



Ing. Lukáš Hejzlar

**Vývoj nových železničních monitorovacích systémů za účelem snížení počtu  
a dopadů vykolejení**  
**D-Rail Project – Development of Future Railway Monitoring Systems to Reduce  
Occurrences and Impacts of Derailment**

The paper aims to inform readers about current activities in the field of European projects in which also Czech institutions are involved. Readers will find there basic information about the project dealing with an important issue for railway traffic operation – reducing the number of derailment incidents through development of new or innovation of existing monitoring concepts.

Ing. Ivan Horecký – Ing. Pavel Kříž – Ing. Viktor Patras, Ph.D.

**Současný stav rozvoje IS ÚDIV**  
**Current state of the UDIV IS development**

This article represents the current state of the information system of the central freight railway wagon routings (UDIV). It describes key features of the application, which have been formed on the basis of transport experience development as well as related information systems for several years. At the same time it gives insight into basic up-to-date state of genuine links to related information systems and indicates possible future trends.

PhDr. Marek Hryciow

**Automatizace informačního systému pro cestující  
na DOZ Plzeň (mimo) – Cheb (mimo)**  
**Automation of the information system for passengers on the Plzeň (exclusive)  
– Cheb (exclusive) railway line with a remote-controlled interlocking system**

An integral part of modernised stations and railway line sections is formed of information systems for passengers. The result of their activities is completion and update of the public transport data obtained by passengers from basic information sources, e.g. from the printed timetables or the IDOS search engine. Control units of modern information systems with a link to higher control and information systems are able to work with a high rate of automatics, and thanks to their own “intelligence” they are able to perform certain tasks without intervention of transport staff. The article describes extension of automatic functions of the INISS information system on the remote-controlled railway line Plzeň – Cheb on both planned and unplanned outages, whereby it contributes to reduction of the routine work of controllers while maintaining the standard range of information services defined by the railway operator.



Ing. Ladislav Kovář - Ing. Mgr. David Krásenský – Ing. Vlastimil Polach, Ph.D.  
– Ing. Zdeněk Zouhar

### **Diagnostika jedoucích železničních vozidel Diagnostics of rolling stock in motion**

This article deals with the issues of diagnosing technical condition of railway rolling stock of the state-owned infrastructure operator SŽDC whilst in motion on the network, with the purpose of detecting dangerous situations that could have an influence on the safety and flows of railway traffic. We present possible defects of the rolling stock, means of their detection and the information acquired from the diagnostic systems installed. A special emphasis is placed on complete utilization of the measured data and identification of potential problems to the stock owners for the use by infrastructure managers and carriers.

Ing. Jakub Marek, Ph.D.

### **Technické specifikace a generické analýzy systému ETCS Technical specifications and generic analyses of ETCS**

This contribution is from the field of railway control-command and signalling systems and deals with generic analyses of the European Train Control System (ETCS), which exist or are being prepared at the ERA/UNISIG level. In particular, it is focused on safety and dependability analyses of this system which are originated and maintained by the UNISIG RAMS WP working group. The article summarises them, recaps them and provides information about them to readers.

prof. JUDr. Karel Marek, CSc.

### **Smlouva zasílatelská Forwarding Contracts**

Under a forwarding contract, the forwarding agent undertakes in their own name to arrange carriage of goods for the sender at the sender's expense from one designated place to another designated place, and in consideration for this service the sender undertakes to pay a fee to the forwarding agent. The forwarding agent is authorised to be given a written forwarding order unless the contract is made in writing. The aim of the contribution is to inform about the legal regime governing forwarding contracts according to the New Civil Code.



Ing. Marek Neustadt

**Stav implementace TSI TAP  
State of TSI TAP implementation**

The article informs about the actual course of the European TSI TAF/TAP implementation, governing structures and work development. The article continues with a description of individual constituent elements, objects forming the philosophical basis of the solution, processes and messages. Each part then provides a brief report on the current state of implementation on the part of the Czech IM and railway transport operators.

Ing. Ivo Novotný

**Integrované dopravní systémy a železnice, provázanost s ostatními druhy  
dopravy  
Integrated transport systems and railway, interconnection with other modes  
of transport**

The paper focuses on a modern approach to organisation of public transport services based on integrated transport systems, and offers basic aspects of their establishment and functionality. The paper deals also with the issues of transition points between backbone and feeder lines and proposes various possibilities of solving such transition links.

doc. Dr. Ing. Roman Štěřba

**Projekt RAILISA UIC  
RAILISA UIC Project**

The article describes the RAILISA (Rail Information System and Analyses) project of the International Union of Railways (UIC). RAILISA focuses on collection, processing, reporting and analyses based on sector-oriented railway statistics. It mentions the first generation of the RAILISA application, which is soon to be replaced with an advanced version at the level based on the state-of-the-art information technologies. The new generation of RAILISA will include also automated production of both quantitative and qualitative railway transport indicators.