

Title of the session: „Digital Transformation and Cyber security”

Date: 12.04.2019.

Location of organization of the thematic session – Międzynarodowe Centrum Kongresowe
w Katowicach

Time: 9.00 - 15.00

Supervisor of the session – Krzysztof Szymański, tel.: +48 32 700 2851, tel.kom.: +48 603 771 479,
kszymanski@jswits.pl

Leader of the session – dr inż. Artur Kozłowski, Profesor of the Institute, Director of the Institute of
Innovative Technologies EMAG

Description of the session:

In today's world, the interpenetration of the issues of automation, control with IT tools that support technological processes and management processes is a fact. It can be clearly stated that the idea of Industry 4.0 is a viable reality.

In connection with the above, it should also be stated that digitization (digitization) is becoming a key feature of innovation. Today, it determines both market competitiveness and in many areas is an indispensable necessity related to the survival of companies on the market.

Modern mining requires continuous improvement of the efficiency of both technological processes, as well as decision-making or planning. For this purpose, it is necessary to automate processes and introduce components related to artificial intelligence, prediction of events, etc. These activities will increase the efficiency of production and safety of the staff.

The purpose of using intelligent distributed systems is not to replace people by machines, but the already mentioned increase in the efficiency of technological processes through the use of interaction between people and machines. However, it should be remembered that along with the development of information and information systems and technologies, communication systems, the spread of the so-called The Internet of Things (IoT) increases the number of susceptibilities to attacks and other external cyber threats. Issues related to cybersecurity are of particular importance at all user levels with regard to the increasing number of IT systems used and the amount of data involved.

Session titled "Digital Transformation and Cybersecurity" will present modern, innovative solutions in terms of their application in mining in the context of the Cybersecurity Act. The topics of the papers will focus on three main issues. First of all, we will talk about cyber security in modern technologies and IT solutions, about the challenges associated with the use of mobile devices that may require access to technological networks from anywhere (mobile workplace) and adaptation of IT infrastructure to the requirements of Industry 4.0.

Agenda

- | | |
|---------------|--|
| 9:00 - 9:20 | Digitalization of technological processes in industrial plants - dr hab. Artur Kozłowski, Profesor of the Institute, Director of the Institute of Innovative Technologies EMAG
Piotr Wojtas, President of the Management Board (CNP EMAG) |
| 9:20 – 9:40 | Incidents in the service of the Cybersecurity Act - Maciej Kulesza, Commercial Director (Media Recovery) |
| 9:40 - 10:00 | Providers of cybersecurity services - legal, technical and organizational requirements - Marek Ujejski, Advisor to the Management Board for Cybersecurity (COIG) |
| 10:00 - 10:20 | Protection and management of a mobile workstation (MDM) - Przemysław Dołba, Head of Competence Center Productivity (JSW IT SYSTEMS) |
| 10:20 – 10:30 | Coffee break |
| 10:30 - 10:50 | Improving the effectiveness of the work of supervisors through the implementation of IT tools - Łukasz Herezy, Director of Innovation and Development (LW BOGDANKA) |

- 10:50 - 11:10 Assets management efficiency increase and security increase with the use of class EAM/CMMS systems, Sławomir Czernek, Asset management software development Manager (Elgór Hansen), Michał Wolniewicz, Asset management technology and architecture systems Manager (Elgór Hansen)
- 11:10 - 11:30 Augmented reality, a modern tool supporting decision making processes - Łukasz Trybułowski, Application Administrator in the Competence Center of Engineering Applications (JSW IT SYSTEMS)
- 11:30 - 11:50 Private cloud (CEPH) - Artur Bajor, Head of Competence Center Systems and Infrastructure (JSW IT SYSTEMS)
- 11:50 - 12:10 Efficient maintenance process digitalization based on the device condition, Maciej Kuczyński, Senior Business Solutions Consultant, (ABB)
- 12:10-12:30 OT infrastructure integration with the Big Data solutions and machine learning technology – Sebastian Sokół, CEO (REDNT)
- 12:30-13:00 Lunch
- 13:00-13:20 ABB Ability™ System 800xA - the best DCS in the world - Tomasz Sińczak, Director Control Systems (ABB)
- 13:20 - 13:05 Asix.Evo® - modern ASKOM SCADA - Waclaw Bylina, Asix.ASKOM System Sales Engineer (ASKOM)
- 13:40 - 14:00 Digital twin of a mining company - Microsoft
- 14:00 – 14:20 MQTT and Watson IoT Platform - Hubert Duda, Solution Architect (IBM)