



Cambridge Core

The new home of
Cambridge Journals
cambridge.org/core

Cambridge **Core**



CAMBRIDGE
UNIVERSITY PRESS

INFORMATION FOR AUTHORS

The *Bulletin of the Australian Mathematical Society* aims at quick publication of original research in all branches of mathematics. To ensure speedy publication, only articles which are sufficiently well presented, able to be published without revision, and which are judged by the Editor (often in consultation with an Associate Editor) to be competitive are refereed. This policy is in the interests of authors, as a quick rejection is better than a slow rejection. The *Bulletin* receives more than five times the material that can be published, therefore there are many commendable papers not accepted. Editorial decisions on acceptance or otherwise are taken quickly, normally within a month of receipt of the paper. Papers are accepted only after peer review.

Manuscripts are accepted for review with the understanding that the same work is not concurrently submitted elsewhere. For a paper to be acceptable for publication, not only should it contain new and interesting results, but also

- (i) the exposition should be clear and attractive, and
- (ii) the manuscript should be in publishable form, without revision.

Further information regarding these requirements may be found through our website www.austms.org.au/Bulletin. Authors are asked to avoid, as far as possible, the use of mathematical symbols in the title.

Articles should be prepared in \LaTeX using $\mathcal{A}\mathcal{M}\mathcal{S}$ - \LaTeX packages and submitted as a PDF file via our journal management system, at www.austms.org.au/Publications/Submissions/BAustMS. This permits authors to track their papers through the editorial process. Recent versions of \TeX are able to produce PDF files directly. A \LaTeX class file for the *Bulletin* can be downloaded from the website. Authors who need assistance may email the secretary of the *Bulletin* at editor@bulletin.austms.org.au.

Authors are advised to keep copies of all files of the submitted article; the *Bulletin* will not accept responsibility for any loss.

EDITORIAL POLICY

1. References. Arrange references alphabetically (by surname of the first author) and cite them numerically in the text. Ensure the accuracy of the references: authors' names should appear as in the work quoted. Include in the list of references only those works cited, and avoid citing works which are in preparation or submitted. Where the work cited is not readily accessible (for example, a preprint) a copy of the article should be included with your submission.

2. Abstracts.

1. Each paper must include an abstract of not more than 150 words, which should contain a brief but informative summary of the contents of the paper, but no inessential details.
2. The abstract should be self-contained, but may refer to the title.
3. Specific references (by number) to a section, proposition, equation or bibliographical item should be avoided.

3. Subject Classification and Key Words. Authors should include a few key words and phrases and one or more classification numbers, following the American Mathematical Society 2010 Mathematics Subject Classification for all codes. Details of this scheme can be found on the web at www.ams.org/msc.

4. Abstracts of PhD Theses. The *Bulletin* endeavours to publish abstracts of all accepted Australasian PhD theses in mathematics. One restriction, however, is that the abstract must be received by the Editor within six months of the degree being approved.



This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organisation established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Table of Contents

| | |
|--|-----|
| A finite-to-one map from the permutations on a set <i>Sonpanov, N. & Vejvajiva, P.</i> | 177 |
| On a problem of Erdős and Mahler concerning continued fractions <i>Lelis, J. & Marques, D.</i> | 183 |
| Remarks on the mixed joint universality for a class of zeta functions <i>Kačinskaitė, R. & Matsumoto, K.</i> | 187 |
| On pairs of Goldbach–Linnik equations <i>Kong, Y. & Liu, Z.</i> | 199 |
| Fixed elements of noninjective endomorphisms of polynomial algebras in two variables <i>Li, Y. & Yu, J.-T.</i> | 209 |
| A prime essential ring that generates a special atom <i>Wahyuni, S., Wijayanti, I. E. & France-Jackson, H.</i> | 214 |
| Semipermutability in generalised soluble groups <i>Ballester-Bolinches, A., Beidleman, J. C. & Ialenti, R.</i> | 219 |
| Logarithmic coefficients of some close-to-convex functions <i>Ali, Md F. & Vasudevarao, A.</i> | 228 |
| Some normality criteria and a counterexample to the converse of Bloch’s principle <i>Charak, K. S. & Sharma, S.</i> | 238 |
| The Hilbert–Schmidt norm of a composition operator on the Bergman space <i>Yuan, C. & Zhou, Z.-H.</i> | 250 |
| On the real-valued general solutions of the d’Alembert equation with involution <i>Chung, J., Choi, C.-K. & Chung, S.-Y.</i> | 260 |
| Two new generalised hyperstability results for the Drygas functional equation <i>Aiemsomboon, L. & Sintunavarat, W.</i> | 269 |
| Characterisations of partition of unities generated by entire functions in \mathbb{C}^d <i>Christensen, O., Kim, H. O. & Kim, R. Y.</i> | 281 |
| Mappings of conservative distances in p-normed spaces ($0 < p \leq 1$) <i>Huang, X. & Tan, D.</i> | 291 |
| Comparing the generalised roundness of metric spaces <i>Levy-Moore, L., Nichols, M. & Weston, A.</i> | 299 |
| Structure topology and extreme operators <i>Cabrera-Serrano, A. M. & Mena-Jurado, J. F.</i> | 315 |
| Operator quasilinearity of some functionals associated with Davis–Choi–Jensen’s inequality for positive maps <i>Dragomir, S. S.</i> | 322 |
| A purely metric proof of the Caristi fixed point theorem <i>Kozłowski, W. M.</i> | 333 |
| Algebraic and geometric properties of lattice walks with steps of equal length <i>Kołodziejczyk, K. & Salapata, R.</i> | 338 |
| Abstracts of PhD Theses | |
| Topology of complex networks: models and analysis <i>Carstens, C. J.</i> | 347 |
| Mathematical modelling in nanotechnology using calculus of variations <i>Alshammari, N. A.</i> | 350 |