



CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS AWARDED TO

Prof. Haruo Kobayashi

In honor of your excellent work as Program Chair and your significant contribution to the success of the 12th International Conference on Communications, Circuits, and Systems (ICCCAS 2023), Singapore during May 5-7, 2023.



CERTIFICATE OF APPRECIATION

This Certificate is Proudly Presented To

Prof. Haruo Kobayashi

Gunma University, Japan

In honor of your excellent work as Technical Committee Member and your significant contribution to the success of the 12th International Conference on Communications, Circuits, and Systems (ICCCAS 2023), Singapore during May 5-7, 2023.



CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY AWARDED TO

Prof. Haruo Kobayashi

Gunma University, Japan

In honor of your excellent work as Track Chair and your significant contribution to the success of the 12th International Conference on Communications, Circuits, and Systems (ICCCAS 2023), Singapore during May 5-7, 2023.





Certificate of Completion

This Certificate is Proudly Awarded to

Prof. Haruo Kobayashi

Gunma University, Japan

**In honor of your excellent work as Invited Speaker and your significant contribution to the success of the
12th International Conference on Communications, Circuits, and Systems (ICCCAS 2023), Singapore
during May 5-7, 2023.**

