

The Research Centre of the Faculty of Economics
cordially invites you to a research seminar
on **Tuesday, 19th December 2017**
at **1 p.m.** in room **P-119**
at the **Faculty of Economics, University of Ljubljana**

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will present the article:

**“An Evaluation of Train Control Information Systems for Sustainable Railway
using the Analytic Hierarchy Process (AHP) Model”**

“In the process of nowadays efficiency evaluation of any mode of transportation, sustainability results as the most important factor. In regard to railway sustainability, Train Control Information Systems (TCIS) are such advanced systems with important positive impacts. The main purpose of this study was therefore the evaluation of these impacts as well as the evaluation of Key Performance Themes (KPT) for sustainable railways.

Firstly a very detailed literature review of papers that have focused on TCIS and their improvements on railway sustainability, published in the scientific journal in the period from 2005 and 2016, was performed. The number of studies was then used as a main criteria in Analytical Hierarchical Process (AHP) evaluations or rankings of these systems and their impacts.

The paper offers results from the first systematic review of papers which investigate the role of TCIS in terms of sustainability and, additionally, represents a refined approach to TCIS classification with a new classes descriptions. During review KPT for sustainable railways were also identified. Further, AHP evaluated the Train Management and Interlocking Systems and their subsystems as the most important TCIS, and safety and costs of equipment, installation, maintenance and operation as the most important themes.

The results are important for both, scholars for their future research and for other railway stakeholders and decision makers, who must select different systems and technologies for implementation in their railway systems with emphasis on increasing performance and sustainability. The study offers also the opportunities for further research in regard to railway sustainability.”

You can register for the free seminar by phone (01) 58-92-490, or via e-mail:
research.seminars@ef.uni-lj.si by Monday, 18th December 2017.

You can find all information regarding future research seminars on following link:
http://www.ef.uni-lj.si/raziskovanje/seminarji_in_konference

We look forward to seeing you!

