
Izet Masic
Faculty of Medicine, University of Sarajevo, Sarajevo, Bosnia and Herzegovina

Corresponding author: Professor Emeritus Izet Masic, MD, PhD, FWAAS, FEASA, FIAHSI, FEFMI, FACMI, University of Sarajevo, Sarajevo, Bosnia and Herzegovina. President of Academy of Medical Sciences of BiH, Vice President of International Academy of Sciences and Arts in BiH, Member of World Academy of Arts and Sciences and European Academy of Sciences and Arts, Founding member of International Academy of Health Sciences Informatics. E-mail: izetmasic@gmail.com. ORCID ID: http://www.orcid.org/0000-0002-9080-5456.

doi: 10.5455/aim.2022.30.4-10
ACTA INFORM MED. 2022 MAR 30(1): 4-10
Received: Feb 20, 2022
Accepted: Mar 25, 2022

ABSTRACT
Acta Informatica Medica journal (www.actainformmed.org), as Biomedical Informatics journal, during past 30 years of existing played important role in distribution of knowledge and experience within this scientific field, by publishing contributions of the biomedical experts from worldwide and spreading of Biomedical informatics knowledge and experiences in scientific and academic community. Acta Informatica Medica journal has been founded in the year 1993 by Izet Masic and Zoran Rijanovic, as official journal of Bosnian-Herzegovinian Society of Medical Informatics (BHSMI). In the year 2019 Acta Informatica Medica has been accepted as official journal of the European Federation for Medical Informatics (www.efmi.org), besides 3 other journals: International Journal of Medical Informatics, Methods of Information in Medicine and European Journal of Biomedical Informatics. Journal Acta Informatica Medica is abstracted and indexed in 30 on-line data bases, including Pubmed, Pubmed Central, Scopus, Embase, Hinari, etc. The journal follows the Guidelines and recommendations of ICMJE, COPE, EASE, WAME, etc. as well as the recommendations of the “Sarajevo Declaration on Integrity and Visibility of Scholarly Journals”, accepted by 17 Editors of biomedical journals at “SWEP 2018” Conference held in Sarajevo and printed in the countries in South-Eastern Europe. The journal supports presentations at conferences held in Bosnia and Herzegovina. The abstract papers presented at “The Mediterranean Seminar on Science Writing, Editing and Publishing” – “SWEP 2016”, “SWEP 2018”; “SWEP 2020” and “SWEP 2021”, also found its place in the journal, by which we met our goal of promoting science and scientific publication at the area of Bosnia and Herzegovina and other countries in the region. Acta Informatica Medica has been ranked: Highest Impact Factor for 2011–2022 was 1.496 and Lowest Impact Factor for 2011–2022 was 0.59. During the year 2021 in Acta Informatica Medica journal was published 46 papers. From total amount published papers, 67.39% was original papers, where it was more published original papers in the journal than in the year 2020. Acta Informatica Medica has value of important metrics (last updated on November 16, 2021): Impact Score - 1.50, h-Index - 20, Rank - 15980, SJR - 0.267.

Keywords: Acta Informatica Medica, BHSMI, AMNuBiH, EFMI.

1. BACKGROUND
Acta Informatica Medica (www. actainformmed.org) is a peer-reviewed, open access journal which publish original articles, professional articles, reviews, viewpoints, and case studies, short communications and the Letters to editors (1-4). Acta covering issues in Biomedical and Medical/Health informatics, published by the Academy of Medical Sciences of Bosnia and Herzegovina (www.amn.ba) Journal is registered in National and University Library of Bosnia and Herzegovina in Sarajevo City with ISSN (Online): 1986-5988, and ISSN (Print): 0353-8109. An International Standard Serial Number (ISSN) is a unique code of 8 digits. It is used for the recognition of journals, newspapers, periodicals, and magazines in all kind of forms, be it print-media or electronic.

Issues are published quarterly; in March, June, September, and December. In case when Editorial
Board received enough papers during one year, it is possible to print additional issue as special issue of supplement.

Specific scope of interests of the journal relates to System and System analysis, Medical documentation, Electronic health records, Clinical Decision Making, Artificial intelligence, Expert systems, Science editing, E-learning in medicine, On-line biomedical databases, Information and Communication technologies, Health information systems, Science editing and publishing. Evidence-based articles reflecting progress of Medical informatics in Balkan and Mediterranean countries are prioritized (1, 2).

Acta Informatica Medica journal has been founded in the year 1993 by Izet Masic and Zoran Ridjanovic, as official journal of Bosnian-Herzegovinan Society of Medical Informatics (BHSMI). The first Editorial Board perform: Irfan Zulic, Mustafa Kulenovic, Kenan Arnautovic, Besim Prnjavorac, Nedzad Mehic, Haris Pandza, Marijan Dover, Ljubomir Kravec, Amra Redzepovic, Medija Zalihic (Figures 1-4) (1).

In the year 2019 Acta Informatica Medica journal has been accepted as official journal of the European Federation for Medical Informatics (www.efmi.org), besides 3 other journals: International Journal of Medical Informatics, Methods of Information in Medicine and European Journal of Biomedical Informatics. Journal Acta Informatica Medica is abstracted and indexed in 30 on-line data bases, including Pubmed, Pubmed Central, Scopus, Embase, Hinari, etc. The website of the journal (www.actainformmed.org) is refreshed in 2018, revised by Editorial Board and new members were included (regularly updated). The authors of the published articles in 2021 issues are from 22 countries (Bosnia and Herzegovina, Croatia, Cyprus, Germany, Grece, Iraq, India, Indonesia, Italy, Jordan, Republic Kosovo, North Macedonia, Norway, Poland, Saudi Arabia, Serbia, Slovenia, Sweden, Ukraine, United Arab Emirates, USA, and Vietnam). Acceptance rate in 2021 was 42.3% (Table 1).

The journal in its function and everyday work is following the recommendations and guidelines of ICJME, COPE, EASE, WAME, etc. as well as the recommendations of “Sarajevo Declaration on Integrity and Visibility of Scholarly Journals”, accepted by 17 Editors of biomedical journals which are printed in the countries in South-Eastern Europe at "SWEP 2018" Conference held in Sarajevo (5-9).

Acta Informatica Medica is one of the six biomedical journals from Bosnia and Herzegovina deposited in da-
Mediterranean countries.

place in the journal, by w

Writing, Editing and Publishing

Herzegovina. The journal supports,

visibility of schola

WAME, etc. as well as the recommendations of “Sarajevo Declaration on integrity and
everyday work is following the recommendations and p

journal Acta Informatica Medica was 187 (it shou

index (SJR) is 0.275 (Scimagojr.com Index H (for 2017) for Acta Informatica

were included) and regularly updated. The authors of the published art

funding

of charge. The tendency for the future is to preserve the Open Access model, while enabling

should be secondary and the qu

presenting

journal opened to PhD students, and they embrace it through

biomedical information technology, both in Bosnia and Herze

in that manner opened
to this population, and began with the practice of populating

2. INFOMETRICS OF THE JOURNAL IN THE PAST

Basic Medical Sciences, Medical Archives, Acta Medica

Academia, Medicinski Glasnik, Acta Medica Saliniana,

Folia Medica and Journal of Health Studies) (3). The pur-

pose of the journal is to continue the publishing of both–

its online and print edition, four times a year. The journal

in its function and everyday work is Importance of Acta

Informatica Medica journal in spreading of Biomedical

informatics knowledge and experiences in scientific and

academic community. The journal began with the prac-
tice to publish the articles of PhD students free of charge,

and in that manner opened to this population, and began

with the practice of populating biomedical information

technology, both in Bosnia and Herzegovina and in the

region. The journal opened to PhD students, and they

embrace it through the official letter to the Editor, pres-

ting their goals and problems. The tendency for the

future is to preserve the Open Access model, while en-

abling funding through the subscription and purchase of

printed publications.

2. INFOMETRICS OF THE JOURNAL IN THE PAST

Acta Informatica Medica is a journal covering the tech-
nologies/fields/categories related to Medicine (miscella-
neous) (Q3). It is published by Avicena Publishing in Sa-

Table 1. Acceptance rate of Acta Informatica Medica in the period 2012-

Table 2. Highly Cited Articles in Acta Informatica Medica Journal during

Table 3. Acta Informatica Medica Impact Score 2020

Figure 5. Distribution of articles according to type in the year 2020

Figure 6. Cover page of the first issue of Acta Informatica Medica in 1993 (1)

tabases Pubmed (in addition to the Bosnian Journal of Basic Medical Sciences, Medical Archives, Materia So-
cio-Medica, Medicinski Glasnik (Zenica), Acta Medica

Academica), and Scopus (besides the Bosnian Journal of

<table>
<thead>
<tr>
<th>Year</th>
<th>Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>43.0</td>
</tr>
<tr>
<td>2013</td>
<td>47.0</td>
</tr>
<tr>
<td>2014</td>
<td>39.0</td>
</tr>
<tr>
<td>2015</td>
<td>37.0</td>
</tr>
<tr>
<td>2016</td>
<td>37.3</td>
</tr>
<tr>
<td>2017</td>
<td>28.7</td>
</tr>
<tr>
<td>2018</td>
<td>32.7</td>
</tr>
<tr>
<td>2019</td>
<td>37.8</td>
</tr>
<tr>
<td>2020</td>
<td>42.2</td>
</tr>
</tbody>
</table>

Table 2. Highly Cited Articles in Acta Informatica Medica Journal during
year 2012-2020

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Author Listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>17th International Conference on Informatics, Management and Technology in Health Care, Athens, Greece, 5-7 July, 2019</td>
<td>Izet Masic</td>
</tr>
<tr>
<td>A Fuzzy Expert System to Predict the Risk of Postpartum Hemorrhage</td>
<td>Yussriya Hanan Aoomah · Song-Yuan Xu · Li-Xia Cao · Sheng-Lian Liang · Gloria Francisca Nur-Allornuor · Xiao-Yan Ying</td>
</tr>
<tr>
<td>A Review of Machine Learning Approaches in Assisted Reproductive Technologies</td>
<td>Behnaz Raaf · Reza Ferodusi</td>
</tr>
<tr>
<td>Adoption of Hospital Information System Among Nurses: a Technology Acceptance Model Approach</td>
<td>Hosein Barzkekar · Farzad Ebrahimzadeh · Jake Luo · Mahtab Karami · Zahra Robati · Parvin Goodarzi</td>
</tr>
<tr>
<td>An Assessment of Health Information Systems Through the Perspective of Computer Engineering Students and Medical Students</td>
<td>Esra Sevimli · Elif Naz Altingoz · Nur Sisman Kıtapçı · Okan Cem Kıtapçı · Leyla Koskak · Meral Yay · Pınar Kılıç Aksu · Gonca Mumcu</td>
</tr>
</tbody>
</table>

Table 3. Acta Informatica Medica Impact Score 2020

<table>
<thead>
<tr>
<th>Year</th>
<th>Impact Score (IS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021/2022</td>
<td>Coming Soon</td>
</tr>
<tr>
<td>2020</td>
<td>1.50</td>
</tr>
<tr>
<td>2019</td>
<td>0.72</td>
</tr>
<tr>
<td>2018</td>
<td>0.86</td>
</tr>
<tr>
<td>2017</td>
<td>0.70</td>
</tr>
<tr>
<td>2016</td>
<td>0.84</td>
</tr>
<tr>
<td>2015</td>
<td>0.59</td>
</tr>
<tr>
<td>2014</td>
<td>0.76</td>
</tr>
</tbody>
</table>
The Society of Medical Informatics of Bosnia and Herzegovina (OMI B&H) was founded 1988, as member of former Yugoslavian Association of Medical Informatics, founded also in 1988, and member of EFMI in 1990. The Society has now over 100 members. The Society became member of EFMI in 1994 (EFMI Council in Lisbon), and member of IMIA in 1994 (General Assembly in Dresden).

The Society carries out the following activities:
- Promotion and improvement of informatics within the health-care system, health insurance and bio-medical research,
- Engagement of experts in the field of medical informatics in B&H on development and establishment of health care information systems,
- Assistance in research, development and professional work in the field of medical informatics in B&H,
- Distribution and development of technical information in the field of medical informatics in B&H,
- Assistance in education of medical informatics experts,
- Exchange of professional experience on national and international level,
- Publishing activities in the field of medical informatics.

Acta Informatica Medica (AIM) is official journal of the Society for medical informatics of Bosnia and Herzegovina, founded in 1993. Journal discusses the basic methodology within the field of medical informatics, like: fundamentals of processing data, information and data base knowledge, classification systems in medicine, health information systems, using of information technologies in health care systems, etc. It publishes original papers, professional papers, reviews, case reports, news, etc.

Prof. Izet Masic, MD, PhD, Editor-In-Chief

Figure 7. Impressum of Acta Informatica Medica journal a few years ago, with cover pages of different issues (3)
European Federation for Medical Informatics – the Most Influential Promoter of Medical Informatics Development for the Past 45 Years

Izet Masic
Academy of Medical Sciences of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

Corresponding author: Professor Emeritus Izet Masic, MD, PhD, FWAAS, FEASA, FIHAIDI, EFMI, EACMI, E-mail: izetmasic@gmail.com. ORCID ID: http://orcid.org/0000-0002-9080-5456.

European Federation for Medical Informatics – the Most Influential Promoter of Medical Informatics Development for the Past 45 Years

ABSTRACT
Medical informatics, as much as it is a result of evolution as planned philosophy, have its roots in the history of information technology and medicine. Development of medical informatics started in the fifties of the 20th century. In the period after Second World War USA was the leading country in the field of Computer science and the leader in using the first computers in medicine and healthcare services. The development of information and communication technologies (ICT) during the last two decades of 20th century was particularly important for development of medical informatics, with great influence of Internet by medical professionals at every level of health care system. Comprehensive and essential contents on medical informatics, but also the aspects nurtured by the main „schools of Medical informatics“ (Anglo-Saxon (Abbot, Anderson, etc.), French (Gremy, Remond, etc.), German (Reichertz), etc.), American (Colien, Green, et al.), Middle and East Europe (Dezelic, Masic, Zvarova, Naszlady, Mihalas, etc.), whose terms “Health Informatics” (Abbot) and „Medical Informatics“ (Gremy and Reichertz) have entered the European and world medical literature. For those studying the subject or working in the field, the experiences of others who use Information and Communication Technologies (ICTs) for the better of health care can provide a necessary perspective. In promotion and spreading the knowledge and experiences of the medical informatics as scientific and academic discipline in the world, great impact was given by IMIA and its “branch associations”. For those studying the subject or working in the field, the experiences of others who use Information and Communication Technologies (ICTs) for the better of health care can provide a necessary perspective. In promotion and spreading the knowledge and experiences of the medical informatics as scientific and academic discipline in the world, great impact was given by IMIA and its “branch associations” at every continent. But, most influential association became European Federation for Medical Informatics (EFMI), established on September 11th 1976 in Copenhagen with members of 10 national representatives (Barry Barber (UK), Antonio Perens de Talens (Italy), Francois Gremy (France), Rolf Hansen (Norway), Mogens Jorgensen (Denmark), Hans Peterson (Sweden), Peter Leo Reichertz (Germany), Jan Roukens (Netherlands), Jan van Egmond (Belgium) and Ilikka Vaananen (Finland) who adopted Statute of EFMI and other documents and prepared the first MIE Conference in Cambridge (UK) in 1978. Today EFMI represent leading European medical informatics professional organization representing 28 European countries and institutional members. EFMI is organized as a non-profit organization concerned with the theory and practice of Information Science and Technology within the Health and Health Sciences sector, in a European context. The goals set of EFMI are: a) To advance international co-operation and dissemination of information in Medical Informatics on a European basis; b) To promote high standards in the application of medical informatics; c) To promote research and development in medical informatics; d) To encourage high standards in education in medical informatics; and e) To function as the autonomous European Regional Council of IMIA. Author of this article described the facts about important events which EFMI, with contribution of national societies, members of EFMI, organized during 45 years of existence, including important facts about the influential medical informatics experts. Finally, author shortly described important facts about the history of development of Health informatics in Bosnia and Herzegovina and South-Eastern Europe, including facts about his activities during long period of his participation in IMIA General Assembly and EFMI Council. There he was very actively involved in a lot of activities, including organization of 22nd MIE Conference in Sarajevo in 2009.

Keywords: Health/Medical/Biomedical informatics, International Medical Informatics Association (IMIA), European Federation for Medical Informatics (EFMI).
the importance of the journals from where these citations come.

SJR acts as an alternative to the Journal Impact Factor (or an average number of citations received in last 2 years). This journal has an h-index of 20. The best quartile for this journal is Q3. According infometric statistics for the last ten years - 2013-2022, we can stated great improvement: Scimagojr.com Index H (for 2017) for Acta Informatica Medica was 12, while scimagojr.com index (SJR) was 0.275 (2). On the aforementioned page, the total number of citations from the journal Acta Informatica Medica was 187 (it should be noted that the number is only from the journals that are covered by Scopus). Self-citation (the number of citations from a journal citing article to articles published by the same journal) was 7.

For the period 2013-2017, the Google Scholar h5 index was 17 and the h5 median was the 28. For the year 2020, the overall rank of Acta Informatica Medica is 15980. According to SCImago Journal Rank (SJR), this journal is ranked 0.267 (Figures 9 and 10). Journal Impact IF Ranking: In the Medicine (all) research field, the Quartile of Acta Informatica Medica is Q2. Acta Informatica Medica has been ranked: Highest Impact Factor for 2011-2022 was 1.496 and Lowest Impact Factor for 2011-2022 was 0.59 (11).

During the year 2021 in Acta Informatica Medica journal was published 46 papers. From total amount published papers, 67.39% was original papers, where it was more published original papers in the journal than in the year 2020. In the year 2021 in Acta was published: 1 editorial, 31 original paper, 1 professional paper, 1 systematic review, 5 reviews, 2 case reports, 1 dilemma, 1 the letter to editor, 2 obituaries, 1 newsletter. (Table 2 and Figure 5).

Acta Informatica Medica journal has next Important Metrics values for 2021 (last updated on November 16, 2021): Impact Score is 1.50, h-Index is 20, Rank is 15980, SJR is 0.267 (Figures 9-10). The impact score shown here is equivalent to the average number of times documents published in a journal/conference in the past two years have been cited in the current year (i.e., Cites / Doc. (2 years)). It is based on Scopus data and can be a little higher or different compared to the impact factor (IF) produced by Journal Citation Report of Thomson Reuters metrics.

The impact score (IS) 2020 of Acta Informatica Medica is 1.50, which is computed in 2021 as per its definition (Figures 9 and 10). Acta Informatica Medica IS is increased by a factor of 0.78 and approximate percentage change is 108.33% when compared to preceding year 2019, which shows a rising trend. The impact score (IS), also denoted as Journal impact score (JIS), of an academic journal is a measure of the yearly average number of citations to recent articles published in that journal. Acta Informatica Medica has an h-index of 20. It means 20 articles of this journal have more than 20 number of citations. The h-index is a way of measuring the productivity and citation impact of the publications. The h-index is defined as the maximum value of h such that the given journal/author has published h papers that have each been cited at least h number of times (10-12).

Presented facts above are based on Scopus data - Acta Informatica Medica journal, during past 30 years of existing played important role in distribution of knowledge and experiences within this scientific field, by publishing contributions of the biomedical experts from worlwide. This scientific
journal, during the past 30 years of existing, played great role in spreading of Medical informatics knowledge and experience within scientific and academic community.

- Authors contribution: Author contributed in all steps of the preparation of this Editorial, including final proofreading.
- Conflicts of interest: The author declare no conflicts of interest.
- Financial support and sponsorship: None.

REFERENCES