



17 December 2024

Report on IEEE Systems, Man and Cybernetics Society Distinguished Lecturer Program (DLP) event at Sunway University, Malaysia

The IEEE Systems, Man and Cybernetics Society Malaysia Chapter organized the IEEE Systems, Man and Cybernetics Society Distinguished Lecturer Program (DLP) in collaboration with Sunway University that hosted it. The details are as follows:

Speaker: Prof. Giancarlo Fortino

Affiliation: Department of Informatics, Modelling, Electronics, and Systems, University of Calabria, Italy

Date: 11 October 2024 (Friday)

Talk: **Edge Intelligence for the Next-generation IoT Systems**

- Time: 10:00-11.30 a.m.
- Venue: Function Room 2, Sunway University, Kuala Lumpur, Malaysia.
- Mode: Hybrid

Promotion for the event was via social media, and the online event was via Zoom. The promotion poster is presented in **Appendix 1**. The event attracted **fifty-seven (57) registered participants**. Among the fifty-seven (57) registered participants, forty (70%) registrants chose online, while seventeen (30%) registrants chose onsite. **Twenty-three (40%) of the registrants were IEEE members**. Twenty-five (44%) from Sunway University, while the other nine registrants (16%) were from Universiti Tunku Abdul Rahman, Multimedia University, University of Nottingham and Universiti Kuala Lumpur. The talks were comprehensive, informative and motivating. Prof. Fortino presented for the full 2 hours, including the question-and-answer sessions. The significance of the talks is as follows:

Edge Intelligence, its design, and adaptations to different contexts of applications and requirements, and corresponding optimization tradeoffs between latency and accuracy in environments of different complexities is of interest to many researchers in Malaysia. The talk was very timely, showcasing successes in implementations, especially to postgraduate students. They were inspired.

Furthermore, Prof. Fortino disseminated information and results about the MUR PRIN COMMON-WEARS project and exchanged ideas with colleagues and students at Sunway University during and after his talks. With Prof. Fortino's permission, the slides were shared via Google Drive with the IEEE SMC Society Malaysia Chapter's organizing committee, Sunway University, and participants who expressed interest in having the files and collaborating with Prof. Fortino. Some photos at the onsite venue are in **Appendix 2**.

The report above and the photos in the Appendices are by **Ts. Prof. Dr. Chien-Sing, LEE** (Executive Committee Member (DLP Portfolio), 2024 IEEE SMC Society Malaysia Chapter).

Appendix 1: Poster



SUNWAY UNIVERSITY



School of ENGINEERING & TECHNOLOGY

IEEE SMC -Sunway University Distinguished Lecturer Talk

Date: 11th October 2024
 Time: 10 a.m. -12 noon
 Venue: Function Room 2

SYNOPSIS

Edge Intelligence for the Next-generation IoT Systems

Due to the inherent limitations of cloud computing (latency, autonomy, cost, etc.), edge intelligence has increasingly become a viable alternative. This talk presents a systematic analysis and comparison of the state-of-the-art IoT-cloud trends and findings (past, present and future) via the PRISMA methodology, and concludes with derivation and elaboration of the *EdgeMiningSim* methodology. The latter is suitable for descriptive/predictive models in constrained and dynamic IoT scenarios.



SPEAKER

REGISTER



Prof. Giancarlo Fortino
University of Calabria, Italy

Prof. Giancarlo Fortino received a PhD in Computer Engineering from Unical in 2000 and is an IEEE Fellow since 2022. He had 25+ highly cited papers in WoS, h-index=81 with 23000+ citations in Google Scholar. His research interests include wearable computing systems, e-Health, Internet of Things, and agent-based computing. He is (founding) series editor of IEEE Press Book Series on Human-Machine Systems and EIC of Springer Internet of Things series and AE of premier Int'l Journals, e.g. IEEE TASE (senior editor), IEEE TAFFC-CS, IEEE THMS, IEEE T-AI, IEEE IoTJ, IEEE SJ, IEEE JBHI, IEEE SMCIM, IEEE OIEMB, IEEE OJCS, Information Fusion, EAAL.

He is also cofounder and CEO of SenSysCal S.r.l., a Unical spinoff focused on innovative IoT systems, and recently cofounder and vice-CEO of the spin-off Bigtech S.r.l. focused on big data, AI and IoT technologies. Fortino is currently AVP of the Cybernetics area of the IEEE SMCS, former member of the IEEE SMCS boG and former chair of the IEEE SMCS Italian Chapter.

Appendix 2: Onsite photos (top) and online photos (bottom)

