

Ministry of Education and Science of Ukraine
Sumy State University
Oleg Balatskyi Academic and Research Institute
of Finance, Economics and Management

SOCIO-ECONOMIC CHALLENGES

Proceedings
of the International Scientific and Practical Conference

(Sumy, November 3–4, 2020)



Sumy
Sumy State University
2020

330.3:005(063)

S62

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(protocol № 5, 12 November 2020)*

S62 Socio-Economic Challenges : Proceedings of the International Scientific and Practical Conference, Sumy, November 3–4, 2020 / edited by Prof., Dr. Vasilyeva Tetyana. – Sumy : Sumy State University, 2020. – 511 p.

Proceedings of the International Scientific and Practical Conference "Socio-Economic Challenges" are devoted to finding a systemic solution to multidisciplinary problems in the field of modern development, management, administration of various systems, corporate social responsibility, innovation management in various fields of environmental management.

For scientists, scientists, students, graduate students, representatives of business and public organizations and higher education institutions and a wide range of readers.

330.3:005(063)

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INTERNET OF THINGS IN LOGISTICS

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Today, we live in the era of the digital revolution, when technology appears in almost every aspect of our lives - from our work to everyday life. The topic of the Internet of things is now becoming increasingly popular, which has opened a new digital era with the ability to connect any device to the network. This process became a kind of foundation for the development of the Industrial Internet of things and also allowed us to move forward in modern realities, when COVID - 19 destabilized the work of all industries. Today IoT technologies are being implemented in all business areas, from agricultural equipment to biosensors in the medical field. The Internet of Things (IoT) is a network of devices connected to each other using sensors or software to jointly process data over the Internet. Currently, the structure of the Internet of things mostly consists of loosely coupled devices in the network, each of which performs a specific task assigned to it. But with the development of technology and the Internet they will be able to unite in networks to solve a wider range of tasks, and operate with more information in management, analytics, and security support. As a result, the development of the Internet of things will open up more perspectives for users and increase the potential for production development, which will reduce total costs. Logistics and cargo transportation have always been risky areas as there are risks of resource loss due to weather conditions, commercial risks and risks associated with inventory theft. Regardless of the company's activities direction, there are always a number of problems: cargo is often improperly sent or stored, which can lead to damage to the goods. In addition, working with a large amount of goods can lead to disorganization in the production warehouse. According to the World Shipping Council, about 50 billion dollars lost each year due to cargo theft or damage to logistics chains. The introduction of Internet of things technology opens up new perspectives for logistics companies, such as:

- optimization of the allocation of resources and labor assets and reduce delivery costs. Automated order processing will help companies to reduce the number of employees responsible for delivery, reducing overall operating costs. The usage of IoT sensors in manufacturing in its turn can help to analyze information about the state of stocks, their possible surplus or shortage, which can serve to predict market trends and future needs.
- monitoring of the workflow and movement of goods/vehicles. The usage of modern IoT devices will allow to monitor and evaluate the performance of employees, it will help to conduct more effective management, ensure timely deliveries, improve quality control, minimize thefts and prevent car breakdowns by

analyzing their characteristics. This will help customers to track products more effectively, monitor their integrity and storage conditions.

- ability to respond to events in real time and make appropriate decisions. Companies can track their products in real time, monitor their condition and optimize their transportation to improve efficiency. It is also in their best interest to protect their entire supply chain by actively responding to threats to its integrity in order to protect their products, consumers, and their company's reputation.

- simplify the warehouse management and inventory process. Even now, some logistics companies use Internet of Things technologies, mainly RFID (Radio Frequency Identification), a method of automatic identification of objects, in which data is stored in RFID tags and is read or written using radio signals. The signal of a single RFID sensor can cover an area of up to 30 m² and read up to 600 tags every second. Thus, such a system will always display items status to which RFID sensors are attached, which in its turn increases the compliance of existing stocks with internal accounting data.

On the opposite side, connecting more and more devices to the internet will lead to increased security concerns, opening up more and more opportunities for cybercriminals. Therefore, participants and developers of the IT market need to learn how to protect their systems from interference. The technology will also accelerate the automation of production, which will inevitably lead to a sharp reduction both in servicing personnel and due to its analytical capabilities also in managing personnel. In addition, at the moment, the legal aspects for regulating the Internet of things are rather inaccurate. As the Internet of things evolves, technology will be able to process more and more complex operations, ensuring that operations become safer and more efficient, allowing companies to minimize their financial costs. It is clear that today there is no work without people, but the higher the level of tasks that we set, the more things (including traditional servers and applications on them) are automatically included in the solution of this tasks without human instructions, the more this internet becomes an internet not of people, but of things.

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Наукове видання

СОЦІАЛЬНО-ЕКОНОМІЧНІ ВИКЛИКИ

Матеріали Міжнародної науково-практичної конференції

(Суми, 3–4 листопада 2020 року)

Стиль та орфографія авторів збережені.

Організаційний комітет і редакційна колегія можуть не поділяти точки зору авторів.

Автори відповідають за точність, достовірність і зміст матеріалів.

Посилання на матеріали конференції обов'язкові.

Відповідальний за випуск Т. А. Васильєва

Комп'ютерне верстання С. В. Миненко

Формат 60×84/16. Ум. друк. арк. 29,86. Обл.-вид. арк. 38,58.

Видавець і виготовлювач

Сумський державний університет,

вул. Римського-Корсакова, 2, м. Суми, 40007

Свідчення суб'єкта видавничої справи ДК № 3062 від 17.12.2007.