NEW CONCEPT, CONSTRUCTION AND STANDARDIZATION OF URBAN TRANSPORTATION SYSTEM

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This paper presents an original concept of an urban transport system based on a hybrid vehicle that can move as an electric vehicle driven by a man or as special PodCar vehicle (Rights of Way a; b or c).

The system was developed at the Warsaw University of Technology and will be hereinafter referred to as HVTSUA system (Hybrid Vehicle and Transit System for Urban Application). The vehicle in the proposed urban transport system is designed for both able-bodied drivers and passengers, as well as persons with reduced mobility caused by broadly understood age-related diseases or civilization diseases (e.g. victims of accidents, multiple sclerosis, etc.). In this context, an original concept of design and HMI (Human Machine Interface) standardization was presented for this type of vehicle. The concept of HVTSUA builds on the work initiated within the framework of „Eco-Mobility” project co-financed by the European Union. HVTSUA integrates the PodCar system developed there with “Eco-Car” system. The integration of these two elements and equipping them with new technology became the basis for a system with new quality.

References

2. Grabarek I., Choromański W., Ergonomic issues in design of innovative means of transportation and transportation systems., Advances in Human Aspects of Transportation Part II, edited by N. Stanton, S. Landry, G. Di Bucchianico, A. Vallicelli, Published by AHFE Conference 2014, pp.95-106.