



„Annales Mathematicae Silesianae” is published by the Silesian University. The journal publishes original research papers in pure and applied mathematics.

EDITORIAL OFFICE

Instytut Matematyki  
Uniwersytet Śląski  
ul. Bankowa 14  
40-007 Katowice  
Poland



NR 3031

# Annales Mathematicae Silesianae

---

26 (2012)

---

WYDAWNICTWO UNIwersYTETU ŚLĄSKIEGO  
KATOWICE 2013



Redaktor serii: Matematyka

**Zygfryd Kominek**

KOMITET REDAKCYJNY: **Karol Baron, Aleksander Błaszczyk, Jan Cholewa,  
Tomasz Dłotko, Roman Ger, Zygfryd Kominek,  
Olga Macedońska-Nosalska, Jerzy Mioduszeowski,  
Władysław Narkiewicz, Szymon Plewik, Maciej Sablik,  
Kazimierz Szymiczek**

SEKRETARZ REDAKCJI: **Justyna Sikorska**

Publikacja będzie dostępna — po wyczerpaniu nakładu — w wersji internetowej:

Śląska Biblioteka Cyfrowa  
**[www.sbc.org.pl](http://www.sbc.org.pl)**

## Contents

<span style="border: 1px solid black; padding: 2px;">ANDRZEJ PELCZAR</span> : Description of mathematics. Description in mathematics. Mathematics as a way of describing .....	7
MOHAMED AKKOUCHI, VALERIU POPA: Altering distances and fixed point results for tangential hybrid pairs of mappings .....	25
ANTONIO AZÓCAR, KAZIMIERZ NIKODEM, GARI ROA: Fejér-type inequalities for strongly convex functions .....	43
MOHAMED EL HAMMA, RADOUAN DAHER: Generalization of Titchmarsh's theorem for the Bessel transform in the space $L_{p,\alpha}(\mathbb{R}_+)$ ..	55
AGATA NOWAK: On some generalization of the Gołab–Schinzel equation .....	61
RCHID RABAOUI, ADEL SADDI: On the orbit of an $A$ - $m$ -isometry..	75
WIRGINIA WYROBEK-KOCHANIEK: Orthogonally Pexider functions modulo a discrete subgroup .....	93
Report of Meeting. The Twelfth Debrecen–Katowice Winter Seminar on Functional Equations and Inequalities, Hajdúszoboszló (Hungary), January 25–28, 2012 .....	101

## Information for Authors

Submission of a manuscript implies that the work described has not been published before, that it is not under consideration for publication elsewhere, and that it will not be published elsewhere unless it has been rejected by the editors of “*Annales Mathematicae Silesianae*”.

Manuscript should be written in English and sent either in hardcopy by regular mail, or electronically via e-mail. In the first case Authors are asked to send their papers in duplicate to the Editorial Office: Instytut Matematyki, Uniwersytet Śląski, Bankowa 14, 40-007 Katowice, Poland, and in the latter case – to send a pdf file as an e-mail attachment to: [annales@math.us.edu.pl](mailto:annales@math.us.edu.pl)

An abstract of not more than 15 lines should describe the main results of the paper. Included into the footnotes of the first page should be the Mathematics Subject Classification (2010). Key words and phrases should follow. It is necessary to indicate an abbreviated title which will be used as a running head (up to 60 characters including spaces). Figures should be prepared in a form suitable for direct reproduction. Sending EPS or PNG files will be most helpful. References should be numbered and arranged in alphabetical order, or in the case of the same author, chronologically. The style and abbreviations should follow the “Mathematical Reviews”.

Authors affiliations, including complete postal address and e-mail addresses, should be given at the end of the manuscript.

On acceptance of the paper Authors will be asked to send the final version of the paper as the  $\text{\LaTeX}$  and pdf files to the address: [annales@math.us.edu.pl](mailto:annales@math.us.edu.pl)

Copies of all manuscripts should be retained by the Authors. In case of several coauthors indicate one author as the corresponding author. The Author will obtain one set of proofs for corrections after acceptance of the manuscript.

After publishing of the volume all the papers will be available online on the pages of the Silesian Digital Library [www.sbc.org.pl](http://www.sbc.org.pl). Moreover, all the indices of “*Annales Mathematicae Silesianae*” and some more information on our journal are accessible on the homepage:

<http://www.math.us.edu.pl/annales>

Projektant okładki

Gerard Labus

Redaktor

Barbara Todos-Burny

Redaktor techniczny

Barbara Arenhövel

Copyright © 2013

by Wydawnictwo Uniwersytetu Śląskiego

Wszelkie prawa zastrzeżone

**ISSN 0208-6336**

**ISSN 0860-2107**

Wydawca

**Wydawnictwo Uniwersytetu Śląskiego**  
**ul. Bankowa 12B, 40-007 Katowice**

[www.wydawnictwo.us.edu.pl](http://www.wydawnictwo.us.edu.pl)

e-mail: [wydawus@us.edu.pl](mailto:wydawus@us.edu.pl)

---

Wydanie I. Nakład: 110 + 50 egz. + 25 nadb. Ark. druk. 7,5.  
Ark. wyd. 9,0. Papier offset. kl. III, 90 g Cena 12 zł (+ VAT)

---

Druk i oprawa: PPHU TOTEM s.c., M. Rejnowski, J. Zamiara  
ul. Jacewska 89, 88-100 Inowrocław