Dear readers,

In this issue you can find articles dealing with broad spectrum of contemporary managerial problems of software development, business process management and information management.

Data, context and interactions are the three fundamental facets of the end user's interpretation of computer data. Each of these facets is considered a component of the application under development. Only after the data are put into a context, in which they are subject to interactions amongst themselves, can the data yield some information. In the article “Designing Applications Using Data-Context-Interactions Architecture in Morpheus” written by Zbyněk Šlajchrt is demonstrated how the concept of Object Morphology and, in particular, its proof-of-concept implementation Morpheus, can be used to develop applications following the Data-Context-Interactions principles.

E-Learning is a major technological and pedagogical development that improves the quality of human life, and one of the most important elements determining its quality is Learning Management Systems features. E-Learning, at the same time, is also a very significant tool for cost saving and democratization in education. In the article „Learning Management Systems and Comparison of Open Source Learning Management Systems and Proprietary Learning Management Systems“ written by Doğancan Ülker and Yücel Yılmaz, criteria that need to be taken into consideration in Learning Management Systems selection are emphasized and the importance of this choice to manage existing e-learning processes in a most effective and efficient way is stressed.

In the last decade research has shown that open access to Public Sector Information increases the efficiency and transparency of public sector and drives to a knowledge-based economy. Thus, a large number of governments over the world have been focusing on maximizing the benefits from Public Sector Information in terms of citizen participation and empowering innovation in society. In the article of “Public Sector Information and Open Government Data” written by Mohammad Adly Talaat is shown how the Egyptian government has made remarkable efforts in the field of availing Public Sector Information including striving to issue the data exchange law in addition to having a large number of the ministries and governmental agencies now sharing their related data on their own portals.

In order to simplify and implement enterprise architecture using service-oriented architecture, we first need to find commonalities between enterprise architecture and service-oriented architecture structure and their semantic properties to map, or rather to integrate them. With these problems deals article of Aziz Ahmad Rais "Interface-based enterprise and software architecture mapping".

We could define Business Process Management as the complex of the procedures, methods and concepts which are used to processes effectiveness increasing in compliance with the company targets by using the appropriate metrics and measures. In Business Process Management is necessary to integrate not only humans, organizations, applications, documents and other sources of information, but also integrate all production plant processes. Research made by Zuzana Tučková and Zdeněk Novák “Do the Czech Production Plants Measure the Performance of Energy Processes?” shown, that the energy processes are detached; even the company declared that it uses the process management in the whole company. But the Energy Processes Management implemented clearly up to the processes in the lowest level can return increasing of the production plants and last but not least added value to the customer.

I hope that you will find articles in this issue interesting and useful in your professional endeavors. Please do not hesitate to let me know your views about the content of this issue and your suggestions for improving the quality and professional standard of our Journal.

Zdeněk Molnar – Editor in Chief