



HIMPUNAN MATEMATIKA INDONESIA

The Indonesian Mathematical Society (IndoMS)

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APPLICATION LETTER

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Dear Prof. Helge Holden

The Indonesian Mathematical Society (IndoMS), Indonesia's IMU Adhering Organization, proposes to change the Republic of Indonesia's IMU membership from Group I to Group II. IndoMS will continue to pay the corresponding annual membership dues.

With this letter, we attach an overview of the state of mathematics research in Indonesia, including a summary of recent developments. We thank the Executive Committee of the IMU for the kind attention.

Best regards,

President of IndoMS period 2020-2022

Prof. Dr. Indah Emilia Wijayanti, M.Si.

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Mathematics is a lively and growing field in Indonesia. Over the last two years, the number of Mathematics professors has risen by 14.07%. Members of the Indonesian Mathematical Society (IndoMS) have been active in SEAMS (Southeast Asian Mathematical Society). Every year, some members of IndoMS give lectures, workshops, or be invited/keynote speakers in several International Conferences/Workshops. Related to the research funding, IndoMS' members are actively doing research and every year they get funding from the Indonesian Ministry of Research, Technology and Higher Education, internal funding from their university, International fund. However, it has waned recently, as the government has had to allocate funds to COVID-19 relief efforts. From 2019 to 2020, government funding for mathematical research has decreased by 2.99% and a further decrease of 10.95% occurred from 2020 to 2021. As the COVID-19 situation improves, IndoMS hopes to see an increase in funding which will support the research efforts of Indonesian mathematicians.

12 June 2021

Dr. Ikha Magdalena

Head of the IndoMS Committee for Collaborative Development

Indonesian Mathematical Society (IndoMS)

Status Report 2021

The number of universities in the country where mathematics is taught: 502

The list of universities with research activities in mathematics:

No	University Name	Region
1	Universitas Sumatera Utara	Sumatera
2	Universitas Muslim Nusantara	
3	Universitas Syiah Kuala	
4	Universitas Muhammadiyah Sumatera Utara	
5	Institut Agama Islam Negeri Cot Kala Langsa	
6	Universitas Islam Negeri Sumatera Utara	
7	Universitas Negeri Medan	
8	Universitas Malikussaleh	
9	Sekolah Tinggi Ilmu Komputer Tunas Bangsa	
10	Institut Agama Islam Negeri Malikussaleh	
11	Sekolah Tinggi Manajemen Informatika Komputer Royal	
12	Sekolah Tinggi Manajemen Informatika Komputer Tunas Bangsa	
13	Universitas Riau	
14	Universitas Islam Negeri Sultan Syarif Kasim Riau	
15	Universitas Islam Riau	
16	Universitas Andalas	

17	Universitas Bung Hatta Padang	
18	Universitas Maritim Raja Ali Haji	
19	Sekolah Tinggi Keguruan dan Ilmu Pendidikan Persatuan Guru Republik Indonesia Sumatera Barat	
20	Universitas Negeri Padang	
21	Universitas Sriwijaya	
22	Universitas Lampung	
23	Institut Teknologi Sumatera	
24	Universitas Padjadjaran	Java
25	Universitas Indonesia	
26	Institut Pertanian Bogor	
27	Institut Teknologi Bandung	
28	Universitas Negeri Jakarta	
29	Universitas Islam Negeri Syarif Hidayatullah	
30	Universitas Islam Bandung	
31	Universitas Sultan Ageng Tirtayasa	
32	Universitas Indraprasta Persatuan Guru Republik Indonesia	
33	Universitas Muhammadiyah Profesor Doktor Hamka	
34	Sekolah Tinggi Keguruan dan Ilmu Pendidikan Siliwangi	
35	Universitas Pendidikan Indonesia	
36	Universitas Katolik Parahyangan	
37	Universitas Muhammadiyah Sukabumi	
38	Universitas Kuningan	
39	Universitas Pelita Harapan	

40	Universitas Sebelas Maret		
41	Universitas Gadjah Mada		
42	Universitas Soedirman		
43	Universitas Kristen Satya Wacana		
44	Universitas Negeri Semarang		
45	Universitas Negeri Yogyakarta		
46	Universitas Sarjanawiyata Tamansiswa Yogyakarta		
47	Universitas Muhammadiyah Surakarta		
48	Institut Teknologi Sepuluh Nopember		
49	Universitas Brawijaya		
50	Universitas Jember		
51	Universitas Negeri Surabaya		
52	Universitas Airlangga		
53	Universitas Negeri Malang		
54	Sekolah Tinggi Keguruan dan Ilmu Pendidikan Al Hikmah Surabaya		
55	Universitas Persatuan Guru Republik Indonesia Ronggolawe Tuban		
56	Sekolah Tinggi Keguruan dan Ilmu Pendidikan Persatuan Guru Republik Indonesia Pacitan		
57	Sekolah Tinggi Keguruan dan Ilmu Pendidikan Persatuan Guru Republik Indonesia Jombang		
58	Universitas Muhammadiyah Gresik		
59	Universitas Udayana		Bali, East Nusa Tenggara, West Nusa Tenggara
60	Universitas Pendidikan Ganesha Bali		
61	Universitas Mahasaraswati Bali		

62	Universitas Persatuan Guru Republik Indonesia Bali	
63	Universitas Mataram Nusa Tenggara Barat	
64	Universitas Cendana Nusa Tenggara Timur	
65	Universitas Tanjungpura	Kalimantan
66	Insititut Teknologi Kalimantan	
67	Sekolah Tinggi Keguruan dan Ilmu Pendidikan Persatuan Guru Republik Indonesia Banjarmasin	
68	Universitas Hasanuddin	Sulawesi
69	Universitas Tadulako	
70	Universitas Halu Oleo	
71	Universitas Gorontalo	
72	Universitas Negeri Makassar	
73	Universitas Pattimura Ambon	Maluku
74	Universitas Cendrawasih	Papua and New Guinea

Estimated number of professors in mathematics in the country: 187

The list of mathematical societies in the country and the number of their members

Mathematical society	Number of members
Indonesian Mathematical Society (IndoMS)	4698
Indonesian Mathematics Educators Society (I-MES)	923

Indonesian Algebra Society/ Komunitas Peminat Aljabar (Aljabar)	130
Indonesian Mathematical Analysis Society/ Komunitas Analisis Matematika Indonesia (KAMINDO)	N/A
Forum Pendidikan Tinggi Statistika (FORSTAT)/Forum of Statistics Higher Education	172
Persatuan Aktuaris Indonesia (PAI)/Society of Actuaries of Indonesia	602
Indonesian Combinatorial Society (InaCombs)	N/A

A list of mathematicians whom the country considers well-known in the worldwide mathematical community

Name	Affiliation	Research interests
Hadi Susanto	University of Essex	Nonlinear Waves, Solitons, Pattern Formation, Applied Mathematics

Fadil Santosa	University of Minnesota	Image Processing, Computer-Assisted methods, Inverse problems (Differential equations), Machine Learning, Optimal Designs (Statistics), Photonics, Signal processing
Edy T. Baskoro	Bandung Institute of Technology	Graph Theory, Combinatorics, Cryptography, Coding
Victor Ginting	University of Wyoming	Numerical Analysis, Scientific Computing, Flow in Porous Media, Multiscale Modeling, Error Estimations
John Harlim	Pennsylvania State University	Applied mathematics: parameter estimation, machine learning, manifold learning, operator estimation, data assimilation
Edy Soewono	Bandung Institute of Technology	Dynamical Systems, Optimization, Population Dynamics, Applied Mathematics

An estimation of the number of mathematical publications that have been produced by mathematicians living in the country and that have appeared in respected mathematical journals in recent years

We are able to estimate that the total number of mathematical publications produced by Indonesian since the founding of IndoMS is 318450.

A list of the names of the mathematical journals published in the country

- Journal on Mathematics Education
- Electronic Journal of Graph Theory and Applications
- Journal of Mathematical and Fundamental Sciences
- Journal of the Indonesian Mathematical Society

A brief overview of educational activities (2019-2020)

Activity	Date(s) held
IndoMS School 2019	3-5 October 2019
R Training for Mathematics Teachers in the Sukoharjo Regency	7 August 2019
Forum of Mathematics Teachers	1 August 2019
Short Course on Actuarial Mathematics	13-29 November 2020
Online Coaching on the Curricula of Undergraduate Actuarial Sciences Programmes	20 September 2020
Webinar on the Standard Curriculum of an Undergraduate Actuarial Sciences Programme	8 June 2020

General Lecture on the Role of Mathematical Competency in Building Competitive Human Resources in the Industry 4.0 Era	24 January 2019
Training on Innovative Learning	5 December 2019
National Seminar on PISA for Teachers and PISA Mathematical Literacy Competition	15 December 2019
Webinar on Online Mathematics Teaching: Problems, Methods, and Solutions	11 July 2020
IndoMS General Lecture	28 October 2019
Meeting of Indonesian Mathematics Education Department Heads	19 February 2020
Indonesian Mathematics Educators Webinar: Mathematics Education Department Heads on Independent Campuses	13 May 2020
Indonesian Mathematics Educators Webinar: Online Learning Strategy for COVID-19 Pandemic-Era Education	10 June 2020
Indonesian Mathematics Educators Webinar: Focus Group Discussion (FGD) on Independent Curricula for Undergraduate Mathematics Education Programmes	22 July 2020
Socialization of Publication Guidelines and Meeting Results of Indonesian Mathematics Education Department Heads	21 October 2020
Focus Group Discussion (FGD) and Workshop on Curriculum Development for	3-4 December 2020

Mathematics Education Programmes	
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