Croatian Operational Research Review is viewed/indexed in: Current Index to Statistics, DOAJ, EBSCO host, EconLit, Genamics Journal Seek, INSPEC, Mathematical Reviews, Current Mathematical Publications (MathSciNet), Proquest, SCOPUS, Web of Science Emerging Sources Citation Index (WoS ESCI), Zentralblatt für Mathematik/Mathematics Abstracts (CompactMath).

ISSN: 1848–0225 Print
ISSN: 1848–9931 Online
UDC: 519.8 (063)
Croatian Operational Research Review

Croatian Operational Research Review (CRORR) is an open access scientific journal published bi-annually. The main publisher of the CRORR journal is the Croatian Operational Research Society (CRORS). Starting from 2014, Number 1, co-publishers of the journal are:

- University of Zagreb, Faculty of Economics & Business,
- J. J. Strossmayer University of Osijek, Faculty of Economics in Osijek,
- University of Split, Faculty of Economics, Business and Tourism, and
- J. J. Strossmayer University of Osijek, Department of Mathematics.

Aims and Scope of the Journal

The aim of the Croatian Operational Research Review journal is to provide high quality scientific papers covering the theory and application of operational research and related areas, mainly quantitative methods and machine learning. The scope of the journal is focused, but not limited to the following areas: combinatorial and discrete optimization, integer programming, linear and nonlinear programming, multiobjective and multicriteria programming, statistics and econometrics, macroeconomics, economic theory, games control theory, stochastic models and optimization, banking, finance, insurance, simulations, information and decision support systems, data envelopment analysis, neural networks and fuzzy systems, and practical OR and application.

Occasionally, special issues are published dedicated to a particular area of OR or containing selected papers from the International Conference on Operational Research.

Papers blindly reviewed and accepted by two independent reviewers are published in this journal.

Publication Ethics and Publication Malpractice Statement

CRORR journal is committed to ensuring ethics in publications and quality of articles. Conformance to standards of ethical behaviour is therefore expected of all parties involved: Authors, Editors, Reviewers, and the Publisher. Before submitting or reviewing a paper read our Publication ethics and Publication Malpractice Statement available at the journal homepage: [http://www.hdoi.hr/crorr-journal](http://www.hdoi.hr/crorr-journal).

The journal is financially supported by the Ministry of Science, Education and Sports of the Republic of Croatia, and by its co-publishers. All data referring to the journal with full papers texts since the beginning of its publication in 2010 can be found in the Hrcak database – Portal of scientific journals of Croatia (see [http://hrcak.srce.hr/crorr](http://hrcak.srce.hr/crorr)).

Open Access Statement

Croatian Operational Research Review is an open access journal which means that all content is freely available without charge to the user or his/her institution. Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles in the journal without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access. The journal has an open access to full text of all papers through our Open Journal System ([http://hrcak.srce.hr/ojs/index.php/crorr](http://hrcak.srce.hr/ojs/index.php/crorr)) and the Hrcak database ([http://hrcak.srce.hr/crorr](http://hrcak.srce.hr/crorr)).
Croatian Operational Research Review is viewed/indexed by:

- Current Index to Statistics
- Directory of Open Access Journals (DOAJ)
- EBSCO host
- EconLit
- Genamics Journal Seek
- INSPEC
- Mathematical Reviews, Current Mathematical Publications (MathSciNet)
- Proquest
- SCOPUS
- Web of Science Emerging Sources Citation Index (WoS ESCI)
- Zentralblatt für Mathematik/Mathematics Abstracts (CompactMath)
Editorial Office and Address:

Editors-in-Chief: Zrinka Lukač
Josip Arnerić

Co-Editors: Anita Čeh Časni
Mirjana Čižmešija
Danijel Grahovac
Goran Lešaja
Snježana Pivac
Blanka Škrabić Perić

Technical Editors: Josip Arnerić
Vedran Kojić

Design: Ivan Ferenčak

Contact:
Croatian Operational Research Society (CRORS), Trg J. F. Kennedyja 6,
HR-10000 Zagreb, Croatia
URL: http://www.hdoi.hr/crorr-journal
e-mail: crorr.journal@hdoi.hr

Editorial Board

ZDRAVKA ALJINOVIĆ, Faculty of Economics, Business and Tourism, University of Split, Croatia, e-mail: zdravka.aljinovic@efst.hr

JOSIP ARNERIĆ, Faculty of Economics & Business, University of Zagreb, Croatia, e-mail: jarneric@efzg.hr

ZORAN BABIĆ, Faculty of Economics, Business and Tourism, University of Split, Croatia, e-mail: zoran.babic@efst.hr

VALTER BOLJUNČIĆ, Faculty of Economics and Tourism “Dr. Mijo Mirković”, University of Pula, Croatia, e-mail: vbolj@efpu.hr

ĐULA BOROZAN, Faculty of Economics in Osijek, J. J. Strossmayer University of Osijek, Croatia, e-mail: borozan@efos.hr

JAMES COCHRAN, Culverhouse College of Commerce, University of Alabama, USA, e-mail: jcochran@culverhouse.ua.edu

ANITA ČEH ČASNI, Faculty of Economics & Business, University of Zagreb, Croatia, e-mail: aceh@efzg.hr

MIRJANA ČIŽMEŠIJA, Faculty of Economics & Business, University of Zagreb, Croatia, e-mail: mcizmesija@efzg.hr

KSENIIJA DUMIČIĆ, Faculty of Economics & Business, University of Zagreb, Croatia, e-mail: kdumicic@efzg.hr

MARGARETA GARDJIAN KEDŽO, Faculty of Economics & Business, University of Zagreb, Croatia, e-mail: mgardijan@efzg.hr

JOSE RUI FIGUERIA, Instituto Superior Tecnico, Technical University of Lisbon, Portugal, e-mail: figureira@ist.utl.pt

DANIJEK GRAHOVAC, Department of Mathematics, J. J. Strossmayer University of Osijek,