

Bulletin of the Iranian Mathematical Society

The Bulletin of the Iranian Mathematical Society is published six times a year. It publishes original research papers and invited survey articles in all areas of mathematical sciences, preferably accessible to a broad public.

Submissions: Manuscripts must be submitted via the online submission of BIMS. Upon acceptance, all papers should be prepared in \LaTeX (in the style of BIMS). Manuscripts under consideration for the bulletin, should not be published or submitted for publication elsewhere.

Preparation of manuscripts: An abstract of 150 words or less, AMS *Mathematical Subject Classification* and *Keywords* clarifying the subject of the manuscript are required. The papers should bear the full names and addresses of all authors and their e-mails. References should be given in alphabetical order with the following format: a) to books - author, title, publisher, location, year of publication; b) to articles in periodicals or collections - author, title of the article, title of the periodical (collection), volume, year, pagination. Abbreviations of titles of periodicals and collections should be given following *Mathematical Reviews*.

Indexing/Abstracting The Bulletin of the Iranian Mathematical Society is indexed/abstracted in the following:

- Science Citation Index Expanded (also known as SciSearch)
- Journal Citation Reports/Science Edition
- Mathematical Reviews
- Zentralblatt MATH
- Directory of Open Access Journals (DOAJ)
- Islamic World Science Citation (ISC)
- SCOPUS
- EBSCO

Subscription: Please contact the Editorial Office for subscription information.

Exchange: Inquires for journal exchanges are requested to contact the Editorial Office.

Editorial Board

- A. Abdollahi, Shiraz Univ., Shiraz, abdollahi@shirazu.ac.ir
A. Abkar, Imam Khomeni International Univ., Qazvin, abkar@sci.ikiu.ac.ir
A. Aghajani, Iran Univ. of Science and Tech., Tehran, aghajani@iust.ac.ir
M. Amini, Tarbiat Modares Univ., Tehran, mamini@modares.ac.ir
A. Armandnejad, Vali-e-Asr Univ. of Rafsanjan, Rafsanjan, armandnejad@vru.ac.ir
S. Azam, Univ. of Isfahan, Isfahan, azam@sci.ui.ac.ir, saeidazam@yahoo.com
H. R. Ebrahimi Vishki, Ferdowsi Univ. of Mashhad, Mashhad, vishki@um.ac.ir
S. Effati, Ferdowsi Univ. of Mashhad, Mashhad, s-effati@um.ac.ir
E. Eftekhary, IPM, Tehran, eaman@ipm.ir
A. Ghaffari, Semnan Univ., Semnan, aghaffari@semnan.ac.ir
F. H. Ghane, Ferdowsi Univ. of Mashhad, Mashhad, ghane@math.um.ac.ir
M. Hadizadeh Yazdi, K. N. Toosi Univ. of Tech., Tehran, hadizadeh@kntu.ac.ir
H. Hajiabolhassan, Shahid Beheshti Univ., Tehran, hhaji@sbu.ac.ir
S. Hejazian, Ferdowsi Univ. of Mashhad, Mashhad, hejazian@um.ac.ir
D. Khojasteh Salkuyeh, Univ. of Guilan, Rasht, khojasteh@guilan.ac.ir
M. R. Koushesh, Isfahan Univ. of Tech., Isfahan, koushesh@cc.iut.ac.ir
H. Mohebi, Shahid Bahonar Univ. of Kerman, Kerman, hmohebi@mail.uk.ac.ir
H. Mousavi, Univ. of Tabriz, Tabriz, hmousavi@tabrizu.ac.ir
T. Nikazad, Iran Univ. of Science and Tech., Tehran, tnkazad@iust.ac.ir
S. Saeidi, University of Kurdistan, Sanandaj, sh.saeidi@uok.ac.ir
M. Soleimani-damaneh, Univ. of Tehran, Tehran, soleimani@khayam.ut.ac.ir
B. Yahaghi, Golestan Univ., Gorgan, bamdad5@hotmail.com
R. Zaare-Nahandi, Univ. of Tehran, Tehran, rahimzn@ut.ac.ir

Editor-in-Chief

Hamid Reza Ebrahimi Vishki
Ferdowsi Univ. of Mashhad
P.O. Box: 91775-1159
Mashhad, Iran

Managing Editor

Shirin Hejazian
Ferdowsi Univ. of Mashhad
P.O. Box: 91775-1159
Mashhad, Iran

Style-Language Editor

Ali Abkar
Imam Khomeini Int. Univ.
P.O. Box 34149-16818
Qazvin, Iran

Advisory Editorial Board

Mehdi Behzad

Department of Mathematics, Shahid Beheshti Univ., Tehran, Iran,
mbehzad@sharif.ac.ir

Mehdi Radjabalipour

Department of Mathematics, Shahid Bahonar Univ. of Kerman, Kerman, Iran,
radjab45@mail.uk.ac.ir

Heydar Radjavi

Department of pure Mathematics, Univ. of Waterloo, Waterloo, Ontario, Canada N2L 3G1,
hradjavi@math.uwaterloo.ca

Freydoon Shahidi

Department of Mathematics, Purdue Univ., West Lafayette, IN 47907, USA,
shahidi@math.purdue.edu

Cumrun Vafa

Lyman Lab of Physics, Harvard Univ., Cambridge, MA 02138, USA,
vafa@string.harvard.edu

Associate Editors

Mohammad Asadzadeh: Numerical Analysis, Partial Differential Equations

Department of Mathematics, Chalmers University of Technology, SE-412 96 Gothenburg,
Sweden, mohammad@math.chalmers.se

Fariborz Azarpanah: Topology, Rings of Continuous Functions

Department of Mathematics, Shahid Chamran Univ. of Ahvaz, Ahvaz, Iran, azarpanah@ipm.ir

Rama Cont: Probability, Stochastic Analysis, Stochastic Processes, Numerical Analysis of
Partial Differential Equations, Simulation

Laboratoire de Probabilités et Modèles Aléatoires CNRS - Université Paris VI 175 rue du
Chevaleret F 75013 Paris, France, rama.con@upmc.fr

Mohammad Reza Darafsheh: Group Theory, Combinatorics, Representation Theory of
Finite Groups

Department of Mathematics, University of Tehran, P. O. Box 14155-6455 Tehran, Iran, daraf-
sheh@ut.ac.ir

Behzad Djafari-Rouhani: Nonlinear Functional Analysis

University of Texas at El Paso, USA, behzad@utep.edu

Abbas Edalat: Mathematical Aspects of Computer Science, O.D.E. via Computer Science

Department of Computing, Imperial College, London SW7 2BZ, UK, ae@doc.ic.ac.uk

Ali Enayat: Mathematical Logic, Set Theory

Department of Mathematics and Statistics, American Univ., 4400 Massachusetts Ave, NW,
Washington, DC 20016-8050, USA, enayat@american.edu

Paul Ernest: Mathematical Education

School of Education & LL, Univ. of Exeter, Heavitree Road, Exeter EX1 2LU, UK,
p.ernest@ex.ac.uk

Jost-Hinrich Eschenburg: Differential Geometry

Institut für Mathematik, Universität Augsburg, D-86135 Augsburg, Germany,
eschenburg@math.uni-augsburg.de

Samad Hedayat: Statistics, Block Designs and Coding Theory
Department of Mathematics, Statistics & Computer Science (M/C 249), Univ. of Illinois at Chicago, 851 South Morgan Street, Chicago, Illinois 60607-7045, USA, hedayat@uic.edu

Bernhard Keller: Representation Theory, Homological Algebra, Cluster Algebra
Université Paris Diderot, Paris 7, Paris, France, keller@math.jussieu.fr

Masoud Khalkhali: Noncommutative Geometry, Cyclic Cohomology, Operator Algebras, Mathematical Physics
Department of Mathematics, University of Western Ontario, London, Ontario N6A 5B7, Canada, masoud@uwo.ca

Anthony To-Ming Lau: Harmonic Analysis
Department of Mathematical & Statistical Sciences, University of Alberta, Canada, tlau@math.ualberta.ca

Javad Mashreghi: Functions of a Complex Variable, Two Dimensional Potential Theory, Operator Theory
Université Laval, Québec, Canada, javad.mashreghi@mat.ulaval.ca

Maryam Mirzakhani: Teichmüller Theory, Ergodic Theory
Stanford University, USA, mmirzakh@math.stanford.edu

Jamshid Moori: Finite Group, Representation Theory, Combinatorics, Graphs and Codes
School of Mathematical Sciences, University of KwaZulu-Natal, P Bag X01 Scottsville 3209, Pietermaritzburg, South Africa, moori@ukzn.ac.za

Jean-Eric Pin: Theoretical Computer Science, Automata Theory
LIAFA, Université Paris VII, Case 7014, 2, place Jussieu, 75251 Paris Cedex 05, France, Jean-Eric.Pin@liafa.jussieu.fr

Bruno Poizat: Mathematical Logic, Model Theory, Complexity of Algorithms
Institut Girard Desargues, Université Claude Bernard (Lyon-1), Mathématiques, Batiment 101, 43, Boulevard du 11 Novembre 1918, 69622 Villeurbanne-cedex, France, poizat@desargues.univ-lyon1.fr

Cheryl E. Praeger: Combinatorics, Finite Group
School of Mathematics and Statistics, Univ. of Western Australia, 35 Stirling Highway, Crawley WA 6009, Australia, praeger@maths.uwa.edu.au

Fraydoun Rezakhanlou: Probability Theory
Department of Mathematics, University of California, Berkeley, CA 94720, USA, rezakhan@math.berkeley.edu

Henrik Shahgholian: Ordinary and Partial Differential Equations
Department of Mathematics, Royal Institute of Technology, SE-100 44 Stockholm, Sweden, henriksh@math.kth.se

Ali Taheri: Partial Differential Equations, Geometric and Harmonic Analysis
Department of Mathematics, University of Sussex, Brighton, BN1 9RF, England, UK, a.taheri@sussex.ac.uk

Bernard Teissier: Algebraic Geometry
Institut Mathématique de Jussieu, UMR7586 Bureau 702, Bâtiment Sophie Germain, Case 7012, 75205 Paris, Cedex 13, teissier@math.jussieu.fr

Siamak Yassemi: Commutative Algebra
Department of Mathematics, University of Tehran, P.O. Box 14155-6455 Tehran, Iran, yassemi@khayam.ut.ac.ir

Editorial Office

Molood Bayat
BIMS, P.O. Box 13145-418,
Tehran, Iran
E-mail: bims@ims.ir
Tel and fax +982188807775