOCCA

UNIVERSITÀ DI PAVIA

UNIVERSITÀ DEGLI STUDI DI MILANO

Master Degree in

Artificial Intelligence for Science and Technology

LEARNING PATHS
Sensing and Signal/Image Processing for Healthcare and Environment

Master Degree in
Artificial Intelligence
for Science and Technology

Application Area 3: Sensing and Signal/Image Processing for Healthcare and Environment

MANDATORY EDUCATIONAL ACTIVITIES	CFU/ECTS
Advanced computational techniques for big imaging and signal data	6
Machine learning for modelling Modulo 1: Supervised learning Modulo 2: Unsupervised learning	12
Signal and imaging acquisition and modelling in healthcare	6
Signal and imaging acquisition and modelling in environment	6
ELECTIVE EDUCATIONAL ACTIVITIES: select 1 course	
Physical sensors and systems for biomedical signals	6
Physical sensors and systems for environmental signals	6
Physical sensors and systems for biomedical imaging	6
Physical sensors and systems for environmental imaging	6

HIGH SOCIAL IMPACT

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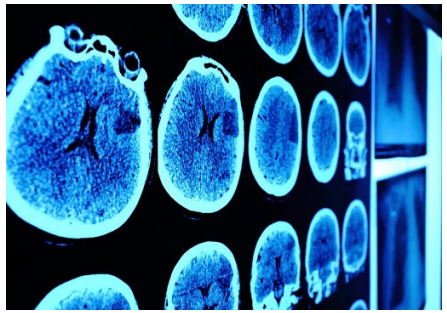
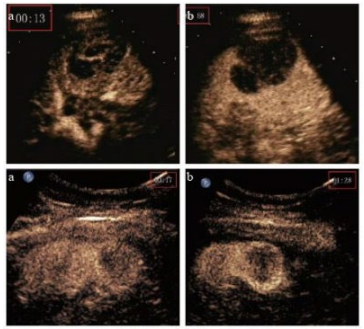
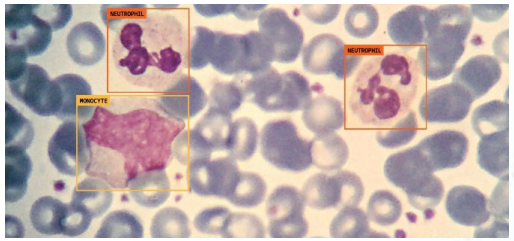
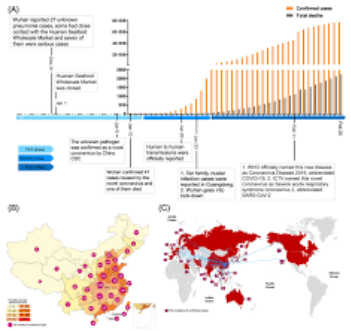
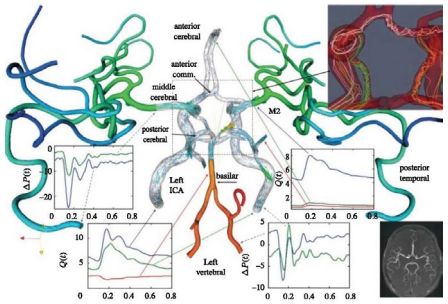
SCIENCE AND TECHNOLOGY APPLICATIONS





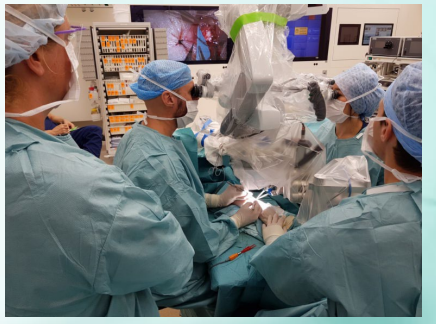


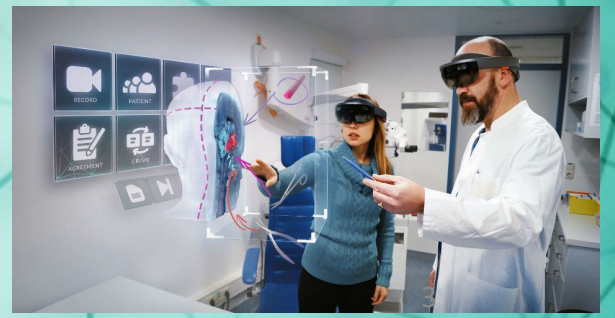




Medical Applications

ETHICS, GDPR, RISK, Clinical benefits, clinical validation, disease prevalence





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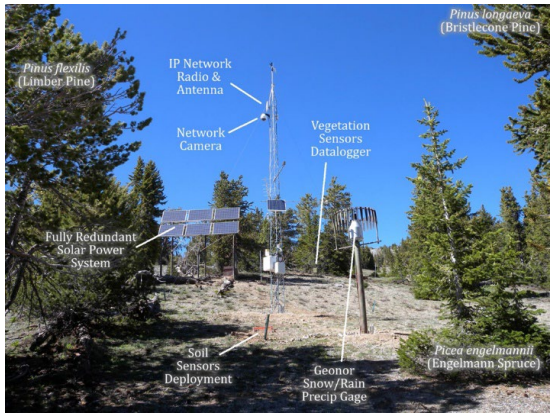
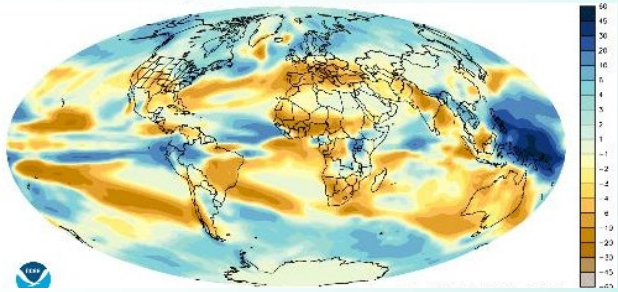
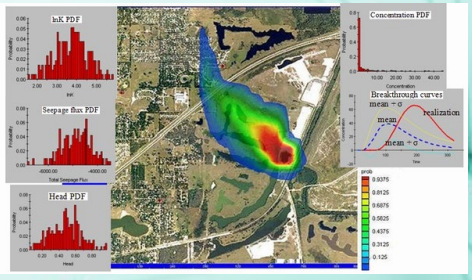
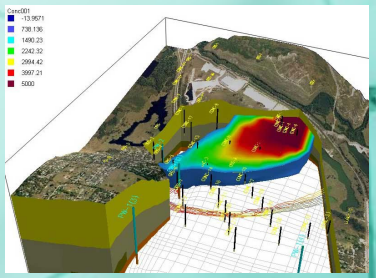
SCIENCE AND TECHNOLOGY APPLICATIONS



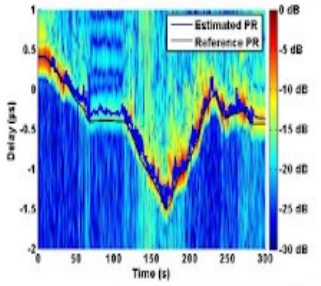


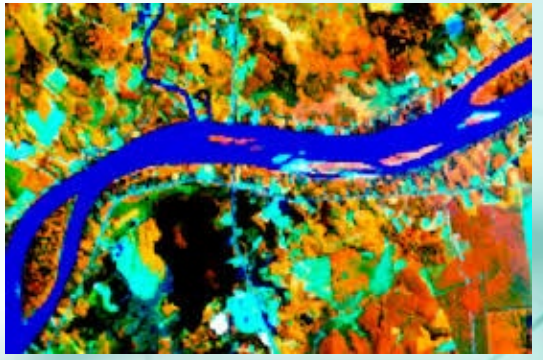


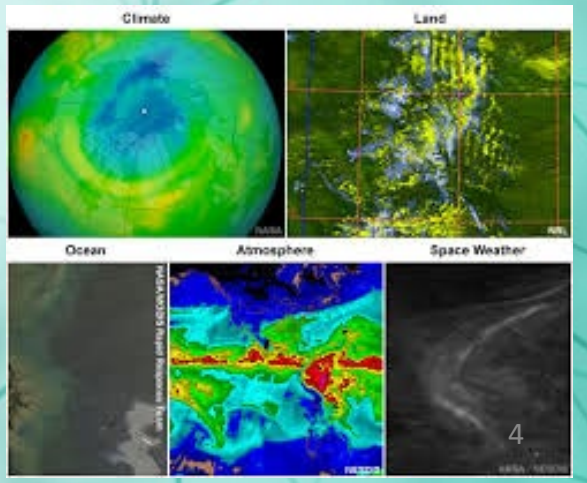


Environmental Monitoring

ETHICS, GDPR, RISK, Environmental benefits, stochastic scenarium







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