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Press Release

Konica Minolta showcases predictive maintenance at Machine Learning Conference

Brno, Czech Republic, 20 April 2017

Konica Minolta is supporting the Machine Learning Conference in Prague, the most important event in the Czech Republic about machine learning applications. Speakers from world-leading companies will give keynote talks in front of more than 500 attendees from the whole of Europe. By giving a keynote speech, Konica Minolta Laboratory Europe (KMLE) will demonstrate how machine learning can bring additional value to predictive maintenance applications.

Predictive analytics is one of the emerging areas within innovative industries, and Konica Minolta is investing resources in research on this topic. In Konica Minolta Laboratory Europe, in the last months, a team has been working on a Predictive Analytics for Maintenance project, whose aim is to predict the requests for maintenance of Multifunctional Printers (MFPs) within the organization.

Predictive Maintenance of Multi Functional Printers

Predictive Maintenance of MFPs is a challenging task from both organizational and technical perspectives. Nevertheless, a system capable to predict the status of many machines spread all over the world would constitute great value for several companies. The first step to set up such a system is the collection of signals and information from sensors within the MFP devices: at this stage, hundreds of signals are generated. Then raw signals are transformed into a unified format for all models of MFPs and data are stored for:

- preparing machine learning models that are able to predict if maintenance is required
- predicting the actual maintenance forecast to be needed over a short period into the future.

The results of the predictions enable the organization to pre-trigger customer support requests.

The quality of predictions depends on input data and on the model

According to the research performed by KMLE, the quality of predictions is determined by the quality of input data and the sophistication of the model. In the laboratory, the development of a Proof of Concept for such a system can be prepared in a relatively short time and the details about this solution will be disclosed within a talk about “How to quickly prototype machine learning systems” by Wojciech Indyk in the program for the Machine Learning Prague Conference on the 21st - 23rd April 2017.

Machine Learning Prague is the largest conference in Czech Republic for applications of Machine Learning and the organizers have prepared an interesting



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program with talks and workshops from invited speakers belonging to several of the industrial players in this field such as Facebook, Google, Microsoft and many others. For more information about the conference visit: <http://www.mlprague.com/>

Additional Materials

- “Predictive Maintenance at Machine Learning Conference in Prague”, Blog post available at: <http://research.konicaminolta.eu/predictive-maintenance-machine-learning-conference-prague/>
- “A revolution in the workplace: unlocking the meaning behind your data”. White paper available at: http://research.konicaminolta.eu/wpsitekmlle/wp-content/uploads/2017/02/Konica_Minolta_Digital_Workplace_WP.pdf

About Konica Minolta Laboratory Europe (KMLE)

Since its establishment in 1873, Konica Minolta has had a long history of innovation and is now expanding its business in various fields including the digital workplace, digital healthcare, sensors and information automation, and smart data systems. For Konica Minolta, innovation and research are key elements for creating new value for society overall. With this ambitious objective, in 2015, Konica Minolta Laboratory Europe (KMLE) has been established as part of the Konica Minolta Corporate R&D. Having its headquarters in London and its R&D laboratory in Brno, Czech Republic, in the course of 2017 a second KMLE centre focusing on healthcare technologies will open in Munich, Germany.

Exploiting the long standing and robust experience of Konica Minolta, KMLE is the hub where innovative solutions in the field of information and communications technology come to life to transform the next generation of products and services from Konica Minolta. Leveraging on close collaboration with the Konica Minolta Business Innovation Centre Europe and other external research organizations, Konica Minolta Laboratory Europe takes advantage of the most advanced technologies to support new business opportunities driven by innovation and customers' needs.

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