

Research Topics Proposals for NTUST – CTU Research Cooperation

(as approved by NTUST and CTU by email on 28.April 2021)

1. Nanotechnology and Advanced Materials
2. Advanced Measurements and Plasma Technologies
3. Advances in Processing and Manufacture of Electronic and Electrical Components
4. Optical Engineering and Imaging Sensing Techniques
5. Deteriorations and Retrofitting Techniques for Civil Engineering Structures
6. Emerging Fields and New Technologies
7. Industrial Management and Design
8. Smart Cities
9. Energy efficient production
10. Artificial intelligence methods applied to biomedical field
11. Efficient man-machine cooperation
12. Intelligent transport systems
13. Innovative methods in transport safety analysis
14. Cooperative and automated vehicles
15. Traffic simulation
16. Travel behavior
17. Applied VR and Interactive Simulation (HMI/HCI)
18. Semiconductor radiation detectors
19. Mobile and wireless networks
20. Artificial intelligence (AI) - robotics, cybersecurity, game theory, planning, mobility, optimization and machine learning
21. Computer graphics - realistic rendering, physically based appearance models, efficient data structures for image synthesis, real time rendering of large scenes, procedural modeling of buildings and cities, image manipulation and processing, and virtual and augmented reality
22. Neural Architecture/Architectural Intelligent Adaptive Systems