



# International Journal of Group Theory

Vol. 13, No. 3, 2024

Print ISSN: 2251-7650

Online ISSN: 2251-7669

Publisher: University of Isfahan

Editors-in-Chief	Director	Executive Assistant
<b>Dr. Alireza Abdollahi</b> University of Isfahan, Iran <a href="mailto:a.abdollahimath.ui.ac.ir">a.abdollahimath.ui.ac.ir</a>	<b>Dr. Alireza Abdollahi</b> University of Isfahan, Iran <a href="mailto:a.abdollahimath.ui.ac.ir">a.abdollahimath.ui.ac.ir</a>	<b>Rabeeh Sadat Mousavifard</b> University of Isfahan, Iran <a href="mailto:rb.mousavi@yahoo.com">rb.mousavi@yahoo.com</a>

## Editorial board

<b>Dr. Mehri Akhavan-Malayeri</b> Alzahra University Tehran, Tehran, Iran	<b>Dr. Mahmut Kuzucuoglu</b> Middle East Technical University Ankara, Turkey
<b>Dr. Bernhard Amberg</b> Johannes Gutenberg-Universität Mainz Mainz, Germany	<b>Dr. Patrizia Longobardi</b> Università di Salerno, Salerno, Italia
<b>Dr. Saeid Azam</b> University of Isfahan, Iran	<b>Dr. Attila Maróti</b> Alfred Renyi Institute of Mathematics, Budapest, Hungary
<b>Dr. Victor Bovdi</b> United Arab Emirates University, Al Ain, United Arab mirates	<b>Dr. Mohammad Reza Rajabzadeh Moghaddam</b> Ferdowsi University of Mashhad, Iran
<b>Dr. Colin M. Campbell</b> University of St Andrews St Andrews, Scotland	<b>Dr. Alireza Moghaddamfar</b> K.N. Toosi University of Technology Tehran, Iran
<b>Dr. Robert Turner Curtis</b> University of Birmingham Birmingham, UK	<b>Dr. Jamshid Moori</b> North-West University Mmabatho, South Africa
<b>Dr. Ahmad Erfanian</b> Ferdowsi University of Mashhad, Mashhad, Iran	<b>Dr. Hamid Mousavi</b> University of Tabriz, Tabriz, Iran
<b>Dr. Vahid Dabbaghian</b> Simon Fraser University Burnaby, Canada	<b>Dr. Said Najati Sidki</b> Universidade De Brasilia Brasilia, Brazil
<b>Dr. Mohammad Reza Darafsheh</b> University of Tehran Tehran, Iran	<b>Dr. Bijan Taeri</b> Isfahan University of Technology Isfahan, Iran
<b>Dr. Alireza Salehi Golsefidy</b> University of California, San Diego, USA	<b>Dr. Gunnar Traustason</b> University of Bath, UK
<b>Dr. Aliakbar Mohammadi Hassanabadi</b> Sheikh Bahaei University Isfahan, Isfahan, Iran	<b>Dr. Evgeny Vdovin</b> Sobolev Institute of Mathematics Novosibirsk, Russia
<b>Dr. Ali Iranmanesh</b> Tarbiat Modares University Tehran, Iran	<b>Dr. Efim Zel'manov</b> University of California San Diego, USA
<b>Dr. Behrooz Khosravi</b> Amirkabir University of Technology Tehran, Iran	

## Indexing and Abstracting

Web of Science	<a href="https://mjl.clarivate.com">/https://mjl.clarivate.com</a>
Scopus	<a href="https://www.scopus.com/sourceid/21100329547?origin=resultslist">https://www.scopus.com/sourceid/21100329547?origin=resultslist</a>
SJR SCImago	<a href="https://www.scimagojr.com/journalsearch.php?q=21100329547&amp;tip=sid&amp;clean=0">https://www.scimagojr.com/journalsearch.php?q=21100329547&amp;tip=sid&amp;clean=0</a>
Mathematical Reviews	<a href="https://mathscinet.ams.org/mathscinet/search/journal.html?cn=Int_J_Group_Theory">https://mathscinet.ams.org/mathscinet/search/journal.html?cn=Int_J_Group_Theory</a>
Zentralblatt MATH	<a href="https://zbmath.org/serials/?q=se:00007343">https://zbmath.org/serials/?q=se:00007343</a>
EZB: Electronic journal library	<a href="https://opac.giga-hamburg.de/ezb">https://opac.giga-hamburg.de/ezb</a>
EBSCO	<a href="https://www.ebsco.com">/https://www.ebsco.com</a>
IndexCopernicus	<a href="http://journals.indexcopernicus.com/International+Journal+of+Group+Theory,p2830,3.html">http://journals.indexcopernicus.com/International+Journal+of+Group+Theory,p2830,3.html</a>
Islamic World Science Citation Center (ISC)	<a href="https://ecc.isc.ac/showJournal/22812">https://ecc.isc.ac/showJournal/22812</a>
Magiran	<a href="https://www.magiran.com/magazine/6469">https://www.magiran.com/magazine/6469</a>
Google Scholar	<a href="https://scholar.google.com/scholar?as_q=&amp;as_epq=&amp;as_oq=&amp;as_eq=&amp;as_occt=any&amp;as_sauthors=&amp;as_publication=International+Journal+of+Group+Theory&amp;as_ylo=&amp;as_yhi=&amp;hl=en&amp;as_sdt=0%2C5">https://scholar.google.com/scholar?as_q=&amp;as_epq=&amp;as_oq=&amp;as_eq=&amp;as_occt=any&amp;as_sauthors=&amp;as_publication=International+Journal+of+Group+Theory&amp;as_ylo=&amp;as_yhi=&amp;hl=en&amp;as_sdt=0%2C5</a>
(Electronic Journals Library (EZB))	<a href="https://ezb.ur.de/ezeit/searchres.phtml?bibid=AAAAA&amp;colors=1&amp;lang=en&amp;jq_type1=QS&amp;jq_term1=2251-7650">https://ezb.ur.de/ezeit/searchres.phtml?bibid=AAAAA&amp;colors=1&amp;lang=en&amp;jq_type1=QS&amp;jq_term1=2251-7650</a>
ULRICH	<a href="https://search.library.ucsb.edu/discovery/jfulldisplay?docid=alma9914807538606531&amp;context=L&amp;vid=01UCSB_INST:UCSB&amp;lang=en&amp;adaptor=Local%20Search%20Engine&amp;tab=jsearch_slot&amp;query=any,contains,2251-7650&amp;offset=0&amp;journals=any,2251-7650">https://search.library.ucsb.edu/discovery/jfulldisplay?docid=alma9914807538606531&amp;context=L&amp;vid=01UCSB_INST:UCSB&amp;lang=en&amp;adaptor=Local%20Search%20Engine&amp;tab=jsearch_slot&amp;query=any,contains,2251-7650&amp;offset=0&amp;journals=any,2251-7650</a>
Asian Science Citation Index	<a href="https://ascidatabase.com/masterjournalist.php?v=Biological+Journal+of+Microorganism">https://ascidatabase.com/masterjournalist.php?v=Biological+Journal+of+Microorganism</a>

### Address

Central Building of University of Isfahan,  
Second Floor, Office of International Journal  
of Group Theory Hezar Jerib Street,  
University of Isfahan, Isfahan, 81746-73441,  
IRA

### Contact Info



(0098) 31 37934125



(0098) 31 37932177



rb.mousavi@yahoo.com

The International Journal of Group Theory has been recognized and ranked as a Scientific-Research journal based on the document number 3/11/87423 issued by the Evaluation Committee of Scientific journals of Research and Technology Ministry, in August, 2012.

## TABLE OF CONTENTS

- New constructions of Deza digraphs 225-240  
**Dean Crnkovic; Hadi Kharaghani; Sho Suda; Andrea Svob**
- Computing Galois groups 241-250  
**Andreas-Stephan Elsenhans**
- On the proportion of elements of prime order in finite symmetric groups 251-256  
**Cheryl E. Praeger; Enoch Suleiman**
- Orders of simple groups and the Bateman--Horn Conjecture 257-269  
**Gareth Aneurin Jones; Alexander K. Zvonkin**
- Non-separable matrix builders for signal processing, quantum information and mimo applications 271-291  
**Ted Hurley; Barry Hurley**
- Covering perfect hash families and covering arrays of higher index 293-305  
**Charles J. Colbourn**
- Enumerating word maps in finite groups 307-318  
**Bogdan S. Chlebus; William Cocke; Meng-Che Ho**