

# MINING IN ASIA INTERNATIONAL SYMPOSIUM

# THE 8<sup>TH</sup> SOCIETY OF MINING PROFESSORS REGIONAL MEETING 2018

FINAL CIRCULAR

## TENTATIVE PROGRAM & GUIDE



Institut Teknologi Bandung, Indonesia  
25 -28 JULY 2018

## BACKGROUND

Recent data from USGS shows that minerals and coal production from Asian region is increasing significantly in the last decade and even for some minerals such as aluminum, nickel and copper ores as well as coal the production from Asian countries reaches more than 50% of global production. This is an indication of increasing number of mining activities in those countries which is subsequently followed by increasing demand of mining professionals.

The development of mining industry in developing country is always generating several issues, among others the optimum economic benefit to the home country, suitable policy for mining investment, national mining professional vs expatriates, environmental impact management or local social and economic challenges. In short, those issues are related to the sustainable development of mining.

Such important issues in mining industry development including mining education will be discussed in an international symposium Mining in Asia. Sharing of experiences from different countries or regions will be the main goal of this event.

This symposium is an integrated activity with Society of Mining Professors (SOMP) Regional Meeting which will be held on July 26th – 28th, 2018.

This Society of Mining Professors regional meeting will be preceded by an international symposium to obtain the latest updates on mining in Asia and its future prospect.

Institut Teknologi Bandung will host The 8th Society of Mining Professors (SOMP) Regional Meeting 2018 with the theme “Mining Development in Asia: Challenges and Opportunities for Asian Mining Education” through sustainable mining practices. The Society of Mining Professors is a vibrant Society representing the global academic community and committed to making a significant contribution to the future of the minerals disciplines.

The main goal of the Society is to guarantee the scientific, technical, academic and professional knowledge required to ensure a sustainable supply of minerals for mankind. The Society facilitates information exchange, research and teaching partnerships and other collaborative activities among its members.

The 8th SOMP Regional Meeting gives a platform to academics, researchers, government officials, professionals and other stakeholders an opportunity to interact, exchange and analyse the challenges and opportunities within the mining development.

# ORGANIZING COMMITTEES

## MINING IN ASIA: INTERNATIONAL SYMPOSIUM

### NATIONAL STEERING COMMITTEE

Prof. Dr. Rudy Sayoga Gautama (Chair)  
Prof. Dr. Sudarto Notosiswoyo, M.Eng.  
Prof. Dr. Made Astawa Rai, DEA.  
Prof. Dr. Irwandy Arif, M.Sc.  
Prof. Dr. Komang Anggayana, M.S.  
Prof. Dr. Budi Sulistianto, M.T.  
Prof. Dr. Ridho Kresna Wattimena, M.T.  
Assoc. Prof. Dr.-Ing. Aryo Prawoto Wibowo, M.Eng.  
Assoc. Prof. Dr. Eddi Agus Basuki, M.Sc.

### INTERNATIONAL COMMITTEE

Prof. Bruce Hebblewhite, University of New South Wales, Australia  
Prof. Zhongxue Li, University of Science and Technology Beijing, China  
Prof. Juergen Kretschmann, TH Georg Agricola, Bochum, Germany

### ORGANIZING COMMITTEE

Chairman : Assoc. Prof. Dr.-Ing. Aryo Prawoto Wibowo, M.Eng.  
Vice Chair : Assist. Prof. Dr. Ginting Jalu Kusuma  
Secretariat : Assoc. Prof. Mohamad Nur Heriawan, S.T., M.T., Ph.D.  
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Ir. Teti Indriati, MT.  
Nabyl An Najmy, ST  
Fidelis Elizabeth, ST  
Murni Naomi Hotmauli, ST  
Program : Assoc. Prof. Dr.Eng. Syafrizal, S.T., M.T.  
Assist. Prof. Dr.Eng. Nuhindro Priagung Widodo, S.T., M.T.  
Ihsan Ahmad, ST. MT.  
Logistic : Simon Heru Prasetyo, S.T., M.Sc., Ph.D.  
Assist. Prof. Tri Karian, S.T., M.T.  
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Assoc. Prof. Edy Sanwani, MT., Ph.D.  
Assoc Prof. Dr. Mont. M. Zaki Mubarak, ST., MT.  
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Media and Publication : Assist. Prof. Dr.phil.nat., Agus Haris Widayat, S.T., M.T.  
Assist. Prof. Arie Naftali Hawu Hede, S.T., M.T., PhD.  
Assist. Prof. Firly Rachmaditya Baskoro, S.T., M.T.  
Assist. Prof. Muhammad Abdur Rasyid, S.T., M. Phil.  
Zulnio Rizky H. B., ST

## 8<sup>TH</sup> SOCIETY OF MINING PROFESSORS REGIONAL MEETING

**CHAIRMAN** : Prof. Dr. Rudy Sayoga Gautama (SOMP Member)

### **INTERNATIONAL COMMITTEE**

- Prof. Bruce Hebblewhite, University of New South Wales, Australia
- Prof. Zhongxue Li, University of Science and Technology Beijing, China
- Prof. Juergen Kretschmann, TH Georg Agricola, Bochum, Germany
- Assoc. Prof. Harmony Musiyarira, Namibia University of Science and Technology, Namibia
- Prof. Serkan Saydam, University of New South Wales, Australia

### **ORGANIZING COMMITTEE**

- Assoc. Prof. Dr.-Ing. Aryo Prawoto Wibowo, M.Eng. (Chair)
- Assist. Prof. Dr. Ginting Jalu Kusuma (Vice Chair)
- Assoc. Prof. Mohamad Nur Heriawan, S.T., M.T., Ph.D.
- Assoc. Prof. Dr.Eng. Syafrizal, S.T., M.T.
- Assoc. Prof. Dr. Lilik Eko Widodo, M.S.
- Assist. Prof. Fadhila Achmadi Rosyid, S.T., M.T.
- Assist. Prof. Dr.phil.nat., Agus Haris Widayat, S.T., M.T.
- Simon Heru Prassetyo, S.T., M.Sc., Ph.D.

## CONFERENCE CONTACT

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**(Chair of Steering Committee of MIA International Symposium and  
SOMP Regional Meeting 2018)**

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Faculty of Mining and Petroleum Engineering ITB**  
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Website : [www.miasomp2018.org](http://www.miasomp2018.org) | Email : [dep-ta@mining.itb.ac.id](mailto:dep-ta@mining.itb.ac.id)  
Phone : +62 22 250 2239 | Fax : +62 22 250 4209

## VENUE

**VENUE** : Conference Hall, CRCS Building, 2<sup>nd</sup> Floor  
Institut Teknologi Bandung (ITB)  
Jl. Ganesha No. 10 Bandung 40132 West Java – Indonesia

(The conference venue location in Bandung City, Indonesia is shown in Figure 1)

## EMERGENCY NUMBER

- Police : +6222-110
- Fire Service : +6222-113
- Ambulance : +6222-118

## TRANSPORTATION TO BANDUNG

### By airplane

- Origin Country to Singapore (SIN) to Bandung (BDO) by Airasia, Malindo, and Silkair.
- Origin Country to Malaysia (KUL) to Bandung (BDO) by Airasia and Malindo.
- Origin Country to Denpasar (DPS) to Bandung (BDO) by Airasia, Lion, NAM, Citilink, and Garuda.
- Origin Country to Surabaya (SUB) to Bandung (BDO) by Airasia, Citilink, NAM, Lion, and Garuda.
- Origin Country to Jakarta (CGK) to Denpasar (DPS) or Surabaya (SUB) to Bandung.
- Origin Country to Jakarta (CGK) to Jakarta (HLP) to Bandung by Wings Air (Transportation from CGK to HLP by taxi).

### By Train

Transportation from CGK to Gambir Station by Bus DAMRI or taxi. From Gambir Station to Bandung Station by train (Argo Parahyangan).

### By Travel Shuttle Car

Transportation from CGK to Bandung by:

- Cititrans (drop point at Jalan Dipati Ukur)
- Lintas (drop point at Jalan Ir. H. Juanda / Dago)
- Jackal Holidays (drop point at Jalan Dipati Ukur)

## CLIMATE AND DRESS CODE

Temperatures in Bandung, Indonesia in July range from 17 degrees Celsius low at night to 28 degrees high during daytime. International Symposium, Regional Meeting, and dining rooms are mildly air-conditioned. The recommended International Symposium and Regional Meeting attire is business casual or batik.

## HINTS AND TIPS

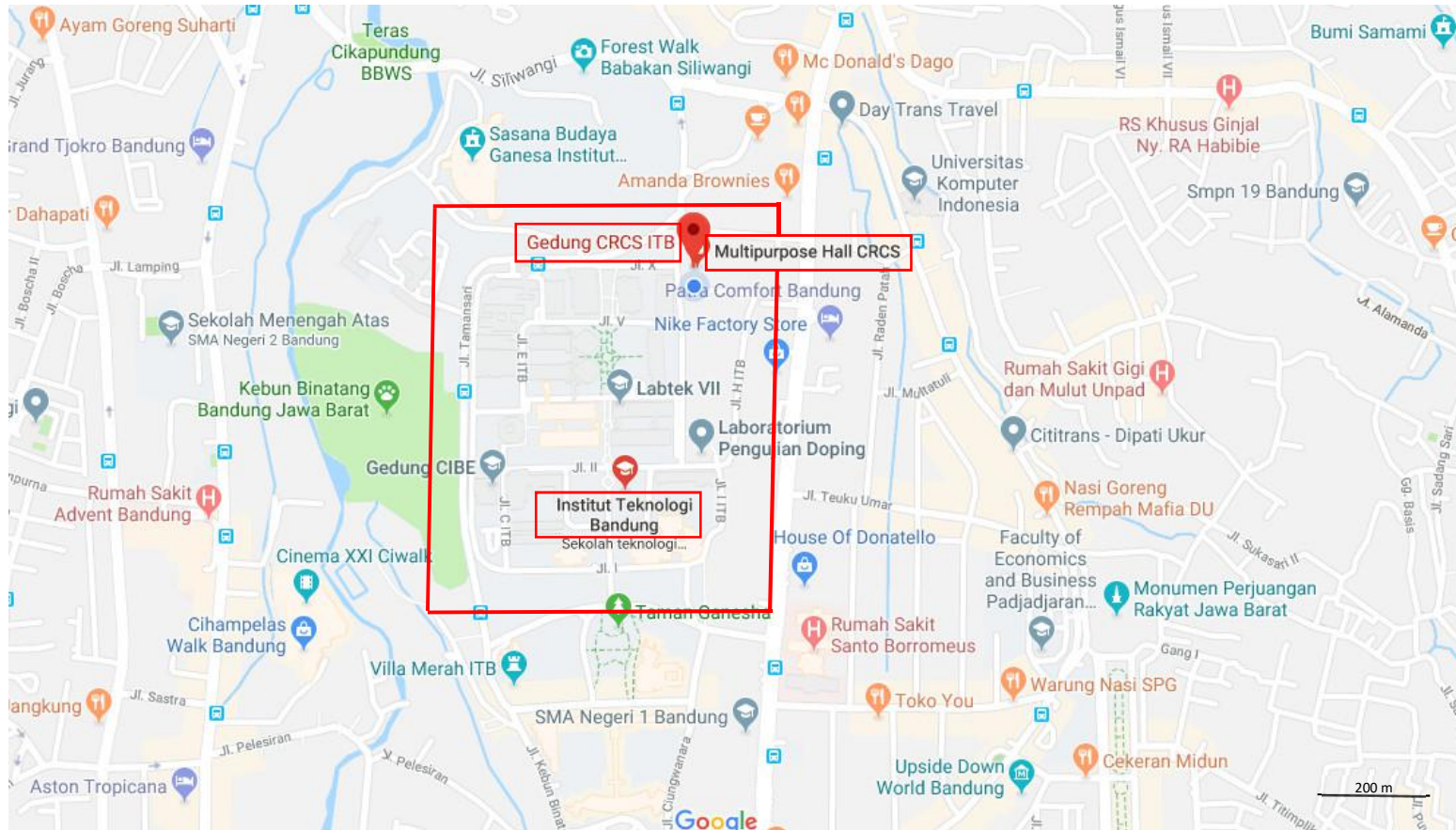
- (1) Be ready in advance or on time to chair your session, give your speech or presentation, present your paper or attend as audience.
- (2) Keep your cell phone silent while in the conference rooms.
- (3) Put on your name tag as pass always while conference.
- (4) The papers of MIA SOMP 2018 Proceedings will be published in :  
[www.miasomp2018.org](http://www.miasomp2018.org)

## POSTERS

Several full papers have accepted for presentation in poster, and all authors with an accepted abstract are also encouraged to present their subject in poster. Posters are free formatted, but a poster should be one-sided (written on one side only) with its size or dimensions of 841 mm wide by up to 1189 mm high (A0). A maximum of one poster for each author is recommended, though a second poster can be accommodated on the other side or back side of the portable and vertically positioned poster holder.

The posters can be set up as early as morning on July, 25<sup>th</sup> 2018, though poster discussions are particularly scheduled at the morning and afternoon coffee & tea break time and the authors should be attending for discussion.

## MIA INTERNATIONAL SYMPOSIUM & THE 8<sup>TH</sup> SOMP REGIONAL MEETING 2018 VENUE MAP





# MINING IN ASIA INTERNATIONAL SYMPOSIUM TECHNICAL PROGRAM

**Wednesday, July 25, 2018**

|               |  |  |  |
|---------------|--|--|--|
| 08.00 - 08.30 | Registration   |  |  |
|               | Opening  |  |  |
| 08.30 - 08.40 | Welcoming Speech - Prof. Dr. Rudy Sayoga Gautama (Chairperson of Conference and International Symposium)   |  |  |
| 08.40 - 08.50 | Opening Speech - Prof. Dr. Kadarsah Suryadi (The Rector of ITB)  |  |  |
| 08.50 - 09.20 | Keynote Speech 1 - Dr. Ir. Muhammad Wafid A.N, M.Sc (Director of Directorate of Mineral and Coal Program Supervision, Ministry of Energy and Mineral Resources of The Republic Of Indonesia) |  |  |
| 09.20 - 09.40 | Keynote Speech 2 - Ir. Doddy Rahadi, M.T. (Director of Directorate of Metal Based Material Industry, Ministry of Industry of The Republic of Indonesia)                                      |  |  |
| 09.40 - 10.00 | Coffee Break   |  |  |
|               | <b>Plenary Session</b>   |  |  |
| 10.00 - 10.20 | Speaker A - Ir. Maringan Ido Hotna Hutabarat, MSM (Chairperson of Indonesian Mining Association)   |  |  |
| 10.20 - 10.40 | Speaker B - Prof. Dr. rer. Pol. Jurgen Kretschmann / TH Georg Aricola  |  |  |
| 10.40 - 10.50 | <b>Moving to Parallel Session Room A</b>   |  |  |
| 10.50 - 11.10 | Speaker 1 - MET 1 - (Mitra, et al)<br>A review of roof instabilities associated with Longwall Top Coal Caving  | <b>Moving to Parallel Session Room B</b><br>Speaker 1 - MGE 1 (Arribas)<br>The exploration and mining potential of Japan from a circum-Pacific perspective                                 | <b>Moving to Parallel Session Room C</b><br>Speaker 1 - MEP 1 (Nguyen, et al)<br>Mining Misconception in Vietnam                               |
| 11.10 - 11.30 | Speaker 2 - MET 2 (Sasaoka, et al)<br>Study on Appropriate Support System and Control Criteria for Main Roadway under Weak Geological Conditions in Indonesia                                | Speaker 2 - MGE 2 (Koike, et al)<br>Effectiveness of Remote Sensing Techniques For Vegetation Stress, Alteration Minerals, and Fracture System To Detect Hydrothermal-Originated Resources | Speaker 2 - MEP 2 (Pany, et al)<br>Phenomenon of Dutch Disease In Indonesian Mineral Mining: Analysis Using Vector Autoregression (VAR) Method |
| 11.30 - 11.50 | Speaker 3 - MET 3 (Antam)  | Speaker 3 - MGE 3 (Heriawan)<br>Review on the Application of Geostatistics for Coal Resources Estimation and Evaluation with Case Study of Barito Basin, South Kalimantan, Indonesia       | Speaker 3 - MEP 3 (Valentina, et al)<br>A Preliminary Model of Nickel Value Chain In Indonesia Using System Dynamics Method                    |
| 11.50 - 13.00 | Lunch Break  |  |  |

|               |  |   |  |
|---------------|--|---|--|
| 11.50 - 13.00 | Lunch Break  |   |  |
|               | <b>Plenary Session</b>   |   |  |
| 13.00 - 13.20 | Speaker C - Prof. Dr. -Ing. Carsten Drebenstedt / TU Bergakademie Freiberg   |   |  |
| 13.20 - 13.40 | Speaker D - Prof. Serkan Saydam / University of New South Wales  |   |  |
| 13.40 - 13.50 | <b>Moving to Parallel Session Room A</b>   | <b>Moving to Parallel Session Room B</b>  | <b>Moving to Parallel Session Room C</b>   |
| 13.50 - 14.10 | Speaker 4 - MET 4 (Pootrakul)<br>BANPU : A Sharing of Successful Underground Mining Techniques   | Speaker 4 - EIM 1 (Uematsu, et al)<br>Development of an equipment for evaluating spontaneous combustion of low rank coal safely                                     | Speaker 4 - MPT 4 (Putra)<br>Implementing Zero Mercury Gold Extraction in Artisanal Gold Mining at Geumpang Mountain, Pidie - Aceh, Indonesia  |
| 14.10 - 14.30 | Speaker 5 - MET 5 (Peterson)<br>BANPU : A Sharing of Successful Underground Mining Techniques  | Speaker 5 - EIM 2 (Noerfaida, et al)<br>Overburden Geochemical Characterization Using Blasthole Cuttings In Open Pit Coal Mine                                      | Speaker 5 - MPT 5 (Sanwani, et al)<br>Characterization and Gravity Concentration of Primary and Alluvial Indicated Tin Ores Using Jig and Shaking Table  |
| 14.30 - 14.50 | Speaker 6 - MET 6 (Liu)<br>BANPU : A Sharing of Successful Underground Mining Techniques   | Speaker 6 - EIM 3 (Pranoto, et al)<br>Smart Strategy to pollution prevention, not just comply it also give an added value   |  |
| 14.50 - 15.00 | <b>Moving to Plenary Room</b>  |   |  |
| 15.00 - 15.15 | Coffee Break   |   |  |
|               | <b>Plenary Session</b>   |   |  |
| 15.15 - 15.35 | Speaker E - Assoc. Prof. Domingo Javier Carjaval / University of Huelva  |   |  |
| 15.35 - 15.45 | <b>Moving to Parallel Session Room A</b>   | <b>Moving to Parallel Session Room B</b>  | <b>Moving to Parallel Session Room C</b>   |
| 15.45 - 16.05 | Speaker 7 - MPT 1 (Phengsaart, et al)<br>Improvement of purity of heavy product using a restraining wall in a continuous jig                             | Speaker 7 - MGE 4 (Syafrizal)<br>Mineralization Style of Pongkor Deposit, West Java, Indonesia  | Speaker 7 - MET 7 (Ri, et al)<br>Optical full-field displacement measurement utilizing Moiré technique   |
| 16.05 - 16.25 | Speaker 8 - MPT 2 (Azuma, et al)<br>The roles of particle geometrical properties on the settling velocity of plastic particles in jig separation         | Speaker 8 - MGE 5 (Fikri, et al)<br>Conditional Bias Analysis for Model Block Size in Coal Deposit  | Speaker 8 - MET 8 (Aryanda, et al)<br>Prediction of the Uniaxial Compressive Strength and Young's Modulus of Limestone Using Adaptive Neuro Fuzzy Inference Systems (ANFIS) and Multiple Regression Analysis (MRA) |
| 16.25 - 16.45 | Speaker 9 - MPT 3 (Khaing, et al)<br>Screening of Iodide-Oxidising Bacteria generating potential lixiviant solution for the dissolution of gold from ore | Speaker 9 - MGE 6 (Syarifin, et al)<br>Geostatistical analysis by kriging method in the calculation of nickel laterite reserves, Case Study : Site Matarape Block 1 | Speaker 9 - MET 9 (Elizabet, et al)<br>Tunnel Stability Analysis On The Notog Train Road Based On Displacement Monitoring Data   |
| 16.45 - 18.00 | Laboratory Tour  |   |  |

## CONFERENCE DINNER

**Venue** : Aula Barat Kampus ITB  
**Time** : 18.00 – 21.00 WIB

# THE 8<sup>TH</sup> SOCIETY OF MINING PROFESSORS REGIONAL MEETING TECHNICAL PROGRAM

Thursday, July 26, 2018

|               |  |
|---------------|--|
| 08.00 - 08.30 | Registration   |
| 08.30 - 08.45 | Opening Preparation  |
| 08.45 - 09.00 | Welcoming Speech - Prof. Dr. Rudy Sayoga Gautama (Chairperson for 8th SOMP Regional Meeting) |
| 09.00 - 09.15 | Opening Speech - Prof. Dr. rer. Pol. Jurgen Kretschmann (President of SOMP)                  |
| 09.15 - 09.35 | Coffee Break   |
|               | Session 1 : Capacity Building  |
| 09.35 - 09.50 | Speaker 1 - Prof. Dr. rer. Pol. Jurgen Kretschmann   |
| 09.50 - 10.05 | Speaker 2 - Prof. Dr. -Ing. Carsten Drebenstedt  |
| 10.05 - 10.20 | Speaker 3 - Dr. Eng. Ganda Marihot Simangunsong, S.T., M.T.                                  |
| 10.20 - 10.35 | Speaker 4 - Dr. Harmony Musiyarira   |
| 10.35 - 12.00 | Discussion and Summary Season 1  |
| 12.00 - 13.15 | Lunch  |
|               | Session 2 : International Collaboration  |
| 13.15 - 13.30 | Speaker 1 - A/ Prof. Dr. Nga Nguyen  |
| 13.30 - 13.45 | Speaker 2 - Prof. Serkan Saydam  |
| 13.45 - 14.00 | Speaker 3 - Prof. Hideki Shimada, Ph.D.  |
| 14.00 - 14.15 | Speaker 4 - Dr. Eng. Syafrizal, S.T., M.T  |
| 14.15 - 15.30 | Discussion and Summary Session 2   |
| 15.30 - 15.50 | Coffee Break   |
|               | Session 3 : Innovation in Teaching and Learning  |
| 15.50 - 16.05 | Speaker 1 - Assoc. Prof. Rudrajit Mitra  |
| 16.05 - 16.20 | Speaker 2 - Prof. Dr. Rudy Sayoga Gautama  |

**Friday, July 27, 2018**

|               |  |
|---------------|--|
|               | Session 3 : Innovation in Teaching and Learning (Cont) |
| 08.30 - 08.45 | Speaker 3 - Prof. Paul Hagan                           |
| 08.45 - 09.00 | Speaker 4 - Assoc. Prof. Domingo Javier Carjaval       |
| 09.00 - 10.30 | Discussion and Summary Session 3                       |
| 10.30 - 10.50 | Closing & Coffee Break                                 |
| 10.50 - 12.30 | Free Time & Preparation for Field Trip                 |
| 12.30 - 13.30 | Lunch  |

**Departing for Field Trip to Pongkor Underground Gold Mine**

**Time** : 13.30 WIB  
**Meeting Point** : CRCS ITB

**Saturday, July 28, 2018**

**Pongkor Underground Gold Mine**

25 - 28  
JULY 2018

Mining In Asia : International Symposium and  
The 8<sup>th</sup> Society of Mining Professors Regional Meeting



# Institut Teknologi Bandung, Indonesia

## 25 -28 JULY 2018

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