

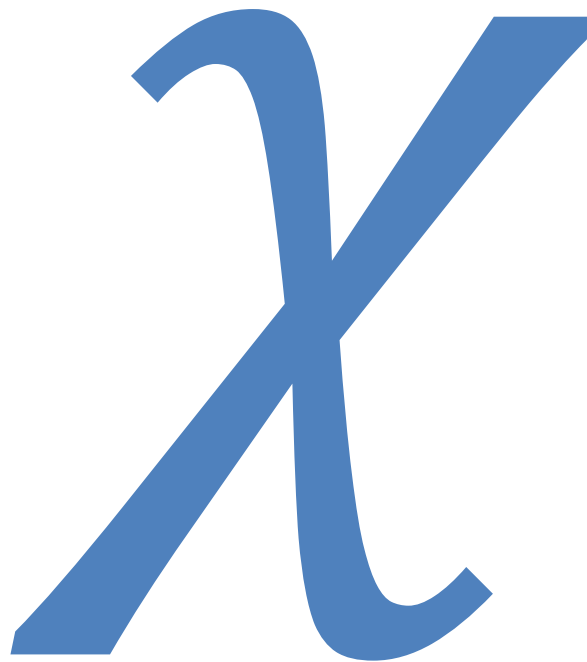
ISSN 2086-0382

E-ISSN 2477-3344

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 6, Issue 3, November 2020

A large, stylized blue letter 'X' is centered on the page. The letter is composed of two thick, curved strokes that intersect in the middle, creating a modern and artistic look.

CAUCHY	Vol. 6	No. 3	Pages: 100 - 161	Malang November 2020	ISSN 2086-0382	E-ISSN 2477-3344
--------	--------	-------	---------------------	-------------------------	-------------------	---------------------

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 6, Issue 3, November 2020

CAUCHY is a mathematical journal published twice a year on May and November by the Mathematics Department, Faculty of Science and Technology, Universitas Islam Negeri Maulana Malik Ibrahim Malang. This journal includes research papers, literature studies, analysis, and problem solving in Mathematics (Algebra, Analysis, Statistics, Computing and Applied Mathematics).

EDITORIAL BOARD

- Editor in Chief** : Dr. Sri Harini, M.Si, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia.
- Managing Editor** : Mohammad Jamhuri, M.Si, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia.
Juhari, M.Si, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia.
- Editorial Board** : **Prof Hadi Susanto**, Department of Mathematical Sciences, University of Essex and Department of Mathematics of Khalifa University, United Kingdom
Mario Rosario Guarracino, Computational and Data Science Laboratory High Performance Computing and Networking Institute National Research Council of Italy, Italy
Kartick Chandra Mondal, Jadavpur University, Salt Lake Campus, India
Rowena Alma L. Betty, University of the Philippines Diliman, Philippines
Subanar Seno, Gadjah Mada University, Indonesia
Toto Nusantara, State University Of Malang, Indonesia
Edy Tri Baskoro, Institut Teknologi Bandung, Indonesia
Eridani Eridani, Airlangga University, Indonesia
Abdul Halim Abdullah, University of Technology Malaysia, Malaysia
Kusno, University of Jember, Indonesia
Slamin, University of Jember, Indonesia
Riswan Efendi, UIN Sultan Syarif Kasim Riau, Indonesia
Arief Fatchul Huda, UIN Sunan Gunung Djati Bandung, Indonesia
Usman Pagalay, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia
Abdussakir, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia

ISSN : 2086-0382

E-ISSN : 2477-3344

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 6, Issue 3, November 2020

EDITORIAL BOARD

Ari Kusumastuti, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia

Fachrur Rozi, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia

Elly Susanti, Universitas Islam Negeri Maulana Malik Ibrahim Malang, Indonesia

Assistant Editor : Mohammad Nafie Jauhari, M.Si, Maulana Malik Ibrahim State Islamic University of Malang, Indonesia.

Editorial Office

Mathematics Department,
Maulana Malik Ibrahim State Islamic University of Malang
Gajayana st. 50 Malang, East Java, Indonesia 65144
Phone (+62) 81336397956, Faximile (+62) 341 558933
e-mail: cauchy@uin-malang.ac.id

ISSN : 2086-0382

E-ISSN : 2477-3344

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 6, Issue 3, November 2020

FOCUS AND SCOPE

CAUCHY-Jurnal Matematika Murni dan Aplikasi is a mathematical journal published twice a year in May and November by the Mathematics Department, Faculty of Science and Technology, Maulana Malik Ibrahim State Islamic University of Malang.

We welcome authors for original articles (research), review articles, interesting case reports, special articles illustrations that focus on the Mathematics Pure and Applied. Subjects suitable for publication include, but are not limited to the following fields of:

1. Actuarial
2. Algebra
3. Analysis
4. Applied
5. Computing
6. Econometrics
7. Statistics

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 6, Issue 3, November 2020

INDEXING AND ABSTRACTING

CAUCHY-Jurnal Matematika Murni dan Aplikasi has been covered (indexed and abstracted) by following services:

1. **DOAJ** - (2016-)-(<https://doaj.org/toc/2477-3344>)
2. **Dimensions**
3. **Moraref** - (2015-)-(<http://moraref.or.id/index.php/browse/index/36>)
4. **OneSearch Indonesia** - (2015-)-([http://onesearch.id/Search/Results?filter\[\]=repoId:IOS2732](http://onesearch.id/Search/Results?filter[]=repoId:IOS2732))
5. **Mendeley** - (2013-)-(<https://www.mendeley.com/groups/5034091/cauchy/papers/>)
6. **Indonesian Scientific Journal Database (ISJD)** - (2013-)-(<http://isjd.pdii.lipi.go.id/index.php/Direktori-Jurnal.html>)
7. **Google Scholar** - (2009-)-(https://scholar.google.co.id/citations?hl=en&view_op=list_works&gmla=AJsN-F60moFBk7Q0o2Q-9-XUIMca1zI8OZ9Lp2EhCtubhL9dCisxNYH9sAiEAU0g0UDT8tyM6Jk3Z666Zu46VRsBYZ6Vjc2a_w&user=dr K-5HkAAAAJ)
8. **IPI** - (2009-)-(<http://id.portalgaruda.org/?ref=browse&mod=viewjournal&journal=5272>)

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 6, Issue 3, November 2020

TABLE OF CONTENTS

Matrix Approach To The Direct Computation Method For The Solution of Fredholm Integro-Differential Equations of The Second Kind With Degenerate Kernels	100 – 108
Forecasting Financial System Stability Using Vector Error Correction Model Approach	109 – 116
Inclusion Properties of The Homogeneous Herz-Morrey	117 – 121
Local Dynamics of an SVIR Epidemic Model with Logistic Growth	122 – 132
Super Total Labeling (a,d)- edge Antimagic on the Firecracker Graph	133 – 139
The Rule of Hessenberg Matrix for Computing Determinant of Centrosymmetric Matrices	140 – 148
The Metric Dimension and Local Metric Dimension of Relative Prime Graph	149 – 161