
ABSTRACTS

*doi:10.22306/atec.v5i2.50**Received: 30 July 2019**Accepted: 20 Aug. 2019***EVALUATION OF THE IMPACT OF INTELLIGENT LOGISTICS
ELEMENTS ON THE EFFICIENCY OF FUNCTIONING INTERNAL
LOGISTICS PROCESSES**

(pages 55-58)

Milan Bachár

Institute of Industrial Engineering and Management, Faculty of Materials Science and Technology in Trnava, Slovak University of Technology in Bratislava, Jána Bottu 25, 917 24 Trnava, Slovak Republic, EU, milan.bachar@stuba.sk
(corresponding author)

Helena Makyšová

Institute of Industrial Engineering and Management, Faculty of Materials Science and Technology in Trnava, Slovak University of Technology in Bratislava, Jána Bottu 25, 917 24 Trnava, Slovak Republic, EU,
helena.makysova@stuba.sk

Keywords: logistics evaluation, logistics efficiency, intelligent logistics

Abstract: The article focuses on the evaluation of the impact of intelligent logistics elements on the overall efficiency of logistics processes. The main goal is to propose the concept of evaluation of changes in the logistics process, which will provide transparent results in the decision making process. Logistics activities represent a significant component of business costs, especially in the engineering and automotive industries, and it is therefore important to pay attention to both innovation and optimization. The implementation of intelligent elements in the field of logistics brings changes that will influence the entire logistics process. The article describes the sequence of steps as well as the methods used to evaluate the changes. Knowing the added value of planned changes will help prevent inappropriate investment and ensure the competitiveness of the company.

*doi:10.22306/atec.v5i3.61**Received: 30 Aug. 2019**Accepted: 25 Sep. 2019*

THE CONSTRUCTION OF THE FUNCTION OF THE ULTIMATE GOAL OF THE TECHNOLOGICAL PROCESS OF NON-AUTOCLAVED FOAM CONCRETE OBTAINING

(pages 59-62)

Sergey Fedosov

Academic of Russian Academy of Architecture and Building Sciences, Professor of Moscow State (National Research)
University of Civil Engineering, Yaroslavl Highway 26, 129337 Moscow, Russia,
fedosov-academic53@mail.ru (corresponding author)

Kseniia Domnina

Votkinsk branch of Izhevsk State Technical University, Shuvalova Street 1, 427430 Votkinsk, Udmurt Republic,
Russia, kseniya_domnina@bk.ru

Elena Pivarčiová

Technical University in Zvolen, Faculty of Technology, Department of Manufacturing and Automation Technology,
Študentská 26, 960 53 Zvolen, Slovakia, pivarciova@tuzvo.sk

Keywords: technological process, foam concrete, system, multi-factor approach, optimality criterion, calculation experiment

Abstract: This paper presents the method of solving the multicriteria problem of obtaining foam concrete with a required set of properties for each subsystem of the technological process. The General decision algorithm based on usage of lexicographic or "specified" method of purposeful search has been constructed.

*doi:10.22306/atec.v5i3.56**Received: 18 June 2019**Accepted: 30 Sep. 2019*

ENERGY RECOVERY OF BONE WASTE AS HEAT SOURCE

(pages 63-67)

Juraj Trnka

University of Žilina, Faculty of Mechanical Engineering, Department of Power Engineering, 010 26 Žilina, Univerzitná
8215/ Slovak Republic, EU, juraj.trnka@fstroj.uniza.sk, (corresponding author)

Jozef Jandačka

University of Žilina, Faculty of Mechanical Engineering, Department of Power Engineering, 010 26 Žilina, Univerzitná
8215/ Slovak Republic, EU, rektor@uniza.sk

Michal Holubčík

University of Žilina, Faculty of Mechanical Engineering, Department of Power Engineering, 010 26 Žilina, Univerzitná
8215/ Slovak Republic, EU, michal.holubcik@fstroj.uniza.sk

Keywords: bone wastes, incineration, ash content

Abstract: Modern food industry concerning meat producers produce high amounts of bone waste. Bones represent biggest portion of zoo-mass waste which must be destroyed for hygienically reasons. Bones also have long durability and it is taken long time to decomposing this material microbiologically. We already know way to destroy this waste by crushing and making meat and bone meal. However, feeding with meat-and-bone meal can cause animal diseases. Because of that we try to prove combustion as a suitable way to get rid of this waste. Everything can be cleansed by flames and combustion also release energy captured in bone tissue. This energy can be used as heat or transformed to electric current also. But the other side, bone burning also has its emission problems that this work is trying to solve.

doi:10.22306/atec.v5i3.57

Received: 23 July 2019

Accepted: 30 Sep. 2019

DESIGNING AN AUTONOMOUS SYSTEM FOR THE PURPOSE OF RECEIPT AND DISPATCH OF MATERIALS BASED ON MOBILE APPLICATION

(pages 69-72)

Michal Siget

Technical university of Košice, Faculty of Mining, Ecology, Process Control and Geotechnologies, Institute of Logistics and Transport, Park Komenského 14, 043 84, Kosice, Slovak Republic, EU, michal.siget@gmail.com

Keywords: Information systems, programming, RFID, logistics

Abstract: The article deals with the design of an autonomous system for the purposes of receiving and dispensing material based on a mobile application. The article contains analysis of automatic identification technologies, methods of electronic data exchange and description of the system itself. The automatic identification systems (SAI) have great importance in increasing company's responsiveness, quality increase and cost reduction. These systems could be used within various areas of human activities from food processing industry through heavy industry to wholesale.
