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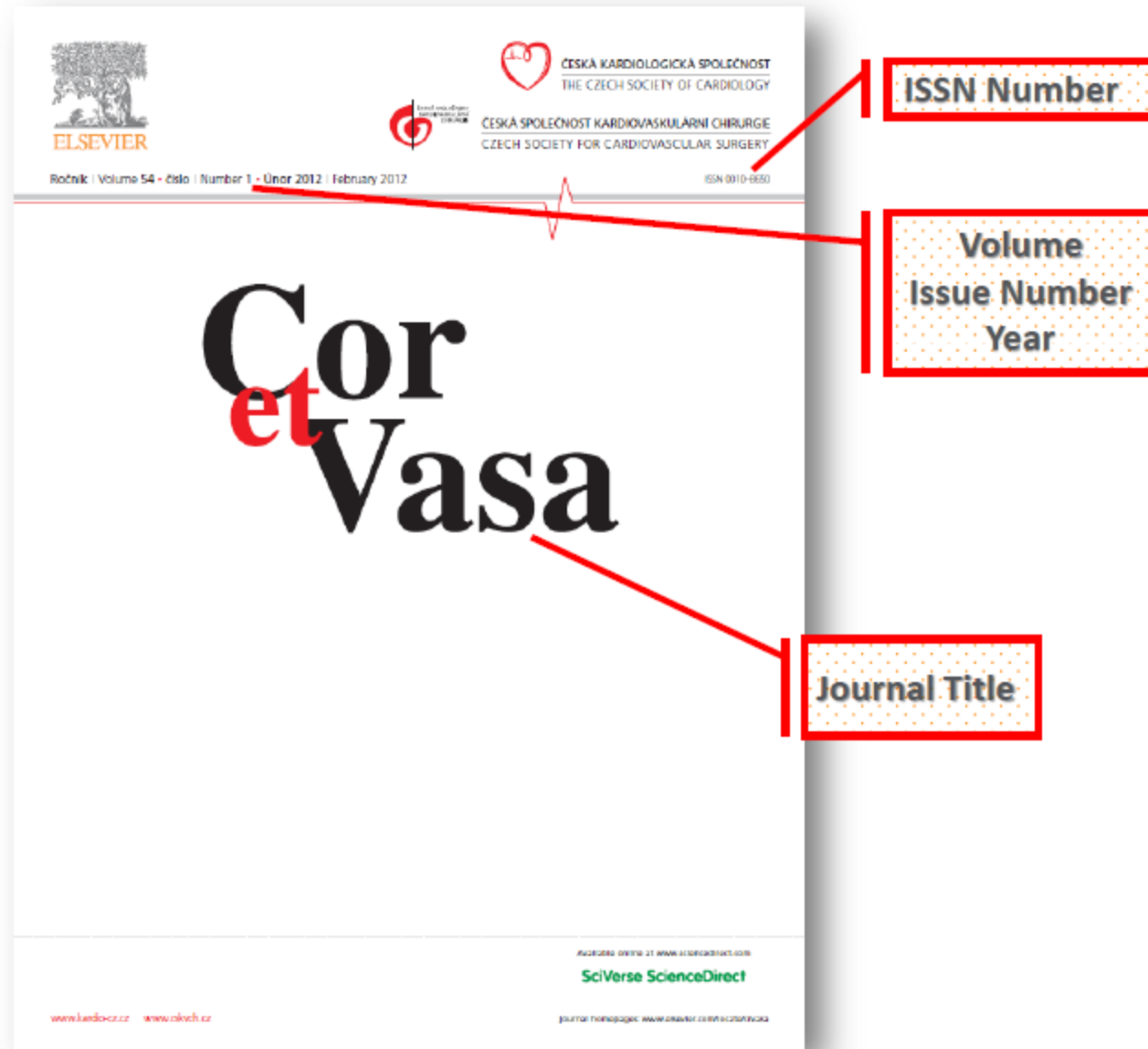
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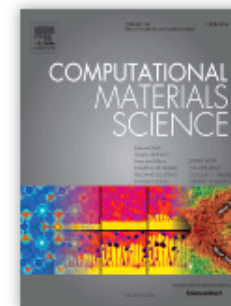
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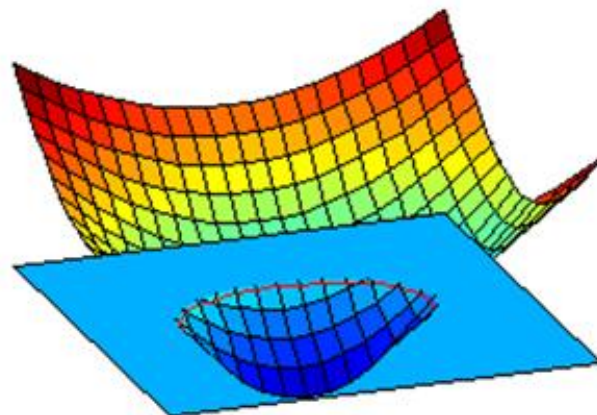
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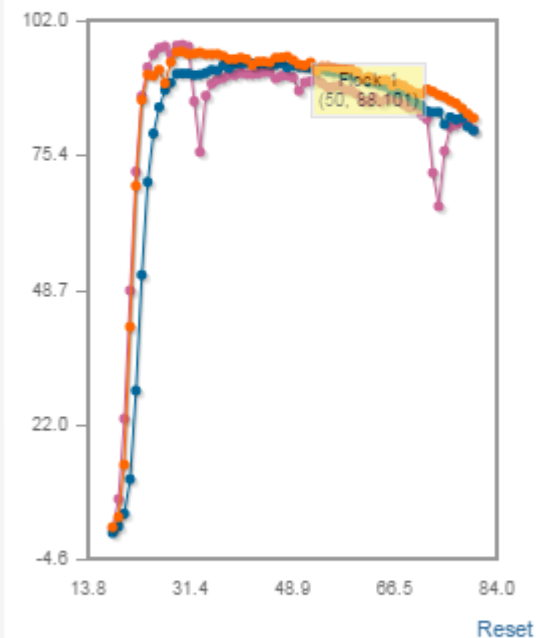
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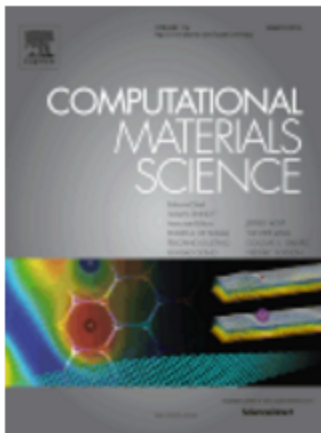
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RETRACTED: Matching pursuit-based approach

N. Ruiz-Reyes^a, P. Vera-Candeas^a, J. Curpián-Alonso^a, J.C. C...

^aElectronics and Telecommunication Engineering Department, University of...

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algorithm for SNR improvement in ultrasonic NDT", *Independent World...*
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the echoes issuing from the flaws to be detected. Therefore, it cannot be cancelled by classical time averaging or matched band-pass filtering techniques.

Many signal processing techniques have been utilized for signal-to-noise ratio (SNR) improvement in ultrasonic NDT of highly scattering materials. The most popular one is the split spectrum processing (SSP) [1–3], because it makes possible real-time ultrasonic test for industrial applications, providing quite good results. Alternatively to SSP, wavelet transform (WT) based denoising/detection methods have been proposed during recent years [4–8], yielding usually to higher improvements of SNR at the expense of an increase in complexity. Adaptive time-frequency analysis by basis pursuit (BP) [9,10] is a recent technique for decomposing a signal into an optimal superposition of elements in an over-complete waveform dictionary. This technique and some other related techniques have been successfully applied to denoising ultrasonic signals contaminated with grain noise in highly scattering materials [11,12], as an alternative to the WT technique, the computational cost of the BP algorithm being the main drawback.

In this paper, we propose a novel matching pursuit-based signal processing method for improving SNR in ultrasonic NDT of highly scattering materials, such as steel and composites. Matching pursuit is used instead of BP to reduce the complexity. Despite its iterative nature, the method is fast enough to be real-time implemented. The performance of the proposed method has been evaluated using both computer simulation and experimental results, even when the input SNR (SNR_{in}) is lower than 0dB (the level of echoes emitted by microstructures is above the level of the echoes).

space. We define the over-complete dictionary as a family $D = \{g_i; i=0,1,\dots,L\}$ of vectors in H , such as $\|g_i\| = 1$.

The problem of choosing functions $g_i[n]$ that best approximate the analysed signal $s[n]$ is computationally very complex. Matching pursuit is an iterative algorithm that offers sub-optimal solutions for decomposing $s[n]$ in terms of expansion functions chosen from a dictionary, where l^1 norm is used as the approximation metric because of its mathematical convenience. When a well-designed dictionary is used in matching pursuit, the non-linear nature of the algorithm leads to compact and relevant models.

In each step of the iterative procedure, vector $g_i[n]$ which gives the largest inner product with the analysed signal is chosen. The contribution of this vector is then subtracted from the signal and the process is repeated on the residual. At the m th iteration the residue is

$$r^m[n] = \begin{cases} s[n] & m=0, \\ r^{m-1}[n] + \alpha_{k(m)} g_{k(m)}[n], & m \neq 0, \end{cases} \quad (1)$$

where $\alpha_{k(m)}$ is the weight associated to optimum atom $g_{k(m)}[n]$ at the m th iteration.

The weight α_i^m associated to each atom $g_i[n] \in D$ at the m th iteration is introduced to compute all the inner products with the residual $r^m[n]$:

$$\alpha_i^m = \frac{\langle r^m[n], g_i[n] \rangle}{\langle g_i[n], g_i[n] \rangle} = \frac{\langle r^m[n], g_i[n] \rangle}{\|g_i[n]\|^2} = \langle r^m[n], g_i[n] \rangle. \quad (2)$$

The optimum atom $g_{k(m)}[n]$ (and its weight $\alpha_{k(m)}$) at the m th iteration are obtained as follows:

$$g_{k(m)}[n] = \underset{g_i[n] \in D}{\operatorname{argmin}} \|\langle r^m[n], g_i[n] \rangle\|^2 = \underset{g_i[n] \in D}{\operatorname{argmax}} |\alpha_i^m|. \quad (3)$$

The computation of correlations $\langle r^m[n], g_i[n] \rangle$ for highly scattering materials is computationally very complex. The computation of correlations $\langle r^m[n], g_i[n] \rangle$ for highly scattering materials is computationally very complex. The computation of correlations $\langle r^m[n], g_i[n] \rangle$ for highly scattering materials is computationally very complex.

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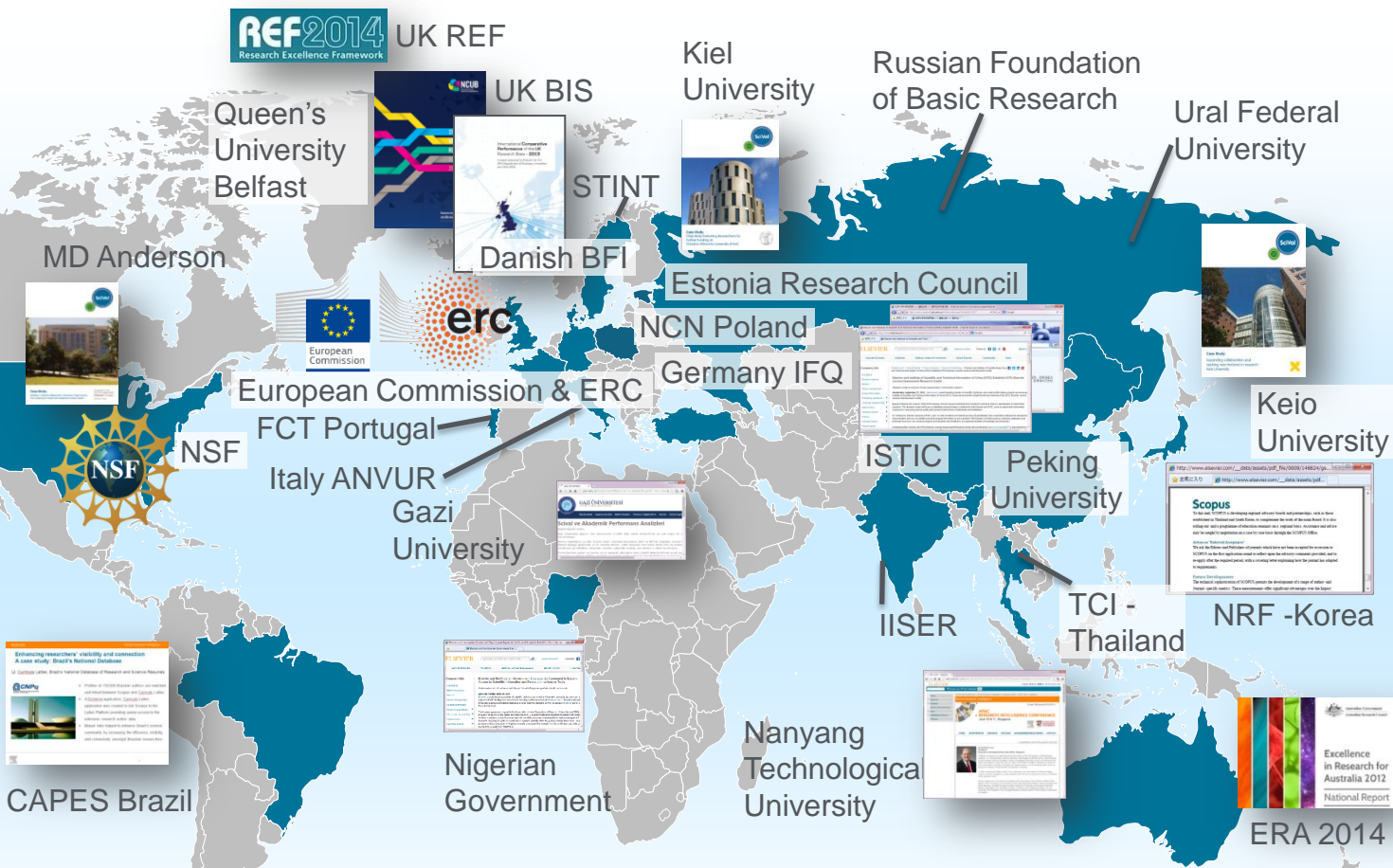
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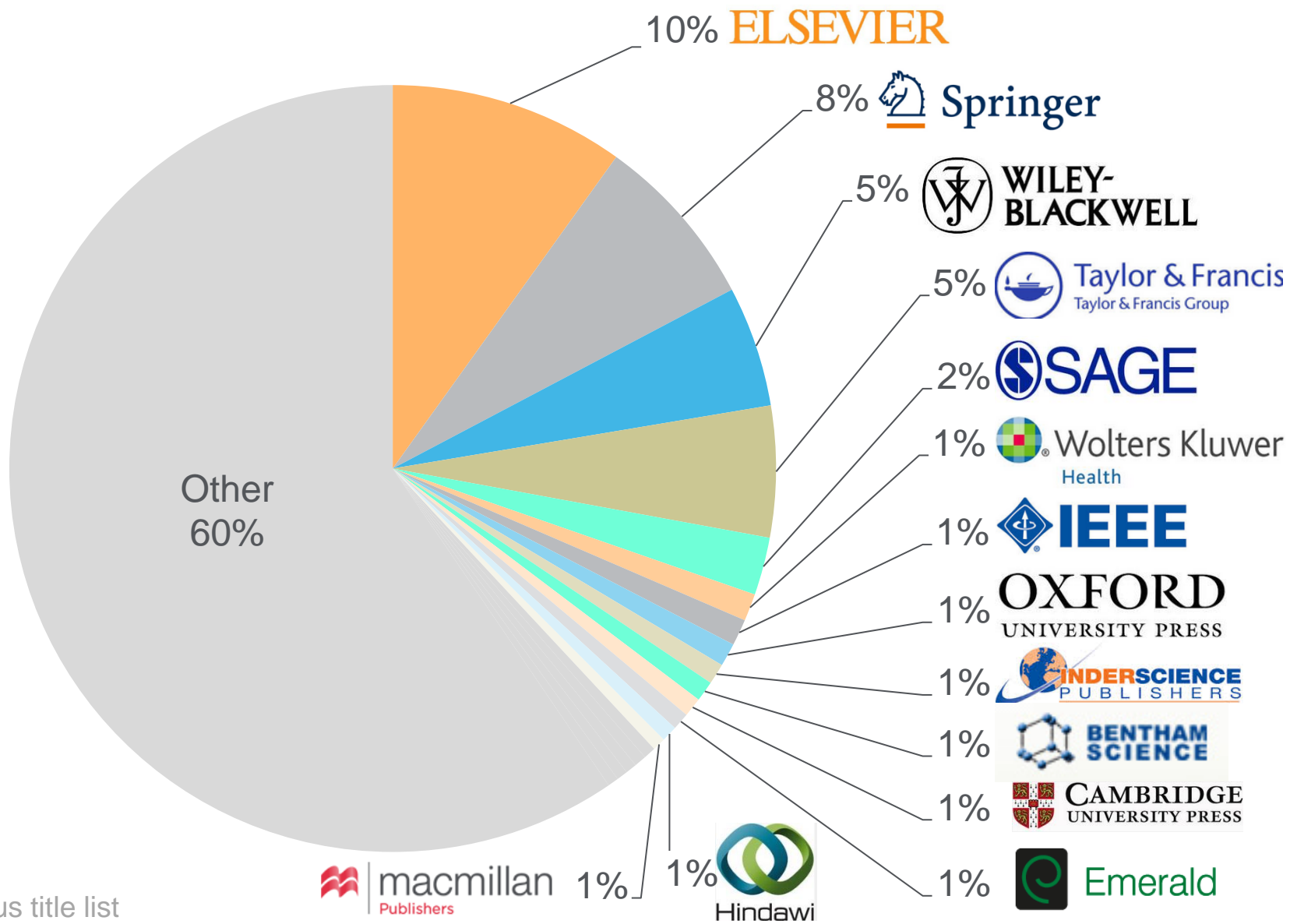


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PROCESSING AND COMPLEX USAGE OF MINERAL RAW MATERIALS

Title Copper-molybdenum ore beneficiation by flotation and bio-hydrometallurgical combination technology

Author Morozov V. V., Pestryak I. V., Baatarkhuu Zh., Khandmaa S.

Authors' Information Erdenet Mining Corporation (Erdenet, Mongolia): Baatarkhuu Zh., Chief Dresser, Doctor of Engineering
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Abstract The objective of the present study was to find flotation and bio-hydrometallurgical method and result of the studies, the indexes and parameter related with the grain size of the products, acidity pulp slurry. The recommended optimum condition to 75% content of mineral particles -74 µm in size concurrent feed of biomass and acid at the pulp developed combination scheme and dressing technology includes ore grinding, flotation of sulfide minerals dissolved copper and electrolysis of re-extraction column effluents.

Keywords Copper-molybdenum ore, flotation, processing of mineral raw materials, sorption extraction

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Copper-molybdenum ore beneficiation by flotation and bio-hydrometallurgical combination technology (Article)

Morozov, V.V.^a, Pestryak, I.V.^b, Baatarkhuu, Zh.^b, Khandmaa, S.^c

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Abstract

The objective of the present study was to find regular patterns in processing of complex copper-molybdenum ore by flotation and bio-hydrometallurgical method and to choose application conditions for combination of the methods. As a result of the studies, the indexes and parameters of acid and bio-hydrometallurgical leaching of middling products were related with the grain size of the products, acidity of the medium, leaching duration, and temperature and density of the pulp slurry. The recommended optimum conditions for flotation of middling products are pH range from 10.2 to 10.5 at 72 to 75% content of mineral particles -74 µm in size. The best performance of bacterium-acid leaching is reached at the concurrent feed of biomass and acid at the pulp slurry density of 50% and the medium temperature of 32-36°C. The developed combination scheme and dressing technology for middling products of copper-molybdenum ore bulk flotation includes ore grinding, flotation of sulfide minerals, bacterium leaching of flotation tailings, liquid-phase extraction of dissolved copper and electrolysis of re-extraction column effluents.

Author keywords

Bacterium-acid leaching; Combination schemes; Copper-molybdenum ore; Flotation; Processing of middling product; Sorption extraction

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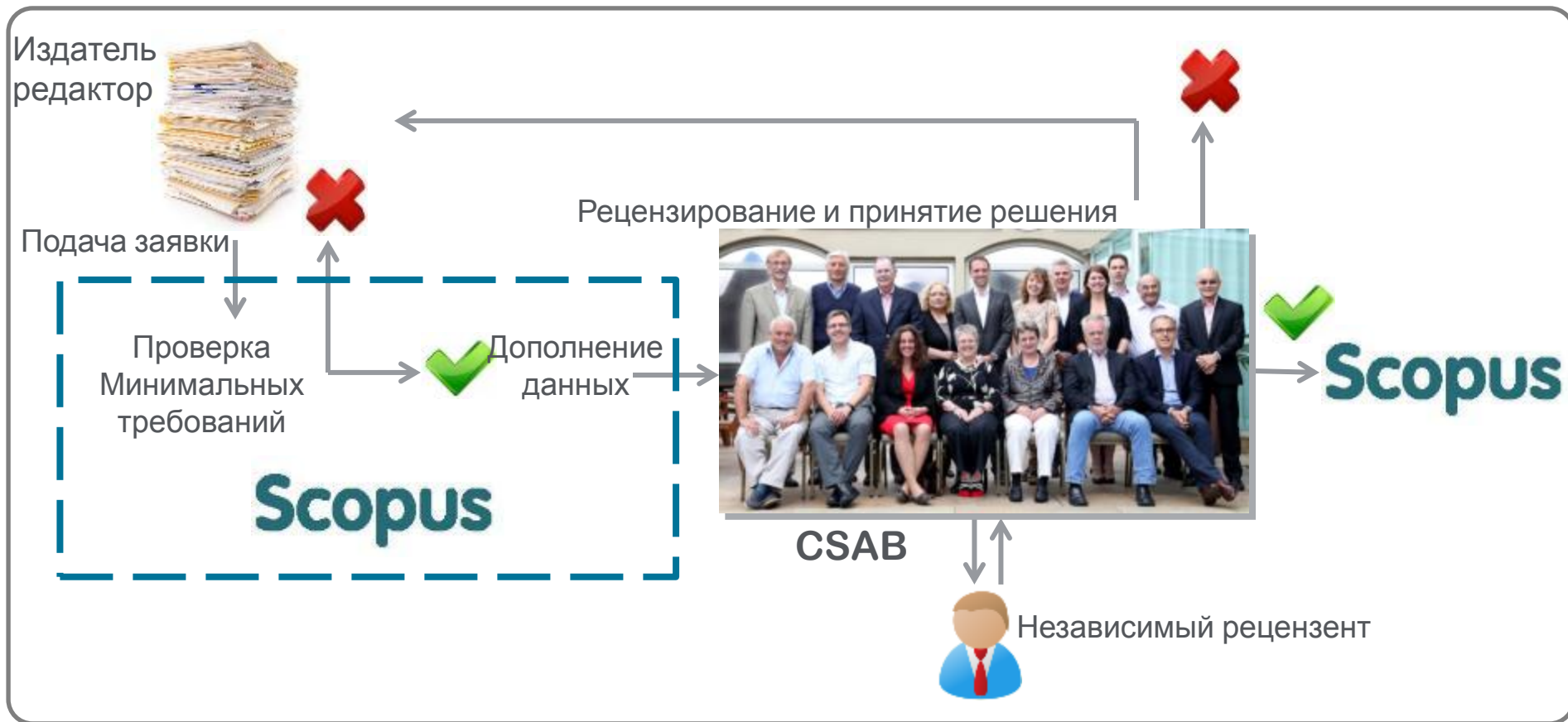


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On some properties of ring varieties, where isomorphic zero-divisor graphs of finite rings give isomorphic rings

Kuzmina, A.S. ✉

Abstract

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Denote by $\Gamma(R)$ the zero-divisor graph of an associative ring R . In this paper, we study varieties of associative rings, where an isomorphism of $\Gamma(R)$ and $\Gamma(S)$ implies an isomorphism of the rings R and S for any finite rings R, S .

Author keywords

Finite ring; Variety of associative rings; Zero-divisor graph

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О НЕКОТОРЫХ СВОЙСТВАХ МНОГООБРАЗИЙ КОЛЕЦ, В КОТОРЫХ КОНЕЧНЫЕ КОЛЬЦА ОДНОЗНАЧНО ОПРЕДЕЛЯЮТСЯ СВОИМИ ГРАФАМИ ДЕЛИТЕЛЕЙ НУЛЯ

А.С. КУЗЬМИНА

ABSTRACT. Denote by $\Gamma(R)$ the zero-divisor graph of an associative ring R . In this paper, we study varieties of associative rings, where an isomorphism of $\Gamma(R)$ and $\Gamma(S)$ implies an isomorphism of the rings R and S for any finite rings R, S .

Keywords: zero-divisor graph, variety of associative rings, finite ring.

1. ВВЕДЕНИЕ

В данной работе рассматриваются ассоциативные кольца (не обязательно коммутативные и не обязательно имеющие единицу).

Определение. *Графом делителей нуля кольца R* называется граф, вершинами которого являются все ненулевые делители нуля кольца (односторонние и двусторонние), причем две различные вершины x, y соединяются ребром тогда и только тогда, когда $xy = 0$ или $yx = 0$.

Обычно граф делителей нуля кольца R обозначается через $\Gamma(R)$. Мы также будем использовать это обозначение.

Понятие графа делителей нуля было введено в работе [4]. И. Бек ввел это понятие для коммутативного кольца и вершинами графа делителей нуля считал все элементы кольца. В статье [3] определение было изменено: в качестве

KUZMINA, A.S., ON SOME PROPERTIES OF RING VARIETIES, WHERE ISOMORPHIC ZERO-DIVISOR GRAPHS OF FINITE RINGS GIVE ISOMORPHIC RINGS.

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Работа выполнена при поддержке ФЦП «Научные и научно-педагогические кадры инновационной России» (проект 14.740.12.0834).

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