

### 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM – 2024)

## Organized by IFERP Academy – Indonesia Society in association with

Lakindende University, Indonesia, and Poornima College of Engineering,
India

#### **Post Conference Report**

7<sup>th</sup> ICASETM – 2024, Contributed to Following SDGs



#### **Foreword**

Dear Participants,

It gives me great pleasure to share with you the outcomes and results of the 7<sup>th</sup> ICASETM – 2024, with the theme of "Strategies for Sustainable Growth in Science, Education, Social Science, Technology, and Management "which was held at Jakarta, Indonesia on 21<sup>st</sup> and 22<sup>nd</sup> October, 2024. More than 290 people attended the event in person, and more than 500 people watched the live stream online. We were able to actively engage and reach out to a wider spectrum of research communities.



MD & Founder, IFERP Technoarete Group

The 7th International Conference on Applied Sciences, Engineering, Technology and Management (7th ICASETM - 2024), provided a vibrant platform that brings together scholars, educators, and researchers from a variety of disciplines. It is a hub for exchanging innovative research about applied science, engineering, technology, management, education, internet of things & industry 4.0, educational technology and innovation, teaching and learning methodologies, curriculum development and educational policy that foster critical and creative thinking, mainly in the educational research, and fostering multidisciplinary exchanges among experts in applied sciences, engineering, technology and management.

We are grateful for the support of many universities and research institutes, whose contributions were vital to the success of this conference. We extend our sincere gratitude and highest respect to the professors who played an important role in the review process, providing valuable feedback and suggestions to authors to improve their work. We also extend our appreciation to the external reviewers for providing additional support in the review process and to the authors for contributing their research results to the 7th International Conference on Applied Sciences, Engineering, Technology and Management (7th ICASETM - 2024).

Mr. Siddth Kumar Chhajer

MD & Founder, IFERP

Technoarete Group

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#### 1. Conference Summary



Conference Name : 7th International Conference on Applied Sciences, Engineering,

**Technology and Management (7th ICASETM - 2024)** 

Date : 21st & 22nd October, 2024

Venue : Jakarta, Indonesia

Conference Theme : Strategies for Sustainable Growth in Science, Education, Social

Science, Technology, and Management

Organized By : Lakidende University, Indonesia

Poornima College of Engineering, India and

IFERP Academy - Indonesia Society

No. of Organizing Committee Members : 38

No. of Editors/Reviewers : 25

No. of Speakers : 13

No. of Abstracts Received : 290

No. of Participants Registered : 188

No. of Attendees : 260

#### 1.1 Conference Overview

7<sup>th</sup> International Conference **Applied** Sciences, Engineering, on Technology and Management (7th ICASETM - 2024) was the place where ideas collided and innovations take the spotlight for the contribution towards achieving Sustainable Development 7<sup>th</sup>Goals! International Conference **Applied** Engineering, Sciences. Technology and Management (7th ICASETM - 2024) had long been the meeting place for professionals, educators, researchers, policymakers, and industry professionals looking to network, share ideas, and grow in their respective fields. At this applied sciences, engineering, technology and management conference in Jakarta, Indonesia, professionals, academics, researchers, and educators were came together to share their groundbreaking research, and different views, and explore unique ideas from various fields.

Through collaboration, the conference explored intersections between various disciplines and created a dynamic environment to enhance educational discussions and explore diverse studies. This International Conference in Jakarta, Indonesia was a part of shaping the future of global education. They continued to inspire, transform, and shape education together. Their participation was more than just an RSVP; it is an important role in our community dedicated to academic success and positive change.

#### 1.2 Conference Theme

The theme of the 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM - 2024) " **Strategies for Sustainable Growth in Science, Education, Social Science, Technology, and Management** " was to provide a lively space where different academic areas come together. 7<sup>th</sup> ICASETM - 2024 stands as a melting pot of ideas, where the boundaries between advances in applied sciences, engineering, technology and management disciplines blur, giving rise to innovative solutions that address global challenges. The conference embraces the multidisciplinary nature of educational excellence driving through digital transformation, recognizing that true breakthroughs often occur at the intersections of different fields.

This theme encapsulates the conference's focus on fostering innovation and collaboration across diverse disciplines within applied sciences, engineering, technology and management. It encourages participants to explore and present cutting-edge solutions that contribute to the sustainable development of industries, addressing challenges and advancing knowledge for a better

future. The multidisciplinary perspective highlights the interconnectedness of various fields in creating holistic and impactful solutions.

#### 1.3 Objectives & Scope of the Conference

The 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology, and Management (7th ICASETM - 2024) aims to bring together academics, researchers, industry professionals, and students from diverse fields to explore cutting-edge advancements and trends across applied sciences, engineering, technology, and management.

#### **Key objectives include:**

**Knowledge Exchange:** Facilitate interdisciplinary discussions to share novel insights, innovative research, and best practices across applied sciences, engineering, technology, and management.

**Collaboration & Networking:** Create a platform for fostering collaborations among academia, industry, and government bodies to address contemporary issues and enhance applied research impact.

**Innovation & Problem Solving:** Encourage participants to present solutions and case studies that address real-world problems using emerging technologies and management strategies.

**Encourage Young Researchers:** Provide opportunities for early-career researchers and students to present their work, gain feedback, and network with experienced professionals.

7<sup>th</sup> ICASETM – 2024 transcends traditional boundaries, providing a platform for comprehensive exploration across a multitude of disciplines. The conference encompasses a wide scope that includes, but is not limited to:

- **Applied Sciences:** Advances in physical, biological, and environmental sciences, with an emphasis on their practical applications and sustainability.
- **Engineering:** Recent developments in mechanical, civil, electrical, chemical, and software engineering; focusing on innovation in design, materials, and systems.
- **Technology:** Emerging technologies such as artificial intelligence, IoT, blockchain, and data science, with discussions on integration, ethics, and security.
- **Management:** Strategies in business and management, with themes like entrepreneurship, supply chain management, leadership, and organizational development.

#### **Key Areas of Focus**

- Sustainable technology solutions for a changing planet
- Innovative engineering designs and materials for industrial applications
- Data-driven management strategies and decision-making
- Integrating AI and automation for efficiency in various sectors

The 7<sup>th</sup> ICASETM - 2024 aims to promote interdisciplinary research and collaboration to address contemporary challenges and inspire actionable solutions that contribute to the advancement of science, technology, and management globally.

### 2. Guest of Honor, Keynote Speakers, Session Speakers, Event Speakers & Session Chairs

#### **Special Guest of honor**



Mr. A. Siddth Kumar Chhajer

Managing Director & Founder Institute for Engineering Research and Publication (IFERP) Technoarete Groups

### **Keynote Speakers**



Dr. Hoe Han Goh
Deputy Director of INBIOSIS
Universiti Kebangsaan Malaysia
Malaysia



Assoc. Prof. Dr. Mohammad
Tazli Azizan
Universiti Brunei Darussalam
Brunei



Mr. Sudeep Palekar
Director of Education
Saint Peter's School
Jakarta. Indonesia

#### **Keynote Speakers**



Mr. Indra Charismiadji
Executive Director
Center for Education Regulations and
Development Analysis (CERDAS), Indonesia.



Prof. Dr. Hesham EI-Enshasy Director, Institute of Bioproduct Development Faculty of Chemical and Energy Engineering Universiti Teknologi Malaysia, Malaysia



Dr. Tan Lay Hong
Senior Lecturer, Department of Technology
Management, Faculty of Technology Management
& Technopreneurship (FPTT), Malaysia



Assoc. Prof. Dr. Jacob FN Dethan Vice Rector for Student Affairs and Cooperation Universitas Buddhi Dharma Indonesia



**Dr. Mahesh Bundele**Director
Poornima College of Engineering
India



Dr. Abdul Wahab Samad, S.E., M.M Lecturer, Faculty of Economy Institut Bisnis dan Informatika Kosgoro 1957, Indonesia

### **Session Speakers**



Dr. Aneesh Chand Head of Robotics PETRONAS Malaysia



Prof. Dr. Ooi Kok Loang
Deputy Dean
City Graduate School
Malaysia



**Dr. Bosede Edwards**Senior Lecturer
Universiti Sains Malaysia
Malaysia



Assoc. Prof. Dr.
Crystale Siew Ying Lim
Dean
Faculty of Applied Sciences
UCSI University, Malaysia



Assoc. Prof. Dr. Jameel Ahmed Qureshi Poornima University India



Dr. Zeittey Karmilla Kaman
Department of Business Management
College of Graduate Studies (COGS)
Universiti Tenaga Nasional, Malaysia.



Mr. Surendar Rama Sitaraman
AI Frameworks Engineer,
Intel Corporation
California, USA.



Dr. Erisa Kurniati Lecturer Universitas Jambi Indonesia.

#### **Session Chairs**



Dr. Devendra Somwanshi
Registrar
Poornima College of Engineering
Jaipur, India



Dr. Saurabh Shandilya
Professor
Department of Advance Computing
Poomima College of Engineering, Jaipur, India



Dr. Pankaj Dhemla
Vice Principal
Poornima College of Engineering,
Jaipur, India



DR. ZAHERA MEGA UTAMA, SE.MM.

Dean of the Faculty of Economics

Prof. Dr. Moestopo Beragama Universit
Indonesia



Dr. H. Haswan Yunaz, M.M., M.Si Chancellor Institut Bisnis dan Informatika Kosgoro 1957 Indonesia

#### 3. Welcoming & Introduction

Welcome to the 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology, and Management (7th ICASETM - 2024), where we gather the brightest minds and the most innovative ideas to inspire, educate, and connect. Before we dive into today's agenda, let's take a moment to appreciate the vibrant atmosphere here at Jakarta, Indonesia. This location has been thoughtfully chosen to provide an inspiring environment for our discussions and networking. The theme of 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology, and Management (7th ICASETM - 2024) is "Strategies for Sustainable Growth in Science, Education, Social Science, Technology, and Management ". Our objective is to explore new technologies in applied sciences, engineering, technology and management, discuss emerging trends, foster collaboration, etc. Over the next two days, we have a packed schedule with nine sessions, one workshop, and thirteen keynote presentations from industry leaders and experts. This conference would not be possible without the hard work and dedication of many individuals. We would like to extend a special thank you to our conference managers, and organizing committee members.

#### 4. Welcome Speeches

4.1 Welcome Speech by Special Guest - Mr. A. Siddth Kumar Chhajer

#### **Special Guest of honor**



Mr. A. Siddth Kumar Chhajer

Managing Director & Founder
Institute for Engineering Research
and Publication (IFERP)
Technoarete Groups

#### 4.2 Welcome Speech by Special Guest - Assoc Prof. Dr. Jacob F N Dethan



Assoc. Prof. Dr. Jacob F N Dethan

Vice Rector for Student Affairs and Cooperation Universitas Buddhi Dharma Indonesia

#### 4.3 Welcome Speech by Special Guest - Mr. Indra Charismiadji



Mr. Indra Charismiadji
Executive Director
Center for Education Regulations and
Development Analysis (CERDAS), Indonesia.

#### 4.4 Welcome Speech by Special Guest - Mr. Sudeep Palekar



Mr. Sudeep Palekar
Director of Education
Saint Peter's School
Jakarta, Indonesia

#### 4.5 Welcome Speech by Special Guest - Dr. Abdul Wahab Samad, S.E., M.M



Dr. Abdul Wahab Samad, S.E., M.M Lecturer, Faculty of Economy Institut Bisnis dan Informatika Kosgoro 1957, Indonesia

#### 4.6 Welcome Speech by Special Guest - Dr. Zahera Mega Utam



#### DR. ZAHERA MEGA UTAMA, SE.MM.

Dean of the Faculty of Economics Prof. Dr. Moestopo Beragama Universit Indonesia

#### 4.7 Welcome Speech by Special Guest - Dr. H. Haswan Yunaz, M.M., M.Si



Dr. H. Haswan Yunaz, M.M., M.Si Chancellor Institut Bisnis dan Informatika Kosgoro 1957 Indonesia

4.8 Welcome Speech by Special Guest - Mr. Gari Mauramdha

#### 5. Keynote Speeches

#### 5.1 Speech by Keynote speaker - Assoc. Prof. Dr. Jacob F N Dethan



Assoc. Prof. Dr. Jacob F N Dethan

Vice Rector for Student Affairs and Cooperation Universitas Buddhi Dharma Indonesia

#### 5.2 Speech by Keynote speaker – Mr. Indra Charismiadji



Mr. Indra Charismiadji

Executive Director
Center for Education Regulations and
Development Analysis (CERDAS), Indonesia.

#### 5.3 Speech by Keynote speaker – Mr. Sudeep Palekar



Mr. Sudeep Palekar

Director of Education Saint Peter's School Jakarta, Indonesia

#### 5.4 Speech by Keynote speaker – Dr. Tan Lay Hong



Dr. Tan Lay Hong
Senior Lecturer, Department of Technology
Management, Faculty of Technology Management
& Technopreneurship (FPTT), Malaysia

#### 5.5 Speech by Keynote speaker – Dr. Hoe Han Goh



**Dr. Hoe Han Goh**Deputy Director of INBIOSIS
Universiti Kebangsaan Malaysia
Malaysia

#### 5.6 Speech by Keynote speaker – Dr. Hesham EI-Enshasy



Prof. Dr. Hesham EI-Enshasy Director, Institute of Bioproduct Development Faculty of Chemical and Energy Engineering Universiti Teknologi Malaysia, Malaysia

#### 5.7 Speech by Keynote speaker – Dr.Mohammad Tazli Azizan



Assoc. Prof. Dr. Mohammad
Tazli Azizan
Universiti Brunei Darussalam
Brunei

#### 5.8 Speech by Keynote speaker – Dr. Mahesh Bundele



Dr. Mahesh Bundele
Director
Poornima College of Engineering
India

5.9 Speech by Keynote speaker - Dr. Abdul Wahab Samad, S.E., M.M



Dr. Abdul Wahab Samad, S.E., M.M Lecturer, Faculty of Economy Institut Bisnis dan Informatika Kosgoro 1957, Indonesia

## 6. Workshop on Strategies for Sustainable Growth in Global and Indonesian from HR Perspective

Title: Strategies for Sustainable Growth in Global and Indonesian from HR Perspective



Dr. Abdul Wahab Samad, S.E., M.M

Lecturer, Faculty of Economy Institut Bisnis dan Informatika Kosgoro 1957, Indonesia.

#### 7. Group Photo



#### 8. Inaugural Programme

The inaugural program of the 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM - 2024), Jakarta, Indonesia on 21<sup>st</sup> & 22<sup>nd</sup> October, 2024 conference sets the tone for the entire event, providing an opportunity to introduce the theme, objectives, and key participants. The inaugural program included inaugural addresses, proceedings release, Momento ceremony & Institutional Membership Benefits etc. The inaugural program was a crucial part of the conference, serving to welcome and engage participants, set the context for discussions, and recognize the contributions of key individuals.

#### 9. Conference Proceedings Book Release

The 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM – 2024) Conference proceedings was a comprehensive collection of the papers presented at the 7<sup>th</sup> ICASETM – 2024. The Conference Proceedings serve as a valuable record of the research and discussions that occurred during the 7<sup>th</sup> ICASETM – 2024 conference, providing insights into current trends, innovations, and the future direction of multidisciplinary research studies, applied sciences, engineering, technology and management.

On behalf of the organizing committee of the 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM – 2024), the conference proceedings was released.









# **TERNATIONAL** CONFERENCE

Applied Sciences, Engineering, Technology and Management (ICASETM)



U 21st & 22nd Oct 2024



ASTON Priority Simatupang Hotel & Conference Center, Jakarta, Indonesia

#### Organized by

Lakidende University, Indonesia Poornima College of Engineering, India IFERP Academy (Indonesia Society)



#### #IFERPsupportsSDGs





































https://www.iferp.in/past-conferences.php

#### **10.Momento Ceremony**

The conference speakers, session speakers, & session chairs were awarded with Momentos.





#### 11. Technical Presentation Sessions

#### 11.1 Technical Presentation Session 1 A

11.1.1 Speech by Session Speaker Mr. Surendar Rama Sitaraman



Mr. Surendar Rama Sitaraman
AI Frameworks Engineer,
Intel Corporation
California, USA.

11.1.2 – 11.1.19 Total 19 Scientific Presentations were presented in the Technical Presentation Session 1 A

#### 12. Technical Presentation Sessions

#### 12.1 Technical Presentation Session 1 A

12.1.1 Speech by Session Speaker Assoc. Prof. Dr. Crystale Siew Ying Lim



Assoc. Prof. Dr.
Crystale Siew Ying Lim
Dean
Faculty of Applied Sciences
UCSI University, Malaysia

12.1.2 – 12.1.8 Total 8 Scientific Presentations were presented in the Technical Presentation Session 1 A

#### 12.2 Technical Presentation Session 1 B

12.2.1 Speech by Session Speaker Prof. Dr. Ooi Kok Loang



Prof. Dr. Ooi Kok Loang
Deputy Dean
City Graduate School
Malaysia

12.2.2 – 12.2.7 Total 7 Scientific Presentations were presented in the Technical Presentation Session 1 B

#### 12.3 Technical Presentation Session 2 A

12.3.1 Speech by Session Speaker Assoc. Prof. Dr. Jameel Ahmed Qureshi



Assoc. Prof. Dr. Jameel Ahmed
Qureshi
Poornima University
India

12.3.2 – 12.3.7 Total 7 Scientific Presentations were presented in the Technical Presentation Session 2 A

#### 12.4 Technical Presentation Session 2 B

#### 12.4.1 Speech by Session Speaker Dr. Aneesh Chand



Dr. Aneesh Chand Head of Robotics PETRONAS Malaysia

12.4.2 – 12.4.7 Total 7 Scientific Presentations were presented in the Technical Presentation Session 2 B

#### 12.5 Technical Presentation Session 3 A

12.5.1 Speech by Session Speaker Dr. Zeittey Karmilla Kama



Dr. Zeittey Karmilla Kaman
Department of Business Management
College of Graduate Studies (COGS)
Universiti Tenaga Nasional, Malaysia.

12.5.2 – 12.5.7 Total 7 Scientific Presentations were presented in the Technical Presentation Session 3 A

#### 12.6 Technical Presentation Session 3 B

12.6.1 Speech by Session Speaker Dr. Bosede Edwards



Dr. Bosede Edwards
Senior Lecturer
Universiti Sains Malaysia
Malaysia

12.6.2 – 12.6.7 Total 7 Scientific Presentations were presented in the Technical Presentation Session 3 B

#### 12.7 Technical Presentation Session 4 A

12.7.1 Speech by Session Speaker Dr. Erisa Kurniati



Dr. Erisa Kurniati Lecturer Universitas Jambi Indonesia.

12.7.2 – 12.7.6 Total 6 Scientific Presentations were presented in the Technical Presentation Session 4 A

#### 12.8 Technical Presentation Session 4 B

12.8.1 – 12.8.3 Total 3 Scientific Presentations were presented in the Technical Presentation Session 4 B

#### 13. Award Ceremony - Best Paper Presentation Awards

Name	Paper Title
Rolando B Magat Jr	Paper Title:  Teachers' Familiarity, Perceptions, and Training Needs on the Use of ChatGPT in Mathematics Instruction
Joanna Marie A de Borja	Paper Title :
	Mapping Technical-Vocational Pathways for Cabuyao: Rapid Assessment of Current and Future Trends and Roles
Shainima Islam	Paper Title :
	Career Development of Female Leaders: A Comprehensive Bibliometric Analysis of Female Leadership Literature
José Ramón Panduro-Ríos	Paper Title:
	Per diem management and internal control in the modernization of the State in a public organization, 2024
Roel Jr D Apas	Paper Title :
	Challenges Faced by Indigenous Women in Gender Equality: An Analysis of Lived Experiences

#### 14. Valedictory Function

#### 14.1 Conference - Conclusion Summary

The 7<sup>th</sup> International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM – 2024), held on 21<sup>st</sup> & 22<sup>nd</sup> October, 2024, at Jakarta, Indonesia organized by Lakidende University, Indonesia, Poornima College of Engineering, India and IFERP Academy – Indonesia Society brought together a diverse group of experts, practitioners, and enthusiasts from various fields. The central theme of the conference was "Strategies for Sustainable Growth in Science, Education, Social Science, Technology, and Management "and it successfully fostered a collaborative environment for sharing knowledge, insights, and advancements to achieve SDGs.

#### **Key Highlights:**

The conference commenced with an inspiring Special Guest of Speech by Mr. Siddth Kumar Chhajer, MD & Founder, Technoarete Group, who emphasized the importance of Research in

Action: Tackling Global Challenges through the SDGs, multidisciplinary conferences, collaboration and innovation, QS University World Rankings and Times Higher Education (THE) University World Rankings. Keynote Speakers highlighted the recent breakthroughs and the potential for future developments in engineering, science & technology and multidisciplinary areas.

#### **Research Presentations:**

Over 290 research papers were presented, covering a wide range of topics. These presentations showcased cutting-edge research and fostered lively discussions.

#### **Networking Opportunities:**

The conference facilitated numerous networking events, allowing attendees to connect with peers, potential collaborators, and industry leaders. The virtual and in-person networking sessions were particularly well-received, enhancing professional relationships and sparking new partnerships.

#### **Achievements and Outcomes:**

- Several new collaborative initiatives were announced, aiming to address global challenges. These initiatives will leverage the collective expertise and resources of participating organizations.
- Publication of Proceedings including the conference proceedings, including research papers and keynote addresses, will be published. Future Conferences: Plans for the next conference were discussed, with suggestions for topics and formats that could further enhance engagement and impact.

#### **Closing Remarks:**

In the closing session, IFERP Academy expressed its gratitude to all the participants, academic partners, sponsors, and organizers. IFERP Academy highlighted the conference's success in achieving its objectives and underscored the importance of continued collaboration and innovation. Attendees left with a sense of accomplishment and a renewed commitment to advancing in their fields.

The conference concluded on a high note, with participants energized and motivated to apply the insights gained to their respective fields. The event not only celebrated current achievements but also set a forward-looking agenda for future research and development.

#### 15. Vote of Thanks

Dear Researchers, Academicians & Students,

As we draw to the close of this remarkable 7th International Conference on Applied Sciences, Engineering, Technology and Management (7<sup>th</sup> ICASETM – 2024), it is our honor and privilege to extend a vote of thanks on behalf of the organizing committee. Today has been a day filled with insights, inspiration, and invaluable networking opportunities, and none of this would have been possible without the collective efforts of many individuals and organizations.

Firstly, we would like to express our deepest gratitude to our esteemed speakers. Your expertise, thoughtful presentations, and engaging discussions have been the highlight of this conference. You have not only enlightened us with new knowledge but have also inspired us to think critically and creatively about the challenges and opportunities in our field.

A special thanks to our dedicated organizing committee and volunteers. Your hard work behind the scenes, meticulous planning, and tireless efforts have ensured that everything ran smoothly. Your passion and dedication are truly commendable, and this event could not have happened without you.

We are also grateful to our attendees. Your active participation, thoughtful questions, and enthusiastic engagement have added great value to this conference. It is your eagerness to learn and share that makes the events like this so rewarding and worthwhile.

We would like to acknowledge the venue staff for their excellent service and hospitality, providing us with a comfortable and conducive environment for our discussions and networking.

Finally, I want to thank everyone who has contributed, in big ways and small, to the success of this conference. Whether you were a speaker, sponsor, attendee, or volunteer, your involvement has been crucial.

As we conclude, let us take with us the knowledge we have gained, the connections we have made, and the inspiration to drive forward in our respective fields. We look forward to seeing you at future conferences and continuing these valuable conversations.

#### 16. Conference Glimpses

















#### 17. General Comments & Feedbacks

#### **Overall Comments of the Participants:**

- Organizing and Coordination of the conference was excellent and professional.
- Speakers were no doubt enriching.
- Overall, an excellent International Conference.
- Workshop was very interactive
- The introduction of the conference program was so effective that it distracts you from the research topic
- Keynote speakers talks were worth listening.
- Issues were resolved carefully.