Report on the state of mathematics in Iran (2007-2013)

This is an overview of the present status in Mathematics in Iran, prepared for the presentation to the IMU for promotion to Group IV by the adhering organization, the Iranian Mathematical Society (IMS).

1-Development History of the Iranian Mathematical Society

1.1 Historical Background

Before the establishment of the first university in Iran in 1934, and for about 3 subsequent decades after that, there was no recognized need in Iran for a mathematical society. One of the main reasons was that most of the Iranian Mathematicians were residing in Tehran. Gradually, in the 1960’s, with the continuous establishment of more universities, there was a growing need for cooperation and collaboration among university mathematics professors. For this recognized need; in 1970, the 1st National Mathematics Conference was held in University of Shiraz and the need for the establishment of the Iranian Mathematical Society (IMS) was expressed and emphasized by all participants. At the 2nd National Mathematics Conference, the Founding Body approved the proposed constitution of IMS. In that conference, the members of the Executive Council were elected. Finally, in 1971, IMS was officially registered.

In 1972, the general Assembly nominated three committee to pursue the following agenda:

- Publishing the IMS Bulletin;
- Holding University Student Mathematics Contests;
- Choosing appropriate Persian equivalents for mathematical terms;

Since then, IMS has been improving and expanding its activities.

1.2 Membership

The IMS encourages all members of mathematics community at large to become its members. At present, IMS has about 700 full, about 2000 associate and some outstanding Iranian mathematicians living aboard are as honorary members. In addition, IMS has about 45 institutional members.

During the last 42 years, IMS has been responsible for organizing a number of academic and social events regarding mathematics. The following is a short summary of these activities.
1.3 Annual Gatherings:

1.3.1 The National Mathematics Conference

The IMS has successfully held annual National Mathematics Conferences since its establishments in 1970. The 44th National Mathematics Conference was held in University of Mashhad in September 2013 and the 45th National Mathematics Conference will be held in University of Semnan in September 2014. The significance of these activities is that for the last 44 years, the Iranian society has undergone major social changes. Universities were closed for 3 years, and the country suffered from an 8-year war. The period of post-war reconstruction caused severe financial restrictions and resource shortages for the universities. However, the National Mathematics Conference never ceased to convene and this is quite significant! The number of participants and papers presented at these conferences grew significantly. This growth prompted IMS to hold specialized meetings for different interest groups within the mathematical community at large.

1.3.2 Annual Iranian Mathematics Education Conferences

Since the number of teachers and educators of mathematics were growing in the National Mathematics Conferences, the need for organizing a separate conference for this interest group was acknowledge in various occasions. As the result, the necessity for organizing the annual Iranian Mathematics Education Conference (IMEC) was officially declared at the 26th National Mathematics Conference in Kerman in 1995 by then Minister of Education who was a mathematician himself. He appealed to the mathematicians and mathematics teachers to cooperate and organize such a conference. The result of this cooperation was the opening of the 1st IMEC that was held in Esfahan in the summer of 1996. The IMS has its delegates in the scientific committee of IMEC to monitor the scientific activities. The organizer and financial supporter of IMEC is the Ministry of Education.

More than 1000 teachers and university scholars are participating at the IMEC. At present, the research papers, refereed and presented at the IMEC, are improving in terms of quality and quantity. The IMEC has been providing valuable opportunities for teachers and educators to become interested in research issues within the Discipline of Mathematics Education. As a result, there was recognition for this discipline, and the proposed Master program of Mathematics Education was officially approved by the Ministry of Science, Research & Technology in December 1999.

1.3.3 University Student Seminars

Another interested group affiliated with IMS are university students. In 1998, specially designed seminar for the interested students of mathematics was held in Ahvaz. The second one was held in Sharif University of Technology in 1999, and the third in Kahje Nasir-e din Toosi University of Technology in the year 2000 with more than 600 student participants. The significance of
these seminars is that almost all the scientific and organizational activities including writing, and presenting papers as well as running workshop, round table discussions exhibitions and so o, are done by the students themselves.

1.3.4 Specialized Seminars and Conferences

A number of specialized gatherings have been held annually or biannually in the last few years under the supervision of IMS. During the year 2013, the following have been held or will be held:

- The 23rd Algebra Seminar;
- The 11th Seminar on Differential Equations and Dynamical System;
- The 4th Seminar on Numerical Analysis;
- The 7th Linear Algebra Seminar;
- The 20th Mathematical Analysis Seminar;
- The 2nd Seminar Harmonic Analysis and its Applications;
- The 6th Group Theory Conference
- The 7th Seminar Geometry and Topology
- The 5th Applied Mathematics Conference;

It is worth mentioning that all these activities are being organized by different universities across the nation and are supervised by the IMS.

1.3.5 Monthly Seminars

Since 1999, IMS has been organizing monthly seminars to disseminate new ideas, as well as presenting thorough account of each specialized field including historical overview, important theorems and finding and open problems of that filed.

The main audiences of these monthly seminars are Master and Doctoral students. The interested students not able to attend these seminars can have access to the proceedings and communicate with the presenters. The Monthly Seminars are held at different universities locates in Tehran.

1.4 Mathematical Contests:

1.4.1 The University Student Contests

The proposal for arranging mathematical contests among undergraduate students was approved in the IMS General Assembly of 1972. The decision was also made to use the experience gained from these contests to prepare school students for participation in the World Mathematical Olympiads.
The first University Student Mathematics Contest was held in March 1973 and is being held annually with the exception of period of the Cultural Revolution in which the universities were closed for three years, from 1980 to 1983.

Up to the year 1998, these competitions were simultaneously held with National Mathematics Conference. Since 1998 when the student seminars started, the IMS Executive Committee decided to hold these competitions concurrent with student seminars. The 38th University student Mathematics Contest was held in May 2014. One hundred and sixty four students from 37 universities and institutions participated in this contest. These contests have created an excellent opportunity for students to compete in a healthy and friendly environment.

1.4.2. International Mathematical Contest for University Students

For the first time in 1999, a team of students from Sharif University of Technology participated in the 6th International Mathematics Contest of University Students in which each participating team had four undergraduate members, and each university from throughout the world could send separate teams. The host country for the 6th International Mathematics contest of University Students was Hungary and the Iranian team ranked second overall in this contest and in the year 2013, Mathematics team of Sharif University of Technology stood seventh in the 20th International Student Mathematics Contest held in Bulgaria.

1.5 Publications:

1.5.1 Periodicals

The first publication of IMS is “The Bulletin of the Iranian Mathematical Society” which was first published in 1973. The Bulletin contained various original, descriptive, and informative articles in both Persian and English and had a section for news.

Since 1979, in which the publication of the IMS quarterly Newsletter started, the Bulletin devoted most of its effort to publish extended research reports and papers with high quality. The Bulletin is internationally recognized and reviewed cover to cover.

At now, Bulletin is published six issues per year and indexing in the following databases:

- Science Citation Index Expanded (also known as SciSearch)
- Journal Citation Reports/Science Edition
- Mathematical Reviews (MathSciNet)
- Zentralblatt MATH
- Islamic World Science Citation Center (ISC)

Another international Journals which publish by other Universities in Iran are as follows:
Some of them indexing in ISI, Scopus and all of them indexing in MathSciNet.

In 1982, the first issue of “Farhang va Andishe-ye Riazi” (The Culture and Thoughts of Mathematics) was published in Persian. This periodical is published twice a year. Farhang Va Andishe-ye Riazi is devoted to expository articles regarding various issues of mathematics; including history and teaching, as well as different branches of applied and pure mathematics.

The cooperation of Iranian mathematicians living aboard as well as internationally known mathematicians with these periodicals is invited and highly recommended. Extended use of electronic facilities and the Internet for more efficient communication and faster evaluation is suggested.

1.5.2 Books

The Dictionary of Mathematics and statistics is the only non-periodical publication of the IMS. This book is the joint voluntary work of the members of the committee which have been set up since 1972. The result of this effort was finally published in 1991 in a book that is called by many, the “Bible of the Iranian Mathematics”. It is worth mentioning that after 8 years of delay, a number of committees were set up in 1999 to update and complete this work.

The IMS needs its own publishing facilities and a strong staff to act professionally. Publication can and should be the main source of income for IMS.

From 2007 till now, we bring in follows, some books which prepared by Iranian Mathematicians:
**Special Issue**
The Proceedings of the IPM Logic Conference 2007

Edited by: A. Enayat, I. Kalantari

Published by Elsevier B.V., 2010

---

**Multicriteria Analysis**
Applications to Water and Environment Management
Mehdi Zarghami
Ferenc Szidarovszky

Publisher: Springer, 2011

---

**Iranian Mathematics Competitions, 1973-2007**
Yahaghi, Bamdad R

Publisher: Hindustan Book Agency (2010)
Proceedings of
International Workshop on Design Theory, Graph Theory, and Computational Methods - IPM Combinatorics II

Edited by: J. Dinitz, H. Kharaghani, G.B. Khosrovshahi and S. Shahriari

Published by Elsevier B.V., 2009

Spectral Theory Of Linear Operators
Author: Mohammad Bagher Ghaemi
Publisher: Lap Lambert Academic Publishing (2009-11-12).

An Invitation to Noncommutative Geometry
(Proceedings of the International Workshop on Noncommutative Geometry)

Edited by: M. Khalkhali, and M. Marcolli

Published by World Scientific, 2008

Lecture on Combinatorics I

IPM Lecture Notes Series


Published by IPM, 2008
Lecture on Classical Analytic Theory of \( L \)-function

IPM Lecture Notes Series 7

By: Amir Akbary

Published by IPM, 2008

Special Issue devoted to selected papers presented at the First IPM Conference on Algebraic Graph Theory

Edited by: R. Brualdi, R. Khosrovshahi, B. Mohar, and P. Rowlinson

Published by Elsevier Inc., 2008

Proceedings of the International Workshop on Computer Vision

Edited by: Z. H. Cho, and L. A. Shepp
Guest Editor: Mehrdad Shahshahani

Published by Wiley InterScience, 2007

Special Issue devoted to selected papers presented at the International Workshop on Combinatorics, Linear Algebra, and Graph Coloring

Guest Editors: R. A. Brualdi, S. Hedayat, H. Kharaghani, G. B. Khosrovshahi, S. Shahriari

Published by Elsevier B.V., 2006
Of course, up to now, many books published by International publisher which some part of book written by Iranian Mathematicians.

1. 6 Commemorations

In order to commemorate great Iranian mathematicians, the following awards are given to selected papers presented at different meetings organized by IMS:

- **Professor Riazi Kermani** Award is given to the best research paper presented at the National Mathematics Conference;
- **Professor Maniivhehr Vesal** Awards is given to the best research paper presented at the annual Mathematical Analysis Seminar
- **Professor Taghi Fatemi** Award is given to the best research paper presented by a school teacher at the annual Iranian Mathematics Education Conference;
- **Professor Mohsen Hashtroodi** Award is given for the best paper presented by an undergraduate student at the annual University Student Seminar.
- **Professor Mehdi Radjbalipour** Award is given for the best paper presented at the Linear Algebra Seminar
- **Professor Mehdi Behzad** Award is given for the best management in Mathematic
- **Professor Hadi Shafieih** Awarded is given for the best edited mathematical texts
- **Professor Abolghasem Ghorbani** Awarded is given for the best paper published in History of Mathematics;

Besides, the pioneers of mathematics in the country are occasionally honored and appreciated in some of the IMs annual meetings.

1.7 Educational Contracts and Research Studies

In 1974, IMS made a contract with the Ministry of Science, Research and Technology to develop a mathematics curriculum at the undergraduate level. The prepared curriculum under this contract is still
being used in all the universities in Iran.

The second contract of IMS was made with Iran University Press to publish the Dictionary of Mathematics and Statistics.

The Executive Council of IMS is studying the feasibility of making various contracts with the Ministry of Education and the Ministry of Science, Research and Technology in order to investigate and evaluate the different mathematics programs at general education, undergraduate and graduate levels.

1.8 International Communications

The IMS is a member of the International Mathematical union (IMU), and was promoted to group III in 2007.

It is worth mentioning that IMU, along with other international scientific unions of different fields of inquiry, is a member of the International Council of Scientific Unions. The Council is under the supervision of UNESCO (United Nation’s Educational, Scientific and Cultural Organization).

The IMS has reciprocal relationships with many mathematical societies around the world. It exchanges its Bulletin for their publications for the purpose of enhancing cooperation and communications with other mathematical societies.

The IMs has its representatives in all major universities of the country. The duties and responsibilities of these representatives are approved by the IMS Executive Council. In addition many universities and scientific organizations in Iran are institutional members of IMS. However, communication between IMs and its members and affiliated groups leaves much to be desired.

According to cooperation between IMS and some International Centers in the world, for example, ICTP, IMPA, and so on, the best students selected by University Student Mathematics Contest will go to these centers for a short period.

1.9 Specialized Committee

Since each year the Mathematicians in Iran growth and Mathematical research covers a wide variety of areas. IMS decided to introduce some specialized Committee which contain the best Iranian Mathematicians in that subject. In follow, we bring the name of these Committee:

- Mathematical Education
- Mathematical Analysis
- Statistics
- Numerical Analysis
- Algebra
- Differential equation and Dynamical system
- Commutative Algebra
- Group Theory
- Coding Theory
- Financial Mathematics
- Non linear Analysis
- Fuzzy Systems
- Harmonic Analysis
- Optimization and operation research
- Combinatorics and graph theory
- Linear Algebra and operator Theory
- Logic and Computer Science
- Geometry and Topology

2- Ranking of Iran in Mathematical Sciences

According to http://www.scimagojr.com, Iran is in the 16th position in the ranking of research articles in mathematics published in 2012 in all of the world. Of course, in 2007, Iran was in the 25th position in the ranking of research articles published in mathematics (see Table 1)
Table 1

<table>
<thead>
<tr>
<th>Country</th>
<th>Documents</th>
<th>Citable documents</th>
<th>Citations</th>
<th>Self-Citations</th>
<th>Citations per Document</th>
<th>H Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>20.908</td>
<td>19.507</td>
<td>8.045</td>
<td>4.398</td>
<td>0.38</td>
<td>355</td>
</tr>
<tr>
<td>China</td>
<td>16.656</td>
<td>15.839</td>
<td>4.216</td>
<td>2.741</td>
<td>0.25</td>
<td>135</td>
</tr>
<tr>
<td>Germany</td>
<td>8.059</td>
<td>7.506</td>
<td>3.503</td>
<td>1.637</td>
<td>0.43</td>
<td>182</td>
</tr>
<tr>
<td>France</td>
<td>7.433</td>
<td>6.975</td>
<td>2.821</td>
<td>1.177</td>
<td>0.38</td>
<td>166</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>6.425</td>
<td>5.982</td>
<td>3.042</td>
<td>1.217</td>
<td>0.47</td>
<td>186</td>
</tr>
<tr>
<td>Italy</td>
<td>5.472</td>
<td>5.015</td>
<td>2.427</td>
<td>1.015</td>
<td>0.44</td>
<td>148</td>
</tr>
<tr>
<td>Spain</td>
<td>4.650</td>
<td>4.323</td>
<td>2.022</td>
<td>0.759</td>
<td>0.43</td>
<td>133</td>
</tr>
<tr>
<td>Japan</td>
<td>4.583</td>
<td>4.335</td>
<td>1.750</td>
<td>0.667</td>
<td>0.38</td>
<td>133</td>
</tr>
<tr>
<td>India</td>
<td>4.504</td>
<td>4.358</td>
<td>0.79</td>
<td>0.425</td>
<td>0.22</td>
<td>103</td>
</tr>
<tr>
<td>Canada</td>
<td>4.118</td>
<td>3.838</td>
<td>1.804</td>
<td>0.540</td>
<td>0.44</td>
<td>143</td>
</tr>
<tr>
<td>Russian Federation</td>
<td>3.498</td>
<td>3.375</td>
<td>1.520</td>
<td>0.748</td>
<td>0.43</td>
<td>124</td>
</tr>
<tr>
<td>South Korea</td>
<td>3.268</td>
<td>3.078</td>
<td>1.291</td>
<td>0.438</td>
<td>0.40</td>
<td>102</td>
</tr>
<tr>
<td>Poland</td>
<td>2.950</td>
<td>2.616</td>
<td>1.010</td>
<td>0.429</td>
<td>0.31</td>
<td>94</td>
</tr>
<tr>
<td>Australia</td>
<td>2.505</td>
<td>2.309</td>
<td>1.106</td>
<td>0.314</td>
<td>0.44</td>
<td>116</td>
</tr>
<tr>
<td>Taiwan</td>
<td>2.459</td>
<td>2.291</td>
<td>0.89</td>
<td>0.250</td>
<td>0.32</td>
<td>102</td>
</tr>
<tr>
<td>Iran</td>
<td>2.364</td>
<td>2.259</td>
<td>0.637</td>
<td>0.341</td>
<td>0.27</td>
<td>56</td>
</tr>
<tr>
<td>Brazil</td>
<td>2.303</td>
<td>2.171</td>
<td>0.888</td>
<td>0.375</td>
<td>0.39</td>
<td>86</td>
</tr>
<tr>
<td>Netherlands</td>
<td>1.936</td>
<td>1.784</td>
<td>1.088</td>
<td>0.271</td>
<td>0.56</td>
<td>121</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1.729</td>
<td>1.625</td>
<td>1.335</td>
<td>0.340</td>
<td>0.77</td>
<td>136</td>
</tr>
<tr>
<td>Israel</td>
<td>1.566</td>
<td>1.468</td>
<td>0.799</td>
<td>1.182</td>
<td>0.51</td>
<td>125</td>
</tr>
<tr>
<td>Turkey</td>
<td>1.557</td>
<td>1.478</td>
<td>0.580</td>
<td>2.13</td>
<td>0.37</td>
<td>76</td>
</tr>
</tbody>
</table>

Also, according to http://www.scimagojr.com, Iran was in the 4th position in the ranking of research articles in mathematics published in 2007 in the Middle East, but in 2012, Iran is in the first position in the ranking of research articles published in mathematics (see Table 2 and 3).
Table 2

<table>
<thead>
<tr>
<th>Country</th>
<th>Documents</th>
<th>Citable documents</th>
<th>Citations</th>
<th>Self-Citations</th>
<th>Citations per Document</th>
<th>H index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Israel</td>
<td>1,176</td>
<td>1,161</td>
<td>13,106</td>
<td>2,757</td>
<td>11,14</td>
<td>125</td>
</tr>
<tr>
<td>Turkey</td>
<td>502</td>
<td>499</td>
<td>4,526</td>
<td>1,625</td>
<td>9,02</td>
<td>76</td>
</tr>
<tr>
<td>Egypt</td>
<td>270</td>
<td>270</td>
<td>2,091</td>
<td>605</td>
<td>7,74</td>
<td>48</td>
</tr>
<tr>
<td>Iran</td>
<td>247</td>
<td>245</td>
<td>1,787</td>
<td>901</td>
<td>7,23</td>
<td>56</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>136</td>
<td>136</td>
<td>1,011</td>
<td>227</td>
<td>7,43</td>
<td>42</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>64</td>
<td>62</td>
<td>572</td>
<td>73</td>
<td>8,94</td>
<td>28</td>
</tr>
<tr>
<td>Jordan</td>
<td>48</td>
<td>48</td>
<td>210</td>
<td>90</td>
<td>4,38</td>
<td>31</td>
</tr>
<tr>
<td>Kuwait</td>
<td>43</td>
<td>42</td>
<td>303</td>
<td>31</td>
<td>7,05</td>
<td>26</td>
</tr>
<tr>
<td>Oman</td>
<td>39</td>
<td>39</td>
<td>336</td>
<td>35</td>
<td>8,62</td>
<td>23</td>
</tr>
<tr>
<td>Lebanon</td>
<td>29</td>
<td>28</td>
<td>179</td>
<td>29</td>
<td>6,17</td>
<td>21</td>
</tr>
<tr>
<td>Bahrain</td>
<td>9</td>
<td>9</td>
<td>29</td>
<td>3</td>
<td>3,22</td>
<td>9</td>
</tr>
<tr>
<td>Palestine</td>
<td>9</td>
<td>9</td>
<td>97</td>
<td>13</td>
<td>10,78</td>
<td>14</td>
</tr>
<tr>
<td>Qatar</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>0</td>
<td>1,25</td>
<td>14</td>
</tr>
<tr>
<td>Iraq</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0,00</td>
<td>7</td>
</tr>
<tr>
<td>Syrian Arab Republic</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>2,00</td>
<td>8</td>
</tr>
<tr>
<td>Yemen</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>3,00</td>
<td>10</td>
</tr>
</tbody>
</table>

Scimago Lab, Copyright 2007-2014. Data Source: Scopus®
3- The number of Societies related to Mathematical Sciences

- Iranian Mathematical Society
- Iranian Statistical Society
- Iranian Fuzzy System Society
- Iranian Society of Cryptology
- Iranian Association for Mathematics Teachers

All of societies in Iran in all branches are ranking by the Ministry of Science, Research & Technology, each year. From 2008 till now, the Iranian Mathematical Society get the first rank between all of societies in basic science.
### 4- Number of International Conferences and Workshops held in Iran

We explained about some Conferences and Seminar which organized by IMS in the above. Here, we bring another International Conferences and Workshop which held in Iran from 2007 till 2013:

#### 2014

<table>
<thead>
<tr>
<th>Conference/Workshop</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11th International ISC Conference on Information Security and Cryptology</td>
<td>3-4 September 2014</td>
<td>University of Tehran</td>
</tr>
<tr>
<td>14th Iranian Conference on Fuzzy Systems</td>
<td>19-21 August</td>
<td>Sahand University of Technology</td>
</tr>
<tr>
<td>7th International Conference of Iranian Operations Research Society</td>
<td>14-15 May</td>
<td>Semnan University</td>
</tr>
<tr>
<td>6th International Conference on Group Theory</td>
<td>12-14 March</td>
<td>Golestan University</td>
</tr>
<tr>
<td>2nd Seminar on Harmonic Analysis and Applications</td>
<td>5-7 January</td>
<td>IPM</td>
</tr>
<tr>
<td>1st International Conference of Operation Research for Optimal Decision(Making Oil, Gas, Petrochemical, Refining and Distribution Industries)</td>
<td>1-2 June</td>
<td></td>
</tr>
<tr>
<td>45th Annual Iranian Mathematics Conference</td>
<td>26-29 August</td>
<td>Semnan University</td>
</tr>
</tbody>
</table>

#### 2013

<table>
<thead>
<tr>
<th>Conference/Workshop</th>
<th>Date</th>
<th>Location/University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Seminar on Mathematical Logic and its Applications</td>
<td>December 18 and 19</td>
<td>IPM</td>
</tr>
<tr>
<td>International Conference on Operations Research and Optimization</td>
<td>January 19-22</td>
<td>IPM</td>
</tr>
<tr>
<td>Workshop on Higher Dimensional Auslander-Reiten Theory</td>
<td>29-30 August 2013</td>
<td>IPM</td>
</tr>
<tr>
<td>10th The International ISC Conference on Information Security and Cryptology</td>
<td>8-9 May 2013</td>
<td>Yazd University</td>
</tr>
<tr>
<td>5th International Conference on Group Theory</td>
<td>13-16 March</td>
<td>Islamic Azad University, Mashhad Branch</td>
</tr>
<tr>
<td>13th Iranian Conference on Fuzzy Systems</td>
<td>27-29 August</td>
<td>Islamic Azad University, Qazvin Branch</td>
</tr>
<tr>
<td>44th Annual Iranian Mathematics Conference</td>
<td>27-30 August</td>
<td>Ferdowsi University of Mashhad</td>
</tr>
<tr>
<td>1st Seminar on Harmonic Analysis and Applications</td>
<td>23-24 January</td>
<td>Isfahani University of Technology</td>
</tr>
<tr>
<td>6th International Conference of Iranian Operations Research Society</td>
<td>8-9 May 2013</td>
<td></td>
</tr>
</tbody>
</table>

#### 2012

<table>
<thead>
<tr>
<th>Conference/Workshop</th>
<th>Date</th>
<th>Location/University</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPM Workshop on Representations of Artin Algebras</td>
<td>October 15-18</td>
<td>IPM</td>
</tr>
<tr>
<td>A Workshop on Geometry and Topology</td>
<td>August 25 and 26</td>
<td>IPM</td>
</tr>
<tr>
<td>One-day Conference on Graph Theory</td>
<td>10-May</td>
<td>IPM</td>
</tr>
<tr>
<td>4th International Conference on Group Theory</td>
<td>7-9 March</td>
<td>Payame Noor University of Isfahan</td>
</tr>
<tr>
<td>6th International Conference on Fuzzy Information and Engineering (ICFIE)</td>
<td>25-26 October</td>
<td>University of Mazandaran</td>
</tr>
<tr>
<td>5th International Conference of Iranian Operations Research Society</td>
<td>16-17 May</td>
<td>Azarbaijan Shaid Madani University</td>
</tr>
<tr>
<td>12th IRANIAN CONFERENCE ON FUZZY SYSTEMS</td>
<td>23-25 October</td>
<td>University of Mazandaran</td>
</tr>
<tr>
<td>43th Annual Iranian Mathematics Conference</td>
<td>27-30 August</td>
<td>Tabriz University</td>
</tr>
<tr>
<td>9th International ISC Conference on Information Security and Cryptology</td>
<td>13-14 September 2012</td>
<td>University of Tabriz</td>
</tr>
</tbody>
</table>
### 2011

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Conference on Operations Research and Optimization</td>
<td>January 26-28</td>
<td>IPM</td>
</tr>
<tr>
<td>Workshop on Computational Commutative Algebra</td>
<td>July 2-7</td>
<td>IPM</td>
</tr>
<tr>
<td>The 9th International Iranian Workshop on Stochastic Processes</td>
<td>October 25-27</td>
<td>IPM</td>
</tr>
<tr>
<td>International Workshop and Conference on Infinite Dimension Lie Theory and its Applications</td>
<td>May 10-17</td>
<td>IPM</td>
</tr>
<tr>
<td>4th International Conference of Iranian Operations Research Society</td>
<td>18-19 May</td>
<td>Guilan University</td>
</tr>
<tr>
<td>11th IRANIAN CONFERENCE ON FUZZY SYSTEMS</td>
<td>5-7 July</td>
<td>Universyti of Sistan and Baluchestan</td>
</tr>
<tr>
<td>42th Annual Iranian Mathematics Conference</td>
<td>5-8 September</td>
<td>Vali-e-Asr University of Rafsanjan</td>
</tr>
<tr>
<td>8th International ISC Conference on Information Security and Cryptology</td>
<td>14-15 September 2011</td>
<td>Ferdowsi University of Mashhad</td>
</tr>
</tbody>
</table>

### 2010

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>The 6th International Iranian Workshop on Stochastic Processes</td>
<td>May 18-20</td>
<td>IPM</td>
</tr>
<tr>
<td>IPM Workshop on Cluster Algebras and Quiver Representations</td>
<td>June 29-July 1</td>
<td>IPM</td>
</tr>
<tr>
<td>10th IRANIAN CONFERENCE ON FUZZY SYSTEMS</td>
<td>13-15 July</td>
<td>Shahid Beheshti University</td>
</tr>
<tr>
<td>3rd International Conference of Iranian Operations Research Society</td>
<td>5-6 May</td>
<td>Amirkabir University of Technology</td>
</tr>
<tr>
<td>41th Annual Iranian Mathematics Conference</td>
<td>12-15 September</td>
<td>Urmia University</td>
</tr>
<tr>
<td>4th International Conference on Fuzzy Information and Engineering (ICFIE)</td>
<td>14-15 October</td>
<td>Amol University</td>
</tr>
</tbody>
</table>

### 2009

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Workshop on Number Theory</td>
<td>May 31 - June 4</td>
<td>IPM</td>
</tr>
<tr>
<td>The 2nd School &amp; Conference on Noncommutative Geometry</td>
<td>19-30 April</td>
<td>IPM</td>
</tr>
<tr>
<td>Celebrating 20 Years of IPM</td>
<td>12-15 May</td>
<td>IPM</td>
</tr>
<tr>
<td>2nd International Conference of Iranian Operations Research Society</td>
<td>20-21 May</td>
<td>Mazandaran University</td>
</tr>
<tr>
<td>CIMPA-UNESCO-IPM School on Commutative Algebra and Applications to Combinatorics and Algebraic Geometry</td>
<td>June 20-30</td>
<td>IPM</td>
</tr>
<tr>
<td>40th Annual Iranian Mathematics Conference</td>
<td>17-20 August</td>
<td>Sharif University of Technology</td>
</tr>
</tbody>
</table>
2008

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini-workshop on Index Theory</td>
<td>February 16-20</td>
<td>IPM</td>
</tr>
<tr>
<td>The 2nd One-day Seminar on Partial Differential Equations</td>
<td>13-Mar</td>
<td>IPM</td>
</tr>
<tr>
<td>1st International Conference of Iranian Operations Research Society</td>
<td>28-30 January</td>
<td>Sharif University of Technology</td>
</tr>
<tr>
<td>39th Annual Iranian Mathematics Conference</td>
<td>24-27 August</td>
<td>Shahid Bahonar University of Kerman</td>
</tr>
<tr>
<td>CIMPA-UNESCO-IPM School on Representation Theory of Algebras</td>
<td>June 15-25</td>
<td>IPM</td>
</tr>
</tbody>
</table>

2007

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-day Seminar on Functional Analysis</td>
<td>February 8</td>
<td>IPM</td>
</tr>
<tr>
<td>The first IPM conference on Algebraic Graph Theory</td>
<td>April 21-26</td>
<td>IPM</td>
</tr>
<tr>
<td>IPM logic Conference 2007</td>
<td>June 10-15</td>
<td>IPM</td>
</tr>
<tr>
<td>One-day Seminar on Partial Differential Equation</td>
<td>31-Dec</td>
<td>IPM</td>
</tr>
<tr>
<td>CIMPA-UNESCO-IRAN School on Recent Topics in Geometric Analysis</td>
<td>May 20-June 2</td>
<td>IPM</td>
</tr>
<tr>
<td>Number Theory and Automorphic Forms</td>
<td>December 15-21</td>
<td>IPM</td>
</tr>
<tr>
<td>IPM Combinatorics II Design Theory, Graph Theory, and Computational Methods</td>
<td>April 22-27</td>
<td>IPM</td>
</tr>
<tr>
<td>38th Annual Iranian Mathematics Conference</td>
<td>3-6 September</td>
<td>Zanjan University</td>
</tr>
</tbody>
</table>

5- Number of universities with department of mathematics (non-govermental universities are not included):

- 2007: 58
- 2013: 69

6- Number of master students of mathematics (non-govermental universities are not included):

- 2007:3058
- 2013:6096

7- Number of Ph.D. students of mathematics (non-govermental universities are not included):

- 2007:430
- 2013:643
8- Number of faculty members of department of mathematics with Ph.D. degrees (non-govermental universities are not included):

- 2007: 620
- 2013: 1052

9- Iranian’s Mathematical Sciences Publications

Many publications relating to mathematical sciences in Iran are published annually. These include:

• Scientific articles published in refereed journal articles;

• Conference papers presented at national and international conferences.

Number of publications of Mathematicians with affiliated Institutes in Iran in International Journals reviewed in Math.Sci.Net:

- 2007: 959
- 2008: 1050
- 2009: 1220
- 2010: 1397
- 2011: 2238
- 2012: 2645
- 2013: 2517

Also, from the January of 2014 till now (May 2014), 566 papers indexing in Math.SciNet by Iranian Mathematicians which we bring the detail of them in follows:


MR3182971 Hashemi, Behnam; Tavakolipour, Hanieh; Nasrollahi Shirazi, Mahsa Comparison of the quasi-inverses of the Kronecker sum and product of matrices over complete commutative dioids with applications. Linear Algebra Appl. 448 (2014), 22–36. 15A80 (18B35)

MR3182008 Herzog, Jürgen; Sharifan, Leila; Varbaro, Matteo The possible extremal Betti numbers of a homogeneous ideal. Proc. Amer. Math. Soc. 142 (2014), no. 6, 1875–1891. 13D02

MR3178008 Foroughi, Hamid; Azhari, Mojtaba Mechanical buckling and free vibration of thick functionally graded plates resting on elastic foundation using the higher order B-spline finite strip method. Meccanica 49 (2014), no. 4, 981–993. 74G60 (65D07 74A40 74G10 74K20)


MR3177881 Amirteimoori, Alireza; Yang, Feng A DEA model for two-stage parallel-series production processes. RAIRO Oper. Res. 48 (2014), no. 1, 123–134. 90B30 (90C08)

MR3177878 Rabbani, Masoud; Samavati, Mehran; Ziaee, Mohammad Sadegh; Rafiei, Hamed Reconfigurable dynamic cellular manufacturing system: a new bi-objective mathematical model. RAIRO Oper. Res. 48 (2014), no. 1, 75–102. 90B30 (90C11 90C29)


MR3177306 Soleimanpour-moghadam, Mohadeseh; Nezamabadi-pour, Hossein; Farsangi, Malihe M. A quantum inspired gravitational search algorithm for numerical function optimization. Inform. Sci. 267 (2014), 83–100. 90C59 (68Q12)


Abdollahi, Alireza Groups with maximal irredundant covers and minimal blocking sets. *Ars Combin.* 113 (2014), 337–339. 20D60 (51E21)


MR3182359  Alimohammadi, Ahmad On the class of \((q,\alpha,\beta)\)-metrics. *ISRN Geom.* 2014, Art. ID 596090, 8 pp. 53B40 (53C60)

MR3182008  Herzog, Jürgen; Sharifan, Leila; Varbaro, Matteo The possible extremal Betti numbers of a homogeneous ideal. *Proc. Amer. Math. Soc.* 142 (2014), no. 6, 1875–1891. 13D02


MR3182354  Rasouli, S.; Dayvaz, B. An investigation on algebraic structure of soft sets and soft filters over residuated lattices. ISRN Algebra 2014, Art. ID 635783, 8 pp. 08A72


MR3171442  Nazari, Mohsen; Ramzani, Sepideh  Cooling of an electronic board situated in various configurations inside an enclosure: lattice Boltzmann method.  *Meccanica* 49 (2014), no. 3, 645–658. 82C20 (35Q20 80A20)


MR3164118  Abedi, Maryam; Jalali, Mir Abbas Collective dynamics of interacting particles in unsteady flows. SIAM J. Appl. Dyn. Syst. 13 (2014), no. 1, 194–209. 35Q84 (45B05 76T20 82C31)


MR3170425  Danesh, Hajar; Kafieh, Raheleh; Rabbani, Hossein; Hajizadeh, Fedra  
Segmentation of choroidal boundary in enhanced depth imaging OCTs using a multiresolution  
92C55

MR3165676  Jozani, Mohammad Jafari; Ahmadi, Jafar  

MR3176828  Karapınar, Erdal; Salahifard, Hero; Vaezpour, S. Mansour  
2014, Art. ID 738150, 10 pp. 47H09 (47J25)

MR3176694  Ghorbani, Ebrahim  

MR3176660  Abdollahi, Alireza; Ghorashi, Seved Mohsen; Guerboussa, Yassine; Reguiat, Miloud; Wilkens, Bettina  
Noninner automorphisms of order \( p \) for finite \( p \)-groups of coclass 2. *J. Group Theory* 17 (2014), no. 2, 267–272. 20D45 (20D15)

MR3175408  Akbari, S.; Nikandish, R.  

MR3175404  Dehghan, Mohammad Ali; Talebi, Gholamreza; Shojaiefard, Alireza  
Lower bounds for generalized Hausdorff matrices and lower triangular matrices on the block weighted  
sequence space \( \ell_p(w,F) \). *Linear Multilinear Algebra* 62 (2014), no. 1, 126–138. 26D15 (40G05 46A45)

MR3156200  Shin, Dong Yun; Park, Choonkil; Farhadabadi, Shahrokh  

MR3184957  Park, Choonkil; Eshaghi Gordji, Madjid; Lee, Jung Rye; Shin, Dong Yun  
Comment on "Generalized ternary bi-derivations on ternary Banach algebras: a fixed point approach"  


MR3168253  Donos, Aristomenis; Gauntlett, Jerome P.; Pantelidou, Christiana Competing \( p \) -wave orders. *Classical Quantum Gravity* 31 (2014), no. 5, 055007, 31 pp. 83C57 (83C10)


MR3167971  Rahmani, O.; Pedram, O. Analysis and modeling the size effect on vibration of functionally graded nanobeams based on nonlocal Timoshenko beam theory. Internat. J. Engrg. Sci. 77 (2014), 55–70. 74H45 (74B99 74K10)


MR3167860  Yazdi, Mohammad Eftekhar; Moradi, Abed; Dinarvand, Saeed MHD mixed convection stagnation-point flow over a stretching vertical plate in porous medium filled with a nanofluid in the presence of thermal radiation. Arab. J. Sci. Eng. 39 (2014), no. 3, 2251–2261. 76W05


MR3157698  de Rham, Claudia; Matas, Andrew; Tolley, Andrew J. Deconstructing dimensions and massive gravity. Classical Quantum Gravity 31 (2014), no. 2, 025004, 22 pp. 83C20 (83E15)


MR3144837  Niknam, Taher; Khooban, Mohammad Hassan; Kavousifard, Abdollah; Soltanpour, Mohammad Reza An optimal type II fuzzy sliding mode control design for a class of nonlinear systems. *Nonlinear Dynam.* 75 (2014), no. 1-2, 73–83. 93B12 (70Q05 93C42)


MR3127687  Fallah, M. Amir; Abiri, Habibolah Multi-sensor approach in vessel magnetic wake imaging. Wave Motion 51 (2014), no. 1, 60–76. 78A25 (94A08)


MR3169650  Rismanchian, Mohammad Reza  V-nilpotent groups and 5-term exact sequence.  *Comm. Algebra* 42 (2014), no. 4, 1559–1564. 20E10 (20F19 20J05)


MR3169616  Asghar, Rahim Rahmati; Yassemi, Siamak  On the weakly polymatroidal property of the edge ideals of hypergraphs.  *Comm. Algebra* 42 (2014), no. 3, 1011–1021. 05C65 (05A10 13A15 13D02 13H10)


MR3165411  Agahi, Hamzeh; Mesiar, Radko; Ouyang, Yao; Pap, Endre; Štrboja, Mirjana  On Stolarsky inequality for Sugeno and Choquet integrals. *Inform. Sci.* 266 (2014), 134–139. 28E10

MR3165358  Atmaja, Ardian Nata; de Boer, Jan; Shigemori, Masaki  Holographic Brownian motion and time scales in strongly coupled plasmas. *Nuclear Phys. B* 880 (2014), 23–75. 81V35 (60J70)


MR3158878  Aghababa, Mohammad Pourmahmood  A switching fractional calculus-based controller for normal non-linear dynamical systems. Nonlinear Dynam. 75 (2014), no. 3, 577–588. 93B12 (34A08 93D15)


MR3164629  Farshidianfar, A.; Saghafi, A.  Global bifurcation and chaos analysis in nonlinear vibration of spur gear systems. Nonlinear Dynam. 75 (2014), no. 4, 783–806. 37G20 (34C23 34C28 70K50)


MR3159318  Safaeeyan, Saeed; Baziar, Mohammad; Momtahan, Ehsan  A generalization of the zero-divisor graph for modules. J. Korean Math. Soc. 51 (2014), no. 1, 87–98. 05C25 (16D10)


Saadatmandi, Abbas  

Tatari, Mehdi; Haghighi, Mahboobeh  

Bagheri, Masoud; Bashiri, Mahdi  

Mehrian, Mohammad; Asemani, Davud; Arabameri, Abazar; Pourgholaminejad, Arash; Hadjati, Jamshid  

Yoosefzadeh, Hamid R.; Tareghian, Hamed R.; Farahi, Mohammad H.  

Moghaddam, R. K.; Pariz, N.; Shanechi, H. M.; Kamyad, A. V.  

Payandeh Najafabadi, Amir T.; Kucerovsky, Dan  

Herzog, Jürgen; Rahimi, Ahad  

Zarghami, Ahad; Biscarini, Chiara; Succi, Sauro; Ubertini, Stefano  


MR3167067 Beygmoammadi, Maryam; Sweers, Guido Hopf's boundary point lemma, the Krein-Rutman theorem and a special domain. *Positivity* 18 (2014), no. 1, 81–94. 35J25 (35P05 47H07)


MR3167020 Ochem, Pascal; Pinlou, Alexandre Oriented coloring of triangle-free planar graphs and 2-outerplanar graphs. *Graphs Combin.* 30 (2014), no. 2, 439–453. 05C15 (05C10)


MR3160312 Naghsh, Mohammad Mahdi; Soltanalian, Mojtaba; Stoica, Petre; Modarres-Hashemi, Mahmoud; De Maio, Antonio; Aubry, Augusto A Doppler robust design of transmit sequence and receive filter in the presence of signal-dependent interference. *IEEE Trans. Signal Process.* 62 (2014), no. 4, 772–785. 94A12


MR3165858 Sahleh, H.; Alijani, A. A. Splitting of extensions in the category of locally compact abelian groups. *Int. J. Group Theory* 3 (2014), no. 3, 39–45. 22B05 (20K35)


MR3160671  Rash Ahmadi, Samrand; Maroufi, Farhad; Ghahremanijou, Jasem Buckling of a functionally graded coated solid subjected to sliding contact loading. *Acta Mech.* 225 (2014), no. 2, 553–562. 74G60 (74B05 74G05)


MR3160015  Jodaei, A. 3D elasticity solution for static analysis of functionally graded piezoelectric annular plates on elastic foundations using SSDQM. *Meccanica* 49 (2014), no. 1, 215–237. 74B05 (74G10 74H15 74K20)


Gurabi, Mehdi; Haghany, Ahmad; Vedadi, Mohammad Reza. Piecewise semiprime rings and some applications. *Int. Electron. J. Algebra* 15 (2014), 26–40. 16N60


MR3163183  Shirdel, G. H.; Vaez-Zadeh, B. A note on "Tenacity of a graph with maximum connectivity". *Discrete Appl. Math.* 166 (2014), 273–275. 05C42 (05C40)


Shokouhi, Amir H.; Shahriari, Hamid; Agrell, Per J.; Hatami-Marbini, Adel Consistent and robust ranking in imprecise data envelopment analysis under perturbations of random subsets of data. *OR Spectrum* 36 (2014), no. 1, 133–160. 90C08 (90C31)


MR3160715 Salimi, Maryam; Sather-Wagstaff, Sean; Tavasoli, Elham; Yassemi, Siamak Relative Tor functors with respect to a semidualizing module. *Algebr. Represent. Theory* 17 (2014), no. 1, 103–120. 13D07
MR3151351  Tayyebi, Javad; Aman, Massoud Note on "Inverse minimum cost flow problems under the weighted Hamming distance". *European J. Oper. Res.* 234 (2014), no. 3, 916–920. 90B10 (90C35 94C15)


MR3159130  Hegghernes, Pinar; van ’t Hof, Pim; Lévêque, Benjamin; Paul, Christophe Contracting chordal graphs and bipartite graphs to paths and trees. *Discrete Appl. Math.* 164 (2014), part 2, 444–449. 05C85 (05C76)


MR3159022  Azadi, Vahid; Azadi, Mohammad; Fazelzadeh, S. Ahmad; Azadi, Emad Active control of an FGM beam under follower force with piezoelectric sensors/actuators. *Int. J. Struct. Stab. Dyn.* 14 (2014), no. 2, 1350063, 19 pp. 74M05 (74K10)


MR3149147  Hashemnia, Saeed; Shariat Panahi, Masoud; Mahjoob, Mohammad J. Unmanned bicycle balancing via Lyapunov rule-based fuzzy control. Multibody Syst. Dyn. 31 (2014), no. 2, 147–168. 93C42 (70Q05)


MR3157753  Sadeghian, Hoda; Salarieh, Hassan; Alasty, Aria; Meghdari, Ali On the linear-quadratic regulator problem in one-dimensional linear fractional stochastic systems. Automatica J. IFAC 50 (2014), no. 1, 282–286. 93E20 (34A08 49N10)


MR3155974  Kaveh, A. Computational structural analysis and finite element methods. Springer, Cham, 2014. xvi+432 pp. ISBN: 978-3-319-02963-4; 978-3-319-02964-1 74-02 (05Cxx 65M60 65N30 74Kxx 74S05)
PDF Clipboard Series Book


MR3151266  Rafiei, A. Left-looking version of $AINV$ preconditioner with complete pivoting strategy. Linear Algebra Appl. 445 (2014), 103–126. 65F08 (65F10 65F50)

MR3151261  Akbari, Saieed; Kiani, Dariush; Mirzakhah, Maryam The multiplicity of Laplacian eigenvalue two in unicyclic graphs. Linear Algebra Appl. 445 (2014), 18–28. 05C50 (15A18)

MR3151254  Facchini, Alberto; Moradzadeh-Dehkordi, Ali Rings over which every $RD$-projective module is a direct sums of cyclically presented modules. J. Algebra 401 (2014), 179–200. 16Dxx
MR3150941  Shomorony, Ilan; Etkin, Raúl H.; Parvaresh, Farzad; Avestimehr, Amir Salman

MR3150934  Beigi, Salman; Gohari, Amin

MR3150909  Geng, Yanlin; Gohari, Amin; Nair, Chandra; Yu, Yuanming

MR3150732  Jafari Rad, Nader; Jafari, Sayyed Heidar

MR3150714  Dashti, Mahshid; Nasr-Isfahani, Rasoul; Soltani Renani, Sima

MR3147532  Mozaffari, M. R.; Gerami, J.; Jablonsky, J.

MR3155081  Izadi, F. A.; Khoshnam, F.; Nabardi, K.

MR3147632  Zahed, Reza; Sharifi, Hesam

MR3147289  Komijani, M.; Reddy, J. N.; Eslami, M. R.

MR3147274  Thamburaja, P.; Jamshidian, M.
MR3155580  Tashiro, Tatsuya; Shimizu, Shohei; Hyvärinen, Aapo; Washio, Takashi

MR3150446  Emami, M.; Naserian, O. On the number of mutually disjoint cyclic designs. Trans. Comb. 3 (2014), no. 1, 7–13. (Reviewer: Dianhua Wu) 05B05

MR3150445  Mirafzal, S. Morteza On the symmetries of some classes of recursive circulant graphs. Trans. Comb. 3 (2014), no. 1, 1–7. 05C25 (05C60 68M10 68R10)


MR3149684  Abdollahi, Alireza; Jazaeri, Mojtaba Groups all of whose undirected Cayley graphs are integral. European J. Combin. 38 (2014), 102–109. 05C25


MR3148109  Cao, Huai-Dong; Catino, Giovanni; Chen, Qiang; Mantegazza, Carlo; Mazzieri, Lorenzo Bach-flat gradient steady Ricci solitons. *Calc. Var. Partial Differential Equations* 49 (2014), no. 1-2, 125–138. (Reviewer: Yawei Chu) 53C25 (53C44)


MR3146225  Navaei, Javad; Fatemi Ghomi, Seyyed Mohammad Taghi; Jolai, Fariborz; Mozdgir, Ashkan Heuristics for an assembly flow-shop with non-identical assembly machines


**MR3147478** Hegghernes, Pinar; van ’t Hof, Pim; Lévêque, Benjamin; Lokshtanov, Daniel; Paul, Christophe Contracting graphs to paths and trees. *Algorithmica* 68 (2014), no. 1, 109–132. 05C85 (05C38 68W05 68W20)


**MR3153122** Bang-Jensen, Jørgen; Bessy, Stéphane; Thomassé, Stéphan Disjoint 3-cycles in tournaments: a proof of the Bermond-Thomassen conjecture for tournaments. *J. Graph Theory* 75 (2014), no. 3, 284–302. 05C20 (05C70)

**MR3145383** Saedpanah, Fardin Well-posedness of an integro-differential equation with positive type kernels modeling fractional order viscoelasticity. *Eur. J. Mech. A Solids* 44 (2014), 201–211. (Reviewer: Maria Cesarina Salvatori) 45K05 (65M60 74D05 74H20 74H25 74H30)


MR3145843  Chen, Bai Fan; Ghorbani, Ebrahim; Wong, Kok Bin On the eigenvalues of certain Cayley graphs and arrangement graphs. *Linear Algebra Appl.* 444 (2014), 246–253. 05C50 (05C25 20C10)


MR3141628  Feng, Yan-Quan; Ghasemi, Mohsen; Yang, Da-Wei Cubic symmetric graphs of order 8p3. Discrete Math. 318 (2014), 62–70. (Reviewer: Liancui Zuo) 05C25 (05C70)


MR3138072  Bonamy, Marthe; Lévêque, Benjamin; Pinlou, Alexandre. Graphs with maximum degree $\Delta \geq 17$ and maximum average degree less than 3 are list 2-distance $(\Delta+2)$-colorable. *Discrete Math.*, 317 (2014), 19–32. 05C15 (05C35)


MR3134271  Soleymani, M.; Armandnejad, A. Linear preservers of circulant majorization on \( \mathbb{R}^n \). *Linear Algebra Appl.* 440 (2014), 286–292. (Reviewer: Chong Guang Cao) 15A86 (15B51)

MR3133714  Daneshpajouh, Hamid Reza; Daneshpajouh, Hamed; Malek, Fereshteh  An interesting proof of the nonexistence of a continuous bijection between \( \mathbb{R}^n \) and \( \mathbb{R}^2 \) for \( n \neq 2 \). *Involve* 7 (2014), no. 2, 125–127. 54Cxx


MR3131875  Klavžar, Sandi; Nadjafi-Arani, M. J. Wiener index in weighted graphs via unification of \( \Theta \)-classes. *European J. Combin.* 36 (2014), 71–76. 05C12 (05C22)


MR3130613  Ahmadi, Mohamadreza; Mojallali, Hamed; Wisniewski, Rafael Guaranteed cost $H_{\infty}$ controller synthesis for switched systems defined on semi-algebraic sets. *Nonlinear Anal. Hybrid Syst.* 11 (2014), 37–56. (Reviewer: Zhan Shu) 93D15 (34A60 93B36 93C30)


Dorbec, Paul; Montassier, Mickael; Ochem, Pascal. Vertex partitions of graphs into cographs and stars. J. Graph Theory 75 (2014), no. 1, 75–90. (Reviewer: Ching-Lueh Chang) 05C75 (05C10 05C70 68Q17)

Hajjabolhassan, Hossein; Taherkhani, Ali. On the circular chromatic number of graph powers. J. Graph Theory 75 (2014), no. 1, 48–58. 05C15

Zhou, Sanming. Unitary graphs. J. Graph Theory 75 (2014), no. 1, 37–47. (Reviewer: B. Naimeh Onagh) 05C25 (05C75 51E20)
An algebraic characterization of o-minimal and weakly o-minimal MV-chains. *J. Pure Appl. Algebra* 218 (2014), no. 1, 90–100. 03C64 (06D35)


Finite p-groups in which the normal closures of the non-normal cyclic subgroups have small index. *J. Algebra Appl.* 13 (2014), no. 2, 1350087, 7 pp. (Reviewer: Alireza Khalili Asboei) 20D15


MR3096846  Asboei, Alireza Khalili Characterizing $\text{PSL}_2(r)$ by its order and the number of its Sylow $r$-subgroups. *J. Algebra Appl.* 13 (2014), no. 1, 1350065, 6 pp. (Reviewer: Mohammad-Reza Darafsheh) 20D05 (20D06 20D20 20G40)


