FINAL REPORT

The 8th SEAMS UGM International Conference on Mathematics and Its Applications, July 29 – August 1, 2019
(https://seams-ugm.id)

Dr. FAJAR ADI KUSUMO, S.Si, M.Si.

MATHEMATICS DEPARTMENT
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA
2019
History

SEAMS (South East Asian Mathematical Society) and UGM (Universitas Gadjah Mada) are committed to develop researches in Mathematics. SEAMS-UGM, which is a quadrennial event, was first held in 1989 and last held on August 18-21, 2015 in Yogyakarta, Indonesia. In 2011 there are 298 participants and over than 60 participants come from other foreign countries, whereas in 2015 there are 361 participants consisting of 267 participants come from Indonesia and 94 participants come from foreign countries. In the following graph (Graph 1), it shows the increasingness of the number of participants at the last three SEAMS-UGM conferences.

![Graph 1. The number of participants at the last three SEAMS-UGM conferences](image-url)
Further, Graphs 2 below shows the countries distribution of the foreign participants at the last three SEAMS-UGM conferences.

Graph 2. Distribution of SEAMS-UGM Participating Countries at the last three SEAMS-UGM conferences.

The 8th SEAMS-UGM 2019 Conference: Scientific Program

The 8th SEAMS-UGM 2019 Conference was conducted on July 29 – August 1, 2019. The scientific program include keynote lectures, invited lectures, contributed presentations, and mini-symposia on selected topics. The objectives of the conference are to provide a forum for researchers, lecturers, educators and students to exchange ideas, to communicate and discuss research findings and new advances in mathematics in the wide area of mathematics. This conference is also aimed to deepen mathematical concepts and widen its application through collaboration with industries. It is also hoped that the conference will enhance collaboration between researchers from the countries in the region and those from outside the country.

Topics to be covered include (but are not limited to) are all the research areas of Pure and Applied Mathematics, Statistics, Actuarial Science, Mathematics Education, and Computer Science: Analysis, Applied Analysis, Algebra, Applied Algebra, Algorithms, Theoretical Computer Science, Dynamical Systems, Control Theory and Automation, Discrete Applied Mathematics, Fuzzy Sets and Systems and Fuzzy Logic, Mathematical Modelling (including but
not limited to Mathematical Physics, Mathematical Chemistry, Mathematical Biology and
Mathematical Medicine), Optimization and Operational Research, Quality Theory of Differential
Equations, Financial Mathematics, Actuarial Science, Neural Network, Theoretical and Applied
aspects of Computational Geometry, Mathematics Education, Statistics, Probability, etc.

The 8th SEAMS-UGM International Conference attended by 304 participants and guests
(from 21 countries and 4 continents), including 33 invited speakers (from Indonesia, Canada, the
Netherlands, Iran, the United States, Singapore, Turkey, France, Japan, Australia, Malaysia,
Switzerland, Hong Kong and China). The conference present two keynote speakers, Prof. Ken
Seng Tan from the University of Waterloo, Canada and Prof. Basuki Widodo as President of the
Indonesian Mathematics Society (IndoMS). During 4-days conference, there are 199 papers that
has been presented in the parallel sessions by the participants. The detailed information can be
found on the website https://seams-ugm.id. The participants of the SEAMS-UGM 2019
Conference is given in the following graphs.
Besides SEAMS, this SEAMS-UGM conference is also supported by the International Mathematical Union (IMU) which is a professional organization that houses mathematicians around the world and the Indonesian Mathematics Society (IndoMS) which is a professional organization for mathematicians in Indonesia. Support from IMU is granted to the participants who came from developing countries in the Southeast Asia (see Appendix).

In the series of conference, there are some meetings which held during the conference, i.e. the SEAMS Council Meeting for the SEAMS leaders, South East Asian Woman Mathematical Meeting (SEAWM) for female mathematicians at the Southeast Asian level, three mini-symposium activities namely Algebra, Data Science, and Actuarial field, and six workshop activities: Coding Theory and Cryptography, Partial Differential Equations and Singular Perturbation, Algebraic Graph, GLM, and General Insurance, Differential Geometry with Tensor Applications, and Data Visualization with R, which in total involved 15 presenters from abroad and 10 presenters from Indonesia.

By observing the disappearance of scientific barriers in mathematics and mathematics with other disciplines, the theme of this conference is "Deepening Mathematical Concepts for Wider Application through Multidisciplinary Research and Industries Collaborations". The Mathematics Department UGM as part of the mathematical community in Southeast Asia and international shows its participation as an active member of SEAMS by providing a forum for discussion and exchange of information about current and future trends in mathematics and applied research to researchers and mathematics users in the ASEAN region in particular and international in general.

In addition, this conference is an encouragement for the multidisciplinary research. To realize it, the committee invites the plenary speakers from both Indonesia and other countries who were very competent in their respective fields whereas the papers presented at this conference will be published in the Proceedings of the International AIP Proceedings, indexed by Scopus, or Thales Mathematical Journal by considering the results of the review paper. Furthermore, to improve the quality of education in secondary schools, this conference also held teacher workshops supported by IndoMS in Central Java and DIY, and Subject Teacher Forum (MGMP) in Yogyakarta.
The conference consists of several sessions:

- **Keynote Lectures**

  The *keynote speaker* in this session are Prof. Basuki Widodo (President of Indonesian Mathematical Society (IndoMS), Institut Teknologi Sepuluh November, Indonesia) and Prof. Ken Seng Tan (University of Waterloo, Kanada).

- **Plenary Invited Lectures on Mini Symposia**

  There are two mini-symposium which held during the SEAMS-UGM Conference 2019:

  i. **Algebra Mini-symposium on Module and Ring Theory (AMMRT) 2019 in Honor of Sri Wahyuni’s and Irawati’s 60th Birthday**

     Speakers: Prof. Dr. Ahmad Erfanian (Ferdowsi University, Iran), Prof. Kar Ping Shum (The Chinese University of Hong Kong), and Dr. Ayesha Asloob Qureshi (Sabancı University, Turkey).

  ii. **Mini-Symposium on Data Science**

     Speakers: Dr. Mardhani Riasetiawan (Universitas Gadjah Mada), Syafri Bahar, S.Si., M.Sc. (VP Data Science GOJEK), Ghifari Daulagiri, S.Si. (Head of Trust and Safety Bukalapak), and Mohammad Digjaya, S.Si. (Data Science DANA).

  iii. **Mini-Symposium on Current Issues in Actuarial Science**

     Speakers: Sumarjono, FSAI (BPJS Ketenagakerjaan), Ocke Kurniandi, FSAI (BPJS Kesehatan), Dr. Adhitya Ronnie Effendie, M.Sc. (Universitas Gadjah Mada), Paul Setio Kartono, FSAI (PAI), Asep Suwondo, FSAI (OJK), and Dadang Sukresna (AAUI).

- **Plenary Invited Lectures**

  In this session, all *invited speakers* give their talk according to the schedule arranged in Appendix.

- **Workshop and Summer Course**

  There are five workshops and one Summer Course, i.e.

  i. **Workshop on Partial Differential Equations and Singular Perturbation**

     Speakers: Dr. W. T. Van Horssen (TU Delft, Belanda), Prof. Dr. Ferdinand Verhulst (Utrecht University, Belanda), and Dr. J. M. Tuwankotta (Institut Teknologi Bandung).
ii. Workshop on Algebraic Graph  
Speaker: Prof. Dr. Ahmad Erfanian (Ferdowsi University, Iran).

iii. Workshop on Generalized Linear Model and General Insurance  
Speaker: Prof. David Landriault, Ph.D. (University of Waterloo, Kanada).

iv. SEAMS-UGM-ITB Summer Course on Coding Theory and Cryptography  
Speakers: Dr. Al. Sutjiana, Dr. Diah Junia Eksi Palupi, Dr. Mardhani Riasetiawan, Dr. Santi Indarjani, Dr. Lin Sok, Dr. Rifi Ferdiana, Dr. Intan Muchtadi-Alamsyah, Dr. Pekik Nurwantoro, Dr. Raditya Weda Bomantara, Dr. Lin Fuchun, Mr. Risman Adnan, Dr. Romar de la Cruz, Dr. Guo Jian, Dr. Khoa Nguyen, Dr. Ivan Tjuawinata, Dr. Chang Zuling, Dr. Benjamin Tan, Dr. Somphong Jitman, Dr. Jakub Breier, Dr. Frederic Ezerman, and Dr. Buket Ozkaya.

v. Workshop on Differential Geometry with Tensor Applications  
Speaker: Dr. Dipankar De (India).

vi. Workshop on Data Visualization with R  
Speaker: Matthias Templ, Ph.D. (ZHAW School of Engineering, Swiss).

• Parallel Sessions  
In this session, all participants give 20 minutes talk according to the schedule arranged in Appendix.

In the SEAMS-UGM Conference 2007, 2011 and 2015, there are 15, 17, and 18 invited speakers, respectively. This number increased to 33 invited speakers who gave presentations at the plenary session and mini-symposium at the SEAMS-UGM conference 2019 which consisted of experts from various fields in mathematics and came from 12 (twelve) countries including Indonesia, which depicted in Graph 3.
The following is a list of the keynote speakers and invited speakers of The 8th SEAMS-UGM 2019 International Conference on Mathematics and Its Applications:

**Keynote Speaker**

a. Prof. Ken Seng Tan (University of Waterloo, Canada)

b. Prof. Basuki Widodo (President of Indonesian Mathematical Society, Institut Teknologi Sepuluh November, Indonesia)

**Invited Speakers**

A. Invited Speakers on Plenary Invited Lectures (22 pembicara)
   a. Dr. W. T. van Horssen (TU Delft, The Netherlands)
   b. Assoc. Prof. Shelton Peiris (The University of Sydney, Australia)
   c. Prof. Chen Zehua (National University of Singapore, Singapore)
   d. Prof. Mitsuru Sugimoto (Nagoya University, Japan)
   e. Prof. Alexander Zimmermann (Université de Picardie, France)
   f. Prof. Shelton Peiris (The University of Sydney, Australia)
   g. Prof. Soeparna Darmawijaya (Universitas Gadjah Mada, Indonesia)
h. Prof. Dr. Engku Muhammad Nazri Engku Abu Bakar (Universiti Utara Malaysia, Malaysia)
i. Dr. F. M. Spieksma (University of Leiden, The Netherlands)
j. Atok Zulijanto, Ph.D. (Universitas Gadjah Mada, Indonesia)
k. Imam Solekhudin, Ph.D. (Universitas Gadjah Mada, Indonesia)
l. Dr. Eridani (Universitas Airlangga, Indonesia)
m. Prof. Drs. Marjono, M.Phil., Ph.D. (Universitas Brawijaya, Indonesia)
n. Prof. Dr. Wono Setia Budhi (Institut Teknologi Bandung, Indonesia)
o. Prof. Michael N. Katehakis (Rutgers Business School Newark and New Brunswick, The United State of America)
p. Dr. Ayesha Asloob Qureshi (Sabanci University, Turkey)
q. Prof. David Landriault, Ph.D. (University of Waterloo, Canada)
r. Prof. Ahmad Erfanian (Ferdowsi University of Mashhad, Iran)
s. Prof. Ling San, Ph.D. (Nanyang Technological University, Singapore)
t. Matthias Templ, Ph.D. (Zhaw Zurich University of Applied Sciences, Switzerland)

B. Invited Speakers on Plenary Invited Lectures on Mini Symposia
   a. Dr. Ayesha Asloob Qureshi (Sabanci University, Turkey)
   b. Prof. Ahmad Erfanian (Ferdowsi University of Mashhad, Iran)
   c. Prof. Kar-Ping Shum (The Chinese University of Hongkong)
   d. Dr. Mardhani Riasetiawan (Universitas Gadjah Mada)
   e. Syafri Bahar, S.Si., M.Sc. (VP Data Science GOJEK)
   f. Ghifari Daulagiri, S.Si. (Head of Trust and Safety Bukalapak)
   g. Mohammad Digjaya, S.Si. (Data Science DANA)
   h. Sumarjono, FSAI (BPJS Ketenagakerjaan)
   i. Ocke Kurniandi, FSAI (BPJS Kesehatan)
   j. Dr. Adhitya Ronnie Effendie, M.Sc. (Universitas Gadjah Mada)
   k. Paul Setio Kartono, FSAI (PAI)
   l. Asep Suwondo, FSAI (OJK)
   m. Dadang Sukresna (AAUI)
C. Invited Speakers on Workshops
   a. Dr. W. T. Van Horssen (TU Delft, Belanda)
   b. Prof. Dr. Ferdinand Verhulst (Utrecht University, Belanda)
   c. Dr. J. M. Tuwankotta (Institut Teknologi Bandung)
   d. Prof. Dr. Ahmad Erfanian (Ferdowsi University, Iran)
   e. Prof. David Landriault, Ph.D. (University of Waterloo, Kanada)
   f. Dr. Dipankar De (India)
   g. Matthias Templ, Ph.D. (ZHAW School of Engineering, Swiss)
   h. Dr. Al. Sutjiana (UGM)
   i. Dr. Diah Junia Eksi Palupi (UGM)
   j. Dr. Mardhani Riasetianan (UGM)
   k. Dr. Santi Indarjani
   l. Dr. Lin Sok
   m. Dr. Rifi Ferdiana
   n. Dr. Intan Muchtadi-Alamsyah (ITB)
   o. Dr. Pekik Nurwantoro (UGM)
   p. Dr. Raditya Weda Bomantara
   q. Dr. Lin Fuchun
   r. Mr. Risman Adnan
   s. Dr. Romar de la Cruz
   t. Dr. Guo Jian
   u. Dr. Khoa Nguyen
   v. Dr. Ivan Tjuawinata
   w. Dr. Chang Zuling
   x. Dr. Benjamin Tan
   y. Dr. Somphong Jitman
   z. Dr. Jakub Breier
   aa. Dr. Frederic Ezerman
   bb. Dr. Buket Ozkaya.
There are two steering committee groups involved in this conference:

**International Steering Committees**

a. Jose Maria P. Balmaceda, Ph.D. (President of SEAMS, University of the Philippines College of Science, Philippines)
b. Prof. Ludovic Rifford (President of CIMPA )*
c. Prof. Ling San, Ph.D. (ex-SEAMS President, Nanyang Technological University, Singapore)
d. Dr. W. T. van Horssen (TU Delft, Netherlands)
e. Prof. Shelton Peiris (The University of Sydney, Australia)
f. Prof. Chen Zehua (National University of Singapore, Singapore)
g. Prof. Michael N. Katehakis (Rutgers Business School Newark and New Brunswick, The United State of America)

* in confirmation

**Local Steering Committee:**

a. Prof. Basuki Widodo (President of IndoMS, Institut Teknologi Sepuluh November, Indonesia)
b. Dr. Intan Muchtadi (Vice President of SEAMS, ex-President of IndoMS, ex-officio, Institut Teknologi Bandung, Indonesia)
c. Prof. Edi Tri Baskoro (ex-President of SEAMS, Institut Teknologi Bandung, Indonesia)
d. Prof. Sri Wahyuni (ex-President of IndoMS, Universitas Gadjah Mada, Indonesia)
e. Prof. Widodo (ex-IndoMS President, Universitas Gadjah Mada, Indonesia)
f. Prof. Supama (Universitas Gadjah Mada, Indonesia)
g. Prof. Ch. Rini Indrati (Universitas Gadjah Mada, Indonesia)
h. Prof. Dedi Rosadi (Universitas Gadjah Mada, Indonesia)
i. Dr. Lina Aryati (Universitas Gadjah Mada, Indonesia)
j. Dr. Irwan Endrayanto (Universitas Gadjah Mada, Indonesia).

The composition of the core committee is as follows:

1. Chairman : Dr. Fajar Adi Kusumo
2. Vice-chairman I : Dr. Herni Utami
3. Vice-chairman II : Dr. Nanang Susyanto
Conference participants present their research papers in 20 minutes, after the abstract was selected by the assessment team. The following list is the assessment team of research papers to be presented at *The 8th SEAMS-UGM 2019 International Conference on Mathematics and Its Applications* adalah sebagai berikut:

**PROCEEDING TEAM**

“The 8th SEAMS-UGM 2019 International Conference on Mathematics and Its Applications”

**Chief Editor** : Dr. Herni Utami (Universitas Gadjah Mada, Indonesia)

**Managing Editor** :
1. Dr. Yeni Susanti (Universitas Gadjah Mada, Indonesia)
2. Dr. Nanang Susyanto (Universitas Gadjah Mada, Indonesia)
3. Dr. Fajar Adi Kusumo (Universitas Gadjah Mada, Indonesia)

**Editorial Board** :

1. **Algebra**
   a. Prof. Alexander Zimmerman (Université de Picardie, Perancis)
   b. Prof. Ahmad Erfanian (Ferdowsi University of Mashhad, Iran)
   c. Dr. Ayesha Asloob Qureshi (Sabanci University, Turki)
   d. Dr. Indah Emilia W. (Universitas Gadjah Mada, Indonesia)
   e. Dr. Yeni Susanti (Universitas Gadjah Mada, Indonesia)
   f. Dr. Sutopo (Universitas Gadjah Mada, Indonesia)
   g. Dr. Budi Surodjo, M.Si. (Universitas Gadjah Mada, Indonesia)
   h. Dr. Kiki Ariyanti Sugeng (Universitas Indonesia, Indonesia)
   i. Prof. M. Salman A.N. (Institut Teknologi Bandung, Indonesia)
2. Analysis

a. Prof. Mitsuru Sugimoto (Nagoya University, Jepang)
b. Prof. Milan Tvrdy (Czech Academy of Sciences, Ceko)
c. Prof. Ch. Rini Indrati (Universitas Gadjah Mada, Indonesia)
d. Prof. Supama (Universitas Gadjah Mada, Indonesia)
e. Dr. Atok Zulijanto (Universitas Gadjah Mada, Indonesia)
f. Dr. Yudi Soeharyadi (Institut Teknologi Bandung, Indonesia)
g. Prof. Hendra Gunawan (Institut Teknologi Bandung, Indonesia)
h. Prof. M. Wono Setyabudhi (Institut Teknologi Bandung, Indonesia)
i. Dr. rer. nat. Herry Pribawanto Suryawan (Universitas Sanata Dharma, Indonesia)
j. Prof. Drs. Marjono, M.Phil., Ph.D. (Universitas Brawijaya, Indonesia)
k. Dr. Idha Sihwaningrum (Universitas Jenderal Soedirman, Indonesia)

3. Applied Mathematics

a. Prof. W.T. van Horssen (TU Delft, Belanda)
b. Prof. Dr. Widodo (Universitas Gadjah Mada, Indonesia)
c. Prof. Dr. Salmah (Universitas Gadjah Mada, Indonesia)
d. Dr. Lina Aryati (Universitas Gadjah Mada, Indonesia)
e. Dr. Irwan Endrayanto (Universitas Gadjah Mada, Indonesia)
f. Prof. Edy Soewono (Institut Teknologi Bandung, Indonesia)
g. Dr. Hengki Tasman (Universitas Indonesia, Indonesia)

4. Statistics and Computational Statistics

a. Prof. Don McNeil (Macquarie University, Australia)
b. Prof. Dr. Sri Haryatmi (Universitas Gadjah Mada, Indonesia)
c. Prof. Dedi Rosadi (Universitas Gadjah Mada, Indonesia)
d. Dr. Abdurrakhman (Universitas Gadjah Mada, Indonesia)
e. Danardono, Ph.D. (Universitas Gadjah Mada, Indonesia)
f. Prof. Subanar, Ph.D. (Universitas Gadjah Mada, Indonesia)
g. Prof. Dr. Budi Nurani Ruchjana (Universitas Padjajaran, Indonesia)
h. Dr. Suhartono, S.Si., M.Sc. (Institut Teknologi Surabaya, Indonesia)
i. Prof. Dr. I Nyoman Budiantara (Institut Teknologi Surabaya, Indonesia)
j. Prof. Dr. Ir. I Wayan Mangku, M.Sc. (Institut Pertanian Bogor, Indonesia)
k. Dr. Dhoriva Urwatul Wustqa (Universitas Negeri Yogyakarta, Indonesia)
l. Prof. Nur Iriawan, M.Ikom., Ph.D. (Institut Teknologi Surabaya, Indonesia)
m. Novriana Sumarti, S.Si., M.Si., Ph.D. (Institut Teknologi Bandung, Indonesia)

5. Computational Mathematics

a. Dr. Sumardi (Universitas Gadjah Mada, Indonesia)
b. Imam Solekhudin, Ph.D. (Universitas Gadjah Mada, Indonesia)
c. Dr. Mardhani Riasetiawan (Universitas Gadjah Mada, Indonesia)
d. Afiahayati, Ph.D (Universitas Gadjah Mada, Indonesia)
e. Sudi Mungkasi, Ph.D. (Universitas Sanata Dharma, Indonesia)
f. Prof. Leo Hari Wiryanto (Institut Teknologi Bandung, Indonesia)
g. Dr. Didit Adytia (Telkom University, Indonesia)

6. Actuarial

a. Prof. Ken Seng Tan, Ph.D. (University of Waterloo, Kanada)
b. Asst. Prof. Zhu Wenjun (Nanyang Technological University, Singapura)
c. Dr. Aditya Ronnie (Universitas Gadjah Mada, Indonesia)
d. Danang Teguh Q, Ph.D. (Universitas Gadjah Mada, Indonesia)
e. Dr. Ferry Jaya Permana, Drs., M.Si., ASAI (Universitas Katolik Parahyangan, Indonesia)
In the last four SEAMS-UGM conferences, there are many research papers have been published. The following graph (Graph 4) states the number of papers published in the SEAMS-UGM proceedings.

Graph 4. The number of papers published in the SEAMS-UGM proceedings
In 2015, 75 papers presented at the SEAMS-UGM 2015 conference and published in AIP Coference Proceedings from AIP Publishing publishers. In the 8th SEAMS-UGM 2019 conference, the papers will be reviewed (double-blind review) by two assessors who came from Indonesia or abroad to determine their eligibility to be published in the proceedings of the conference. The committee offers two types of publications (see Table 1). First, proceedings published at the AIP Conference Proceedings Series with AIP Publishing publishers (http://scitation.aip.org/content/aip/proceeding/aipcp), indexed by SCOPUS, as many as 75 papers (depending on the results of paper reviews). Only good quality papers will be accepted and published in the AIP Conference Proceedings Series. Second, to accommodate papers that were not accepted for publication in the proceedings, it would be recommended to be published in the Thales Mathematical Journal, Department of Mathematics UGM.

<table>
<thead>
<tr>
<th>No.</th>
<th>Journal</th>
<th>Publisher</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>AIP Conference Proceedings</td>
<td>AIP Publishing</td>
<td>Indexed by SCOPUS ISSN 0094243X</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://aip.scitation.org/journal/apc">http://aip.scitation.org/journal/apc</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="https://jurnal.ugm.ac.id/jmt/">https://jurnal.ugm.ac.id/jmt/</a></td>
<td></td>
</tr>
</tbody>
</table>

Table 1. List of Proceeding and Journal
APPENDIX

A. Schedule

Monday, July 29, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30 - 08:30</td>
<td>Registration</td>
</tr>
<tr>
<td>08:30 - 09:10</td>
<td>Opening ceremony</td>
</tr>
<tr>
<td>08:30 - 08:40</td>
<td>Art performance</td>
</tr>
<tr>
<td>08:40 - 08:45</td>
<td>Conference report by Chairman</td>
</tr>
<tr>
<td>08:45 - 08:50</td>
<td>Speech of President SEAMS</td>
</tr>
<tr>
<td>08:50 - 09:10</td>
<td>Speech of Rector and opening</td>
</tr>
<tr>
<td>09:10 - 09:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>09:30 - 10:30</td>
<td>Keynote Lecture 1: Prof Ken Seng Tan</td>
</tr>
<tr>
<td>10:35 - 11:15</td>
<td>Plenary Lecture 1: Prof. Ling San, Ph.D</td>
</tr>
<tr>
<td>11:20 - 12:00</td>
<td>Plenary Lecture 2: Prof. Mitsuru Sugimoto</td>
</tr>
<tr>
<td>12:00 - 13:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00 - 13:40</td>
<td>Plenary Lecture 3: Prof. Dr. Engku Muhammad Nazri Engku Abu Bakar</td>
</tr>
<tr>
<td>13:45 - 14:25</td>
<td>Plenary Lecture 4: Prof. Shelton Peiris</td>
</tr>
<tr>
<td>14:30 - 15:10</td>
<td>Plenary Lecture 5: Prof. Chen Zehua</td>
</tr>
<tr>
<td>15:10 - 15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30 - 17:30</td>
<td>Parallel session 1</td>
</tr>
<tr>
<td>18:00 - 22:00</td>
<td>Gala Dinner</td>
</tr>
<tr>
<td>Time</td>
<td>Activity</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>07:30 - 08:30</td>
<td><strong>Parallel session 2</strong>: Prof. Xianning Liu and a contributed speaker</td>
</tr>
<tr>
<td>08:40 - 09:40</td>
<td><strong>Keynote Lecture 2</strong>: Prof Basuki Widodo</td>
</tr>
<tr>
<td>09:40 - 10:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:00 - 10:40</td>
<td><strong>Plenary Lecture 6</strong>: Prof. Marjono</td>
</tr>
<tr>
<td>10:45 - 11:25</td>
<td><strong>Plenary Lecture 7</strong>: Dr. Imam Solekhudin</td>
</tr>
<tr>
<td>11:30 - 12:10</td>
<td><strong>Plenary Lecture 8</strong>: Prof. Alexander Zimmermann</td>
</tr>
<tr>
<td>12:10 - 13:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00 - 15:00</td>
<td><strong>Mini-symposium on Data Science (Room Yudhistira)</strong>:</td>
</tr>
<tr>
<td></td>
<td>13:00 – 13:40 Syafri Bahar, S.Si., M.Sc. (VP Data Science GOJEK)</td>
</tr>
<tr>
<td></td>
<td>13:40 – 14:00 Contributed talks</td>
</tr>
<tr>
<td></td>
<td><strong>Mini-symposium on Current Issues in Actuarial Science</strong></td>
</tr>
<tr>
<td></td>
<td><strong>(Room Abimanyu, Wisanggeni)</strong></td>
</tr>
<tr>
<td></td>
<td>Sumarjono, FSAI (BPJS Ketenagakerjaan)</td>
</tr>
<tr>
<td></td>
<td>Ocke Kurniandi, FSAI (BPJS Kesehatan)</td>
</tr>
<tr>
<td></td>
<td>Adhitya Ronnie Effendie (UGM)</td>
</tr>
<tr>
<td></td>
<td><strong>Algebra Mini-symposium on Module and Ring Theory</strong></td>
</tr>
<tr>
<td></td>
<td><strong>(Room Arjuna, Gatotkaca)</strong></td>
</tr>
<tr>
<td></td>
<td>13:00 – 13:30 Prof. Kar Ping Shum</td>
</tr>
<tr>
<td></td>
<td>13:30 – 14:00 Prof. Alexander Zimmermann</td>
</tr>
<tr>
<td></td>
<td>14:00 – 15:00 Occasion to Prof. Sri Wahyuni and Prof. Irawati</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30 - 17:30</td>
<td><strong>Parallel Session 3</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Mini-symposium on Data Science (Room Yudhistira)</strong>:</td>
</tr>
<tr>
<td></td>
<td>15:30 – 16:10 Mohammad Digiaya S.Si. (Data Scientist DANA)</td>
</tr>
<tr>
<td></td>
<td>16:00 – 17:30 Contributed talks</td>
</tr>
<tr>
<td></td>
<td><strong>Mini-symposium on Current Issues in Actuarial Science</strong></td>
</tr>
<tr>
<td></td>
<td><strong>(Room Abimanyu, Wisanggeni)</strong></td>
</tr>
<tr>
<td></td>
<td>15:30 - 16:10 Paul Setio Kartono, FSAI (PAI)</td>
</tr>
<tr>
<td></td>
<td>16:10 - 17:30 Contributed talks</td>
</tr>
<tr>
<td></td>
<td><strong>Algebra Mini-symposium on Module and Ring Theory</strong></td>
</tr>
<tr>
<td></td>
<td><strong>(Room Bima, Arjuna, Gatotkaca)</strong></td>
</tr>
<tr>
<td></td>
<td>15:30 – 17:30 Contributed talks</td>
</tr>
<tr>
<td>18:00 - 22:00</td>
<td><strong>South East Asian Women Mathematicians Meeting 2019 (SEAWM 2019)</strong></td>
</tr>
<tr>
<td>Time</td>
<td>Activity</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 07:30 - 08:30 | **Parallel session 4**  
|             | Room Yudistira: Educations  
|             | Room Bima: Applied Mathematics  
|             | Room Arjuna: Applied Mathematics  
|             | Room Gatotkaca: Applied Mathematics  
|             | Room Abimanyu: Statistics  
|             | Room Wisanggeni: Analysis and Geometry  
|             | Room Antareja: Analysis and Geometry  |
| 08:40 - 09:20 | **Plenary Lecture 9**: Prof. Dr. Soeparna Darmawijaya  |
| 09:20 - 09:40 | Coffee Break  |
| 09:40 - 10:20 | **Plenary Lecture 10**: Prof. Michael Katehakis  |
| 10:25 - 11:05 | **Plenary Lecture 11**: Dr. F. M. Spieksma  |
| 11:10 - 11:50 | **Plenary Lecture 12**: Dr. Eridani  |
| 11:50 - 13:00 | Lunch  |
| 13:00 - 15:00 | **Parallel session 5**  
|             | Mini-symposium on Data Science (Room Yudistira):  
|             | 13:00 – 13:40 Dr. Mardhani Riasetiawan (Universitas Gadjah Mada)  
|             | 13:40 – 15:00 Contributed talks  
|             | Mini-symposium on Current Issues in Actuarial Science  
|             | Room Wisanggeni, Antareja:  
|             | Asep Suwondo, FSAI (OJK)  
|             | Dadang Sukresna (AAUI)  
|             | Algebra Mini-symposium on Module and Ring Theory  
|             | (Room Bima, Arjuna, Gatotkaca, Abimanyu):  
|             | 13:00 – 13:30 Prof. Dr. Ahmad Erfanian  
|             | 13:30 – 14:00 Dr. Ayesha Asloob Qureshi  
|             | 14:00 – 15:00 Contributed talks  
| 15:00 - 15:30 | Coffee Break  |
| 15:30 - 17:30 | **Parallel Session 6**  
|             | Mini-symposium on Data Science (Room Yudhistira):  
|             | 15:30 – 16:10 Ghifari Daulagiri, S.Si. (Head of Trust and Safety Bukalapak)  
|             | 16:10 – 17:30 Contributed talks  
|             | Mini-symposium on Current Issues in Actuarial Science  
|             | Room Abimanyu, Wisanggeni, Antareja:  
|             | Contributed talks  
|             | Algebra Mini-symposium on Module and Ring Theory  
|             | (Room Bima, Arjuna, Gatotkaca):  
<p>|             | Contributed talks  |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:10 - 08:50</td>
<td><strong>Plenary Lecture 13:</strong> Dr. Atok Zulijanto</td>
</tr>
<tr>
<td>08:50 - 09:30</td>
<td><strong>Plenary Lecture 14:</strong> Dr. David Landriault</td>
</tr>
<tr>
<td>09:30 - 09:50</td>
<td>Coffee break</td>
</tr>
<tr>
<td>09:50 - 10:30</td>
<td><strong>Plenary Lecture 15:</strong> Dr. W. T. van Horssen</td>
</tr>
<tr>
<td>10:35 - 11:15</td>
<td><strong>Plenary Lecture 16:</strong> Prof. Dr. Wono Setya Budhi</td>
</tr>
<tr>
<td>11:20 - 12:00</td>
<td><strong>Plenary Lecture 17:</strong> Matthias Templ, Ph.D</td>
</tr>
<tr>
<td>12.00 - 13.00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00 - 15.00</td>
<td><strong>Mathematical Meeting for Teacher (Ballroom)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Parallel session 7</strong></td>
</tr>
<tr>
<td></td>
<td>Room Yudistira: Computational Science</td>
</tr>
<tr>
<td></td>
<td>Room Bima: Applied Mathematics</td>
</tr>
<tr>
<td></td>
<td>Room Arjuna: Applied Mathematics</td>
</tr>
<tr>
<td></td>
<td>Room Gatotkaca: Applied Mathematics</td>
</tr>
<tr>
<td></td>
<td>Room Abimanyu: Statistics</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30 - 16:30</td>
<td><strong>Mathematical Meeting for Teacher (Ballroom)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Parallel session 8</strong></td>
</tr>
<tr>
<td></td>
<td>Room Yudistira: Educations</td>
</tr>
<tr>
<td></td>
<td>Room Bima: Applied Mathematics</td>
</tr>
<tr>
<td></td>
<td>Room Arjuna: Applied Mathematics</td>
</tr>
<tr>
<td></td>
<td>Room Gatotkaca: Applied Mathematics</td>
</tr>
<tr>
<td>16.30 - 17.15</td>
<td><strong>Closing ceremony</strong></td>
</tr>
</tbody>
</table>