

Report on 22nd Asia-Pacific Network Operations and Management Symposium (APNOMS 2021)

Naoki Tateishi* and Kazuhiko Kinoshita**

* Secretary of APNOMS 2021 and NTT west.

** Vice Chair of APNOMS 2021 and Tokushima Univ.



1. Overview

The 22nd Asia-Pacific Network Operations and Management Symposium (APNOMS 2021) was held from September 8th to 10th as a completely online event, under the influence of COVID-19. It is organized by Technical Committee on Information and Communication Management, the Institute of Electronics, Information and Communication Engineers (IEICE ICM) and the committee on Korean Network Operations and Management, the Korean Information and Communications Society (KICS KNOM), and is technically co-sponsored by the IEEE Communications Society.

APNOMS 2021, with its theme being “Networking Data and Intelligent Management in the Post-COVID 19 Era,” consists of 3 keynote speeches, a distinguished expert panel, a special session, 4 tutorial sessions, 10 technical sessions, 3 poster sessions, and 2 innovation sessions. Over 110 people participated in the conference.

2. Highlights

Three executives delivered keynote speeches from each perspective. Ms Hey-Chyi Young from Telecommunication Lab, Chunghwa Telecom Co. Ltd gave a speech on “The Opportunities and Challenges in the 5G Era,” Dr. Sungwon Lee from Kyung Hee University introduced “The Opensource Movement in the 5G MEC,” and Mr. Masanori Miyazawa from KDDI gave a speech on “The Challenge for Automated Operation Toward Future 5G and Cloud-Native Environment.”

In the distinguished expert panel session, Dr. Magnus Ewerbring from Ericsson, Mr. Shinji Yamashita from Fujitsu, Dr. De-Nian Yang from Sinica, Prof. Ping-Yu Hsu from National Central University and Dr. Sangjae Seo from KISTI discussed “Technologies for Post-Covid19 era in the data and network management aspect: Sharing experiences and challenges in various academia, industries and governments” with chair and audiences.

The special session covered the topics of “Cloud Native in Telecom Network Infrastructure” and “Artificial Intelligence/Machine Learning for Network Management.” A total of 95 papers, including 18 papers from Japan, were submitted to APNOMS 2021, among which 38 papers (9 from Japan) were accepted to be among which 40 papers (10 from Japan) were accepted

to be presented in the technical sessions. Besides, 45 papers (8 from Japan) were accepted to be presented in poster sessions. All presentations were pre-recorded and followed by live Q&A sessions. These papers are to be included in IEICE Proceedings Series, KICS Proceedings Series, and IEEE Xplore.

The technical program committee and organizing committee selected the top four papers and the top four students with the highest overall scores from technical sessions as “Best Paper Award” and “Best Student Paper Award,” respectively. One of the awardees of “Best Paper Award” is “Robotic Assistance Operation for Effective On-Site Network Maintenance Works” presented by Mr. Takayuki Warabino from KDDI Research, Inc. And one of the awardees of “Best Student Paper Award” is “Evaluation of Resource Sharing Framework for Heterogeneous Network Services” presented by Mr. Haruo Oishi from Waseda University.



Fig. 1 Poster session held by Gather.Town

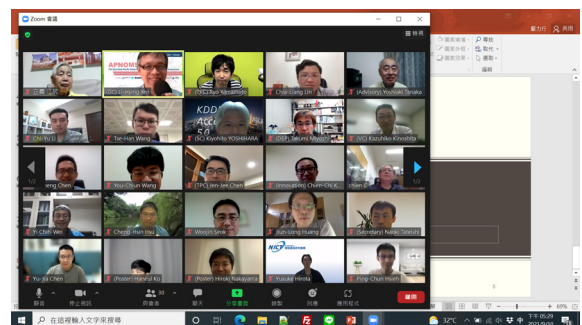


Fig. 2 Group photo of APNOMS2021 organizing committee members and staff (online)

3. Summary

APNOMS 2021 was closed with great success against the pandemic of COVID-19. On behalf of all organizing committee members, we would like to express our appreciation to all parties involved in this conference.

The next APNOMS will be held in Takamatsu, Japan in 2022.