

INFORMATION FOR AUTHORS

The Bulletin of the Australian Mathematical Society aims at quick publication of original research in all branches of mathematics. The Editors receive more than three times as much material as can be published in the BULLETIN; many meritorious papers can, therefore, not be accepted. Authors are asked to avoid, as far as possible the use of mathematical symbols in the title. Manuscripts are accepted for review with the understanding that the same work is not concurrently submitted elsewhere.

To ensure speedy publication, editorial decisions on acceptance or otherwise are taken quickly, normally within a month of receipt of the paper. Papers are accepted only after a careful evaluation by the Editor and an Associate Editor or other expert in the field. As even minor revisions are generally not permitted, authors should read carefully all the details listed below. 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;
- (ii) the manuscript should be in publishable form, without revision.

Authors should submit three clean, high quality copies to

The Editorial Office, Bulletin of the Australian Mathematical Society,
Department of Mathematics, The University of Queensland,
Queensland 4072, Australia.

Unless requested at the time, material submitted to the BULLETIN will usually not be returned.

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 photocopy of the title page and relevant sections of the copy that you have used should be included with your submission.

2. Abstracts.

1. Each paper must include an abstract of not more than 200 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. Authors should include in their papers one or more classification numbers, following the 2000 Mathematics Subject Classification. Details of this scheme can be found in each Annual Index of Mathematical Reviews or on the web at <http://www.ams.org/msc>.

4. Abstracts of Ph.D. Theses. The Bulletin endeavours to publish abstracts of all accepted Australasian Ph.D. theses in mathematics. One restriction, however, is that the abstract must be received by the Editor within 6 months of the degree being approved.

5. Electronic Manuscripts. The Bulletin is produced using $\mathcal{A}_{\mathcal{M}}\mathcal{S}\text{-}\mathcal{T}_{\mathcal{E}}\mathcal{X}$. Authors who are able to do so are invited to prepare their manuscripts using $\mathcal{T}_{\mathcal{E}}\mathcal{X}$. (We accept Plain $\mathcal{T}_{\mathcal{E}}\mathcal{X}$, $\mathcal{A}_{\mathcal{M}}\mathcal{S}\text{-}\mathcal{T}_{\mathcal{E}}\mathcal{X}$ or $\mathcal{L}_{\mathcal{A}}\mathcal{T}_{\mathcal{E}}\mathcal{X}$.) Hard copy only should be submitted for assessment, but if the paper is accepted the author will be asked to send the text on an IBM PC compatible diskette or via e-mail to ams@maths.uq.edu.au. [Typed manuscripts are, of course, still acceptable.]

Bulletin of the Australian Mathematical Society

On the arc index of an adequate link	
Chan-Young Park and Myoungsoo Seo	177
Sharp constants in higher-order heat kernel bounds	
Nick Dungey	189
Existence of solutions for a vector saddle point problem	
K.R. Kazmi and S. Khan	201
Conformally flat hypersurfaces with constant Gauss-Kronecker curvature	
Filip Defever	207
Formations, bihomomorphisms and natural transformations	
Andrew Ensor	217
On a diophantine equation	
Florian Luca	241
The Tarski-Kantorovitch principle and the theory of iterated function systems	
Jacek Jachymski, Lesław Gajek and Piotr Pokarowski	247
Verifying the independence of partitions of a probability space	
S.B. Mulay and C.G. Wagner	263
A degree one Borsuk-Ulam theorem	
Danny Calegari	267
Subdifferentials of convex functions and sigma-cyclic monotonicity	
Aris Daniilidis	269
On compact group extension of Bernoulli shifts	
Youngho Ahn	277
Generalised Bernoulli polynomials and series	
Clément Frappier	289
A note on asymptotic uniqueness for some nonlinearities which change sign	
E.N. Dancer	305
On the volume of lattice manifolds	
Krzysztof Kołodziejczyk	313
Arithmetic on certain families of elliptic curves	
Andrzej Dąbrowski and Małgorzata Wieczorek	319
On Terai's conjecture concerning Pythagorean numbers	
Maohu Le	329
A formula for the Euler characteristic of line singularities on singular spaces	
Guangfeng Jiang	335
Asymptotic behaviour for an almost-orbit of nonexpansive semigroups in Banach spaces	
Jong Kyu Kim and Gang Li	345

ABSTRACTS OF AUSTRALASIAN Ph.D. THESES

Metrization and manifolds

A.M. Mohamad	351
--------------	-----