

[October. 11, 2024]

Result of the additional candidate(s) for officers and executive committee members of IEEE Tokyo Section Office for Year 2025/2026

There was no nomination for the additional candidate(s) which we announced on Tokyo Bulletin No.157 issued on July 31, 2024. We plan to resolve the election of officers and executive committee members which announced on the Tokyo Bulletin No.157 on the next Annual General Assembly. Therefore, they will serve as the post of officers and executive committee members for two years from January 1st, 2025.

Lecture Meeting hosted by Tokyo Section LMAG (co-hosted by TPC)

The lecture was organized by LMAG-Tokyo and co-sponsored by Tokyo Section TPC, with support from the Institute of Electronics, Information and Communication Engineers. It was held on August 21, 2024 (Wednesday) at 15:00 via Zoom Webinar. The speaker was Dr. Takemasa Miyoshi (Team Leader and Chief Scientist, RIKEN), and the lecture title was "Big Data Assimilation Revolutionizing Numerical Weather Prediction Using Fugaku." The event had a total of 178 participants (including 109 IEEE members).

Data assimilation is crucial for synchronizing simulations with the real world for prediction and control. Although it has advanced significantly in weather forecasting, its applications are expanding into various fields as a method for realizing digital twins. At RIKEN, new-generation technologies such as the supercomputers "K" and "Fugaku," phased array weather radar, and satellite data are combined to pioneer innovations in predicting guerrilla rainstorms, typhoons, and heavy rainfall. During the 2021 Tokyo Olympics and Paralympics, a real-time demonstration experiment of the world's leading guerrilla rainstorm prediction, updated every 30 seconds, was successfully achieved using the power of the "Fugaku" supercomputer. Furthermore, prediction and control are closely related, with data assimilation being based on optimal control methods. In the context of advancements in predictability research and improved weather forecast accuracy, efforts towards weather control have also begun, with the speaker taking a leading role in the Moonshot Goal 8 project led by the Cabinet Office. Looking ahead, a new perspective known as "predictive science," which aims to tackle challenges beyond weather forecasting, is emerging.

The lecture on weather prediction and control was very engaging. After the lecture, there were many questions, making the event lively and successful.



Dr. Miyoshi giving his talk (Screenshot)



Big Data Assimilation (Screenshot)

(Reported by LMAG-Tokyo, Hideki Hayashi)

