

TFK-ohjelmasta 2021 tuetut hankkeet

TFK programme funded projects 2021

Project title: Transformative Computational Design Thinking for Sustainable Future Cities	
Coordinator Aalto university Yu Xiao yu.xiao@aalto.fi	Smart mobility has become a more and more important theme in the sustainability agendas of urban transport systems and services. The coordinated use of emerging information and communication technologies (ICTs) has contributed to the dissemination of improvements linked to the concept of the smart city to increase the quality and efficiency of mobility provision. Smart mobility keeps company with the country and city's visions and surroundings, such as traffic issues and available transportation modes. A potential mobility solution applicable across diverse situations comes from a seamless alignment in the country and city-wise needs and objectives of stakeholders. Given that inherent variability and complexity, a systematic approach is needed, including multidisciplinary and cross-border facilitation.
Partners Singapore University of Technology and Design (SUTD)	This project is to facilitate a joint educational program to discipline trainees in Finland and China. We aim at strengthening the education collaboration between three higher education institutes (HEIs), Aalto University (hereafter, Aalto), Tongji University (hereafter, Tongji), and Fudan University (hereafter, Fudan) in the field of smart mobility, especially emerging ICTs for sustainable urban mobility, through student/staff mobility and joint teaching activities in this project. This project will bring together all these three universities' competencies in smart mobility research, such as 5G mobile communications system, machine learning for massive data analysis, and human-centered design, to create an environment for high-quality teaching and learning. It will also provide opportunities for students from different universities to work together on urban mobility challenges, and to experience different cultures. In addition, from this project, as a partner university of the European Institute of Innovation and Technology (EIT) Urban Mobility Master School, Aalto will have the chance to further expand and strengthen its international research collaboration capability.



OPETUSHALLITUS
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Finnish National Agency for Education EDUFI
Hakaniemenranta 6, P.B. 380, FI-00531 Helsinki
Puh. /Tel. +358 (0) 29 533 1000, Faksi /Fax +358 (0) 29 533 1035
www.oph.fi