

EVENT REPORT

IEEE AP/MTT/EMC Joint Chapter Distinguished Lecturer (DL) Workshop Asia Series 2026

3 April 2026 | Bilik Mesyuarat Perdana, Aras 4, Bangunan Pentadbiran, Fakulti Kejuruteraan & Alam Bina (FKAB), UKM

Program	IEEE AP/MTT/EMC Joint Chapter Distinguished Lecturer (DL) Workshop Asia Series 2026
Date	3 April 2026
Venue	Bilik Mesyuarat Perdana, Aras 4, Bangunan Pentadbiran, FKAB, Universiti Kebangsaan Malaysia (UKM)
Organizer	PAKET, IPI and IEEE AP/MTT/EMC Joint Chapter
Prepared based on	Tentative programme and speaker abstracts provided by organizer

Executive Summary

The IEEE AP/MTT/EMC Joint Chapter Distinguished Lecturer (DL) Workshop Asia Series 2026 was held on 3 April 2026 at the Bilik Mesyuarat Perdana, Aras 4, Bangunan Pentadbiran, Fakulti Kejuruteraan & Alam Bina (FKAB), Universiti Kebangsaan Malaysia (UKM). The programme was jointly organized by PAKET, IPI, and the IEEE AP/MTT/EMC Joint Chapter. The workshop brought together internationally recognized speakers from Taiwan, Türkiye, China, the United States, and Singapore, alongside academics, postgraduate students, undergraduate students, and professional participants from the local community.

The event served as a high-impact technical platform for knowledge sharing in antennas, computational electromagnetics, electromagnetic sensing and imaging, electrically small antennas, and engineering education. Across two technical sessions, the invited Distinguished Lecturers addressed both foundational and emerging issues in electromagnetics, including 5G smartphone antenna arrays, advanced computational methods, inverse problems, metamaterial-inspired electrically small antennas, and the teaching of next-generation electromagnetic engineering. The programme also provided valuable opportunities for academic networking, professional exchange, and future collaboration among participants and speakers.

Programme Overview

Workshop title	IEEE AP/MTT/EMC Joint Chapter Distinguished Lecturer (DL) Workshop Asia Series 2026
Date	3 April 2026
Venue	Bilik Mesyuarat Perdana, Aras 4, Bangunan Pentadbiran, FKAB, UKM
Meal venue	Courtyard, Bangunan Pentadbiran FKAB
Organizers	PAKET, IPI and IEEE AP/MTT/EMC Joint Chapter
Format	In-person distinguished lecturer workshop with structured technical sessions and networking
Reference source	Tentative programme, speaker abstracts, and speaker biographies

Scientific Programme

Session 1, 9.50 am - 12.50 pm

Prof. Desmond Sim, National Sun Yat-sen University, Taiwan - *Novel Techniques Applied to MIMO Antenna Array for 5G Sub-7 GHz Smartphone Applications*

The lecture highlighted the evolution of smartphone antennas from early single-band concepts to modern multi-band 4G LTE and 5G Sub-6/Sub-7 GHz platforms. Particular emphasis was placed on wideband solutions for NR bands n77, n78, and n79, as well as design strategies for improving isolation and overall performance in compact MIMO smartphone environments.

Prof. Ozlem Ozgun, Hacettepe University, Turkiye - *Advanced Computational Electromagnetics: Beyond the Standard Numerical Modeling Techniques*

This presentation examined the growing complexity of computational electromagnetics and reviewed advanced approaches such as hybrid methods, domain decomposition, and large-scale parallel solvers. It also highlighted current trends including GPU-enabled computation and machine learning-based surrogate models for faster and more efficient electromagnetic simulation.

Prof. Maokun Li, Tsinghua University, China - *Electromagnetic Sensing and Imaging*

The talk discussed electromagnetic inverse problems and practical applications of sensing and imaging, ranging from hydrocarbon exploration to biomedical diagnosis and radar imaging. It demonstrated how advances in algorithms, high-performance computing, and sensing technologies continue to broaden the impact of electromagnetic imaging.

Prof. Richard W. Ziolkowski, University of Arizona, USA - *Electrically Small Antennas: Advances in Efficiency, Bandwidth, and Directivity*

The session reviewed metamaterial-inspired electrically small antennas and demonstrated how innovative resonant parasitic designs can achieve improved bandwidth, efficiency, and directivity. The lecture also introduced advanced high-directivity configurations relevant to future wireless ecosystems and next-generation communication systems.

Session 2, 2.45 pm - 4.15 pm

Prof. Eng Leong Tan, Nanyang Technological University, Singapore - *Fundamental Quantity and Equations for Electromagnetics From Classical to Quantum*

This lecture introduced the concept of field-impulses as gauge-invariant physical quantities and discussed their significance in unifying static, dynamic, and quantum electromagnetic phenomena. The topic offered an intellectually stimulating perspective on the future foundations of electromagnetic theory and simulation.

Prof. Levent Sevgi, Istanbul Technical University, Turkiye - *From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/Training Next Generations*

The closing lecture reflected on the broadening role of electromagnetic engineering in communication, sensing, defense, medicine, and modern technology systems. It emphasized the importance of balancing theory, simulation, and practice in preparing future engineers to address increasingly complex and multidisciplinary electromagnetic challenges.

Programme Flow and Participant Experience

The programme began with registration and breakfast, followed by welcoming remarks from the Chair of the IEEE Malaysia AP/MTT/EMC Joint Chapter and opening remarks by the Dean of Fakulti Kejuruteraan & Alam Bina, UKM. This formal opening set an academic and professional tone for the workshop and reflected the institutional support behind the event.

The technical content was carefully arranged into a morning and afternoon session, with a lunch break and Friday prayer interval in between. This structure allowed participants to remain engaged

throughout the day while also ensuring sufficient breaks for reflection, networking, and informal discussion among speakers and attendees.

The workshop concluded with a closing ceremony and photo session, followed by a coffee and tea break. This final segment provided an appropriate setting for participants to continue discussions with the speakers, strengthen professional connections, and explore opportunities for future collaboration in research, teaching, and technical activities.

Academic and Professional Impact

The workshop delivered substantial academic value by exposing participants to a wide spectrum of contemporary research themes in antennas and electromagnetics. The invited talks combined theoretical rigor with practical relevance, enabling participants to appreciate both the scientific depth and the engineering applications of current developments in the field.

For students and early-career researchers, the event offered direct access to internationally accomplished scholars whose expertise spans wireless communication, computational methods, imaging, metamaterials, and engineering education. Such exposure is important for motivating advanced study, broadening research perspectives, and strengthening interest in high-impact areas of antenna and propagation research.

From a professional standpoint, the event reinforced the role of the IEEE Distinguished Lecturer platform as a catalyst for regional engagement, technical excellence, and global connectivity. By hosting multiple lecturers in a single programme, the organizers successfully created a forum that elevated the local research environment while strengthening links between Malaysia and the wider international electromagnetics community.

Attendance and Engagement

Based on the registration form, the workshop recorded a total of 48 registered participants. The audience comprised academic staff, postgraduate students, undergraduate students, and professional participants, reflecting strong interest in the technical themes covered by the programme.

Participants represented at least 16 institutions and organizations, including Universiti Kebangsaan Malaysia (UKM), Universiti Malaysia Perlis (UniMAP), Universiti Teknologi Malaysia (UTM), International Islamic University Malaysia (IIUM), Universiti Teknologi MARA (UiTM), Universiti Teknikal Malaysia Melaka (UTeM), Universiti Sains Malaysia (USM), Universiti Tun Hussein Onn Malaysia (UTHM), Universiti Putra Malaysia (UPM), Universiti Pertahanan Nasional Malaysia (UPNM), Wawasan Open University (WOU), Xiamen University Malaysia, Tunku Abdul Rahman University of Management and Technology (TAR UMT), The Institution of Engineers, Malaysia (IEM), CAD-IT Consultants (M) Sdn. Bhd., and Nanyang Technological University (NTU), Singapore.

This profile of attendance indicates that the workshop achieved good outreach beyond the host institution and successfully attracted a diverse group of participants from universities, professional bodies, and industry. The registration record has been compiled and included in Appendix B for reference.

Photo Documentation







Conclusion

The IEEE AP/MTT/EMC Joint Chapter Distinguished Lecturer (DL) Workshop Asia Series 2026 was successfully carried out as a high-value technical programme that combined international scholarly perspectives with local academic engagement. Its carefully curated talks, strong institutional involvement, and opportunities for professional interaction contributed to a meaningful and well-rounded event. Overall, the workshop not only enhanced technical knowledge in the area of electromagnetics and antenna engineering, but also strengthened networks that can support future collaboration, capacity building, and continued IEEE chapter activities in the region.

Appendix A: Tentative Programme

Time	Activity
8.00 - 9.00 am	Registration
9.00 - 9.30 am	Breakfast
9.30 - 9.40 am	Welcoming remarks from Chair of IEEE Malaysia AP/MTT/EMC Joint Chapter
9.40 - 9.50 am	Opening remarks from Dean of Fakulti Kejuruteraan & Alam Bina (FKAB), UKM
9.50 - 12.50 pm	1st session of DL talks
12.50 - 1.30 pm	Lunch break
1.30 - 2.45 pm	Friday prayer
2.45 - 4.15 pm	2nd session of DL talks
4.15 - 4.30 pm	Closing ceremony and photo session
4.30 pm	Coffee/tea break and end session

Appendix B: Registered Participant List

The following participants were registered for the IEEE AP/MTT/EMC Joint Chapter Distinguished Lecturer (DL) Workshop Asia Series 2026 based on the registration form records.

1. Prof Ir Dr Norhana Arsad
2. Prof Madya Dr Mohd Fais Mansor
3. Md. Sorowar Mahabub Rabby
4. MD KUTUB UDDIN
5. MD.Bakey Billa
6. Nazimul Mowla Chowdhury
7. Nadia Reza

8. Abdulhakeem Qusay Ali Al-Bayati
9. Taha Bahaa Khaleel Al-taie
10. Md. Golam Rabbani
11. Md. Zikrul Bari Chowdhury
12. Hasniza binti Hambali
13. Azremi Abdullah Al-Hadi
14. John Tang
15. Marwah Mohammed Mosa
16. Dr Mohammad Tariqul Islam
17. Norun Farihah vinti Abdul Malek
18. Prof Ir Dr
19. Prof. Madya Ir. Dr. Nurul Huda Abd Rahman
20. Dr Mohamad Zoinol Abidin Bin Abd Aziz
21. Ts. Dr. Cheor Wai Loon
22. Ms. Dalila Binti Misman
23. NURJIHA BINTI ABDUL RASAK
24. AININ NAZIRA BINTI KAMAL
25. Assoc. Prof. Ir. Ts. Dr. Saidatul Norlyana Azemi
26. MRS.NUR BAYA BINTI MOHD HASHIM
27. Muhammad Laitz Musawwi
28. Professor Dr. Yoshihide Yamada
29. Mr. Md. Abir Hossain
30. Woi Yi Kai
31. Mr. Hamza Ahmad
32. Dr Aslina
33. Phung Cheng Fei
34. DR INTAN SORFINA ZAINAL ABIDIN
35. SREE RAAM A/L TH SUBRA@SUBRAMANIAM
36. Ir Dr Chan Cheong Loong
37. Mr. Ali
38. Kamran Arif
39. Assoc. Prof. Dr. Nor Muzlifah Mahyuddi
40. Prof Ir Dr Fauziahanim Che Seman
41. Dr. Izni Husna Idris
42. Sadia Afroz
43. Dr. Norsiha binti Zainudin
44. Sazzad Ahmed
45. Mohammad Amin Bin Salamat
46. Ts Dr Sarah Yasmi Mohamad
47. Dr shipun anuar hamzah
48. tan