Dear readers

With this issue we start the eighth volume of the Journal of Systems Integration. I suppose you are our long-term readers and that you like our Journal. We offer you some interesting articles in this issue with broad topic of information systems.

Implementation of Industry 4.0 in each industrial company is connected with stable definition of core production processes, strongly dependent on stable structure of supporting IT processes and technologies functionality. One of the important requirements for successful implementation of Industry 4.0 is a clear vision about process steps and core process stabilization in the company. In more detail about this necessary demand you can read in the article “Process stabilization – key assumption for implementation of Industry 4.0 concept in industrial company” written by Felicita Chromjakova.

Strategic decisions, in times of the permanent changing business environment, cause requirements for right information about status of an organization. Management needs information in a good quality not only about whole company but about each part of a company (division, unit, processes, products etc.). One of the way how to do it is using Business Informatics. In the article “Management of Business Informatics and Performance Management”, written by Milos Maryska and Pavel Sladek, is proposed structured approach for using Business Informatics to measure performance of the company.

Similarly, the next article of this issue is devoted to the problem of Enterprise Performance Management especially in Small and Medium enterprises. What is the difference between using decision making with or without Business Intelligence application? The answer you can find in the article of Jan Hudec and Viera Tomisova: “Modelling of the costs of decision support for small and medium-sized enterprises”.

The Enterprise Architecture (EA) allows a good orientation in large enterprise systems. How to use basic standards of EA in The North Atlantic Treaty Organization Architecture Framework (NAF) is described in the article of Ladislav Burita and Karel Zeman “Architecture Approach in System Development”. It is intended for the design of systems in the NATO C3 (Command, Control, and Consultation) and leads to facilitation of the deployment of Communication and Information Systems, in line with other systems in NATO. There are given the NAF architecture views and templates and the relationships between them, the suggested rules and procedures. NAF is applied to the optimization transport services.

Most current software applications use Web as a default presentation layer. The original purpose of the Web for information sharing, accessibility, collaboration and access all the data from any device connected to Internet is obvious, as well as a need to interconnect different systems and send data between them. In the article “Practical Implementation of 10 Rules for Writing REST APIs” written by Vilém Sklenák and Jiří Hradil are discussed three main technologies: Representational state transfer (REST), Application Programming Interface (API) and JavaScript Object Notation (JSON) for using it.

I would like to wish all the best for the year 2017 and I expect that you will still remain faithfully readers of our magazine in this year.

Zdenek Molnar – Editor in Chief