

The

Michigan Mathematical Journal

EDITOR

Douglas G. Dickson

ASSOCIATE EDITORS

Morton Brown

Daniel M. Burns, Jr.

F. W. Gehring

Melvin Hochster

Hugh L. Montgomery

M. S. Ramanujan

Peter Scott

Michael I. Weinstein

ASSISTANT EDITOR

Mary L. Thompson

BUSINESS MANAGER

Robert W. Puster

DEPARTMENT OF MATHEMATICS

THE UNIVERSITY OF MICHIGAN

ANN ARBOR, MICHIGAN, U.S.A.

ISSN 0026-2285

The Michigan Mathematical Journal is published by the Department of Mathematics at the University of Michigan and endeavors to publish significant research articles in all areas of mathematics. One volume is published each year, and each volume consists of three issues. The subscription price is \$60 per volume (postage included); single issues may be purchased for \$20. Subscriptions intended for the private use of individuals are available at the reduced rate of \$30 per volume.

Subscription orders should be sent to the Business Manager, Michigan Mathematical Journal, Department of Mathematics, University of Michigan, Ann Arbor, Michigan, 48109. All subscriptions must be prepaid in U.S. funds. The Journal will accept payment for subscriptions one, two, or three years in advance. Checks and money orders should be made payable to the Michigan Mathematical Journal.

Volumes 12 through 23 (1965–1976) consist of four issues per volume; earlier volumes vary in size from one to three issues. Volumes 12 through 38 may be purchased from the publisher at the price of \$60 per volume. Volumes 1 through 9 are no longer available from the University of Michigan; they may be purchased from the Johnson Reprint Corporation, 111 Fifth Avenue, New York, N.Y., 10003. Volumes 10 and 11 are not available.

To submit a paper for publication, an author should send two copies of the manuscript to the Editor, Michigan Mathematical Journal, University of Michigan, Ann Arbor, Michigan, 48109. The submission of a paper implies the author's assurance that it has not been copyrighted, published, or submitted for publication elsewhere. Preference will be given to manuscripts between ten and forty pages in length. All authors of papers accepted for publication will be required to sign a transfer of copyright agreement.

To help defray the cost of publication of the journal, page charges of \$40 per printed page will be billed to the author's institution. If the institution is unable to pay any charges, the author will be asked to pay a nominal fee for 100 offprints; joint authors will share the 100 offprints.

Authors should strive for expository clarity and good literary style. Manuscripts lacking in these respects will not be published. Manuscripts submitted for publication should be neatly typed on one side of the page only, double spaced (including references), with generous margins. Diagrams should be drawn with black India ink on separate sheets of glossy white paper and be suitable for photographic reproduction. Hand inserted symbols should be well-spaced and legible; unusual symbols and complicated combinations of symbols should be avoided. Acknowledgments of grant support should be placed after the references, which should be in alphabetical–chronological order. References to articles and books should be written in the standard form with the standard abbreviations established by the Mathematical Reviews.

Copyright © the Regents of The University of Michigan,
A Michigan Constitutional Corporation, 1992

Contents

	PAGE
Quasiconformal Extension and Univalence Criteria <i>Delin Tan</i>	163
Two Problems in Multidimensional Prediction Theory <i>Jean-Pierre Gabardo</i>	173
The Inclusion of Classical Families in the Closure of the Universal Teichmüller Space <i>Stephen D. Casey</i>	189
Minimizing the Cardinality of the Fixed Point Set for Self-Maps of Surfaces with Boundary <i>Michael R. Kelly</i>	201
The Groups of Real Genus 4 <i>Coy L. May</i>	219
Isomorphic Operator Algebras and Conjugate Inner Functions <i>T. B. Hoover</i>	229
Besov Spaces, Sobolev Spaces, and Cauchy Integrals <i>Patrick Ahern & William Cohn</i>	239
Dual Operator Algebras and a Hereditary Property of Minimal Isometric Dilations <i>George Exner & Il Bong Jung</i>	263
Distance-Decreasing Functions on the Hyperbolic Plane <i>H. S. Bear</i>	271
Common Fixed Points of Commuting Holomorphic Mappings in the Product of n Hilbert Balls <i>Itai Shafrir</i>	281
Zero Sets, Interpolating Sequences, and Cyclic Vectors for Dirichlet Spaces <i>Kit C. Chan & Allen L. Shields</i>	289
Rational Powers of Generators of Möbius Groups <i>John R. Parker</i>	309
Equivariant Poincaré Duality <i>S. R. Costenoble & S. Waner</i>	325
Extension Domains for A_p Weights <i>Peter J. Holden</i>	353

