

New capabilities in road tunnel operation education

EUCEET 2018 4th International Conference on Civil Engineering Education: Challenges for the Third Millennium

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ABSTRACT

Faculty of Civil Engineering at University of Žilina, especially the staff of the Department of Construction Management, has recently dealt with a project focused on applied research on new technologies to improve the safety of road tunnel operation. One of the results is Tunnel Traffic & Operation Simulator (Simulator), a unique device for simulation traffic in two-tube road tunnel with possibility of interrupting the traffic flow by various emergency events. It is also possible to simulate the failures of different technological equipment. A new study subject "Tunnels" was created in the last re-accreditation of the second degree study program in 2015. Within the laboratory exercises, the students are taking practical lessons on Simulator will be described in detail followed by the opportunities for student education and vocational training of real road tunnel operators in terms of accredited education program "Management of Tunnel Operation" of lifelong continuing education.