

# EuCAP 2025, MAPCON 2024, IEEE VIC Summit, and Workshops in India

## EuCAP 2025 CONFERENCE IN MARCH 2025 IN STOCKHOLM, SWEDEN

Report by: Juan R. Mosig 

### INTRODUCTION

The European Conference in Antennas and Propagation (EuCAP) is the flagship conference of the European Association on Antennas and Propagation (EurAAP) (<https://www.euraap.org>). This year, the 19th edition, EuCAP 2025, took place in Stockholm, Sweden, on 30 March–5 April 5.

The 2025 edition confirmed the trend observed in the postpandemics years with the return to face-to-face physical meetings, and again, the previously unthinkable barrier of 1,700 attendees has been broken.

This success is due, of course, to the commitment of the EuCAP 2025 Chair, Prof. O. Quevedo-Teruel (KTH Stockholm); his Vice-Chairs, Dr. Agnese Mazzinghi (Florence University, Italy) and Dr. Nelson Fonseca (Anywaves, France); and to the dedication of all the committees, organizing teams, and cooperating universities, not forgetting the crew of Master's students, generously provided by KTH, who contributed their all to the amazing success of this conference.

Also, thanks be given to the international associations that have implemented a lasting strong collaboration with the EuCAP conference through signed memorandums of understanding (MoUs) with EurAAP. Their names are well known in our community: Antenna Measurement Techniques Association, European Space Agency (ESA), European Conference on Networks and Communications, European Microwave Association, IEEE Antennas and Propagation Society (AP-S), Institute of Engineering and Technology, International Symposium on Antennas and Propagation, Metamorphose VI, and International Scientific Radio Union. This year, a new MoU was signed with the IEEE Microwave Theory and Technology Society (MTT-S).

### SOME NUMBERS

EuCAP 2025 welcomed 1,702 (!) registered delegates from more than 60 countries. The largest national representation was, quite logically, the local one from Sweden (14%). The “Big Five” European countries (in our domain, France, Germany, Italy, Spain, and the United Kingdom) accounted roughly for 40% of the participants. And it is worth mentioning that 26% of the attendees came from outside Europe, including a strong Chinese participation. The remaining 20% was distributed among other European countries.

This year, the paper submission again broke the EuCAP record, with 1,287 submitted papers. A healthy rejection rate of 18% ensured the quality of the presented papers. European submissions represented 68% of the total, and a remarkable increase of Asia-Pacific papers (19%) was observed.

The 1,053 accepted papers were presented both in oral sessions (763 = 72%) and as posters (290 = 28%); 648 papers (62% of the total accepted) were unsolicited contributions, presented in oral and poster sessions, while the remaining 405 papers (38%) were the outcome of 48 convened oral sessions. This year, an additional emphasis was put on Workshops (11 Scientific and 14 Industrial) and on Short Courses (13), in both half-day and one-day versions.

The EuCAP conference continues to classify its papers into useful Application Tracks, which are continuously redefined and adapted. This year, the most popular tracks were “MM-wave and THz for terrestrial networks 5G/6G,” followed by “Electromagnetic Modeling and Simulation Tools” and “Fundamental Research and Emerging Technologies/Processes,” these three tracks having more than 200 papers each.

Sweden is fertile ground for AP industries. It is no surprise that EuCAP 2025 boosted a record-breaking

Exhibition, with 57 international Exhibitors, covering the whole gamut of AP activities. Add to this a rich social program for both delegates and accompanying persons and you will start to understand why EuCAP 2025 was an undeniable success. All this was also facilitated by the generosity of the 21 sponsors, to whom deeply felt thanks must be given, starting with the three Platinum sponsors: Ericsson, Microwave Vision Group, and Saab.

## ORGANIZATION DETAILS

The basic schedule of EuCAP conferences is now well established, although there is always room for innovation and improvement and the need to adjust to the conditions of every venue.

The venue for the 2025 edition was the Stockholm Waterfront Congress Center, a state-of-the-art facility conveniently located in downtown Stockholm. Indeed, the terminus station of the Arlanda airport train line has an exit directly in front of the venue, making it hard to imagine an easier-to-reach place. The conference center was perfectly suited for EuCAP and its traditional program, allowing up to 17 parallel sessions and offering excellent conference rooms, some having beautiful views of the Stockholm downtown landscape and many bearing the names of well-known scientists, like the magnificent Alfvén room (the main Congress Hall, accommodating 1,300 people, perfect for the Plenary session and the Opening, Awards, and Closing ceremonies).

On Monday, the usual Opening address (Figure 1), with participation of all the collaborating International Societies, was chaired by the EurAAP Chair, Stefania Monni (TNO, The Netherlands). It was followed by a very successful Plenary Session, including three prestigious keynote speakers: Petter Bedoire (Saab), Magnus Frodigh (Ericsson), and Elena Saenz (ESA).

Then, the conference followed the traditional format of EuCAP, which includes parallel sessions in the morning and late afternoon, while in the

early afternoon, between lunch and the coffee break, the primary events are the poster sessions, followed by two semiplenary sessions. These include only two presentations per day, resulting in a total of 12 invited papers given by top-notch speakers. The Exhibition space was large enough to accommodate relaxed coffee and lunch breaks, thus providing excellent opportunities for close interactions between exhibitors and attendees.

This year, the EurAAP Awards ceremony was moved to the end of Tuesday's sessions and followed by a Cocktail Reception in the Exhibition area, sponsored by Huawei and allowing extra visibility for the Exhibitors. This was a wise decision, well received by most attendees.

The winners of the five prestigious EurAAP Awards were Zhi Ning Chen, National University of Singapore, Singapore (Antennas Award); Andreas Molisch, University of Southern California, United States (Propagation Award); Walter Fuscaldo, National Research Council, Italy (Felsen Award); Oskar Zetterström, KTH, Sweden; Riccardo Ozzola, TU Delft, The Netherlands (Kildal Award); and Anthony Grbic, University of Michigan, United States, and Zvonimir Šipuš, University of Zagreb, Croatia (European School of Antennas

Award). Please, consider applying for the 2026 Awards (<https://www.euraap.org/awards>).

Indeed, EuCAP 2025 was a very innovative edition. Among the novelties, a pleasant surprise was the complimentary Childcare area, run by qualified and experienced educators and available for delegates' children ages 1 to 12. Also, two EurAAP Working Groups (Early Careers and Women in Antennas and Propagation) joined forces and co-organized a workshop about AP careers and job possibilities, including an inspiring talk by C. Fuglesang, Swedish astronaut and KTH professor, and ending with a happy hour sponsored by Viasat for the participants to mingle and exchange personal experiences.

Finally, the conference went green, doing away with conference bags, paper stuff, and USB sticks. All these deletions were more than compensated by a brand-new conference website, where the Conference e-book was available, and by an excellent and free conference app containing absolutely all the conference information and continuously updated, thanks to a reliable and fast Wi-Fi network. Even the traditional Exhibition Bingo was included in the app!

For many of us, the Stockholm Waterfront Center was the best-ever



**FIGURE 1.** Prof. F. Mesa, TPC General Chair, during the opening address.

venue for a EuCAP conference, and the perfect organization provided around it made things even more satisfying.

But EuCAP 2025 was not limited to its venue and included many outstanding social events, allowing the participants to discover exciting places in Stockholm. Everything started with Sunday's All Together Dinner at Tolv Stockholm, cosponsored by the AP-S and MTT-S, an excellent opportunity for delegates to get together in an informal setting, relax with old friends, and make new connections, enjoying some nice food, bowling, billiards, and darts.

Monday evening was the time for the traditional Conference Welcome Reception (Figure 2), hosted in the magnificent Stockholm City Hall and offered by the City of Stockholm. Built in 1923 and with a maximum capacity of 1,200 people, the City Hall is the masterpiece of the architect Ragnar Östberg and a living symbol for Stockholm. Attendees were able to enjoy a generous standing buffet and drinks in the prestigious Blue Hall, where the annual Nobel Prize Banquet takes place.

And then, on Thursday evening, an impressive Conference Dinner took

place in no less a prestigious place than the Vasa Museum. The most visited museum in Scandinavia, it displays the only almost-fully-intact 17th-century ship that has ever been salvaged (Figure 3). In a true EuCAP mood, the dinner concluded with live music and dancing for the pleasure of the 600 participants.

## CONCLUSION

EuCAP 2025 was an impressive event, organized with Scandinavian efficiency and boasting an impressive number of high-level papers, encompassing all the subjects of current interest to the AP community (see "Supplementary Material"). The weather during the week was quite warm and sunny, allowing the participants a deeply satisfying mix of professional and sightseeing activities in Sweden's capital city.

The Conference ended Friday, in the early afternoon, with the traditional Closing ceremony, announcing the future edition. Get ready for EuCAP 2026 on 19–24 March, in Dublin, Ireland!

## SUPPLEMENTARY MATERIAL



FIGURE 2. The Conference Welcome Reception at Stockholm City Hall.



FIGURE 3. The Conference Dinner at the Vasa Museum.

## IEEE MAPCON 2024, HYDERABAD, INDIA

Report by: Branislav M. Notaroš , 2024 IEEE AP-S President

This is a report on the 2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), held from 9 to 13 December 2024, in Hyderabad, India (Figure 4). This is an inter-Society international conference created, financially sponsored, and owned jointly (50–50) by the AP-S and MTT-S, to better serve our

members, colleagues, and students in India, IEEE Region 10, and beyond. In short, based on testimonies of participants and all the numbers and outcomes, MAPCON 2024 was clearly a fantastic success. A great job was done by conference General Cochairs Yogesh Kumar Verma and Sandeep Kumar Chaturvedi, Technical Program Committee Cochairs K. P. Ray and Shobha Sundar Ram, and all the many members of the Organizing Committee!

As a background of the MAPCON initiative, in 2021, the two sister societies agreed to jointly define, organize, and promote an annual Microwaves, Antennas, and Propagation Conference. MAPCON merged two existing conferences: the IEEE AP-S Indian Conference on Antennas and Propagation (InCAP) and the IEEE MTT-S International Microwave and RF Conference (IMaRC).

The inaugural edition of MAPCON took place in Bangalore, India, from 12 to 15 December 2022, and was a grand success, with about 600 papers and 800 delegates, the numbers greatly exceeding the respective typical numbers of InCAP and IMaRC combined. The conference quickly grew to about 900 attendees and 60 industry exhibitors in Ahmedabad, India, from 11 to 14 December 2023. This is a noteworthy and striking example of the strength and potential of intersocietal collaborations, where joining forces does not only add but multiply.

The third edition, MAPCON 2024, was organized at the beautiful Novotel Hyderabad International Convention Center, in the HITEC City, a high-tech industry hub of Hyderabad, the capital of Telangana, a state of India situated in the south-central part of the Indian subcontinent. We had a truly record number of authors and attendees, 1,180, which is an outstanding accomplishment. Now we are really multiplying, rather than adding, the InCAP and IMaRC numbers!

MAPCON 2024 technical program statistics include 750 submitted papers; 495 accepted papers, at an acceptance rate of 66%; and 468

papers presented in 58 oral and five poster sessions. The program ran in the following six parallel tracks over four completely packed conference days, from 10 to 13 December: Track 1: Radio-Frequency and Microwave Components, Circuits, and Systems; Track 2: Antennas and Propagation; Track 3: Emerging Technologies and Applications; Track 4: Terahertz and Photonics Technologies; Track 5: 5G/6G Research; and Track 6: Measurement Techniques. The first day, 9 December, was reserved for nine pre-conference tutorials.

MAPCON 2024 featured four plenary sessions (Figure 5), with the following speakers and talks: Maurizio Bozzi, “Microwave Sensors:

Operation Principles, Design, and Implementation Technologies”; Branimir Notaroš, “150 Years of Maxwell’s Equations and 75 Years of AP-S and CEM, With Emphasis on Current Trends and Interdisciplinary Applications”; Ahmed Kishk, “Compact Reflect/Transmit Array Antennas”; and Ram Narayanan, “Nonlinear and Harmonic Radar.” It included 17 invited keynote talks by technical and professional leaders in the field as well as special sessions with invited presentations on emerging technologies.

A signature of MAPCON 2024 was a large industry exhibition, with 70 Industry Exhibitors and 300 industry delegates, representing industrial



**FIGURE 4.** The Inaugural Session of MAPCON 2024, held from 9 to 13 December, in Hyderabad, with 2024 AP-S President Branimir Notaroš addressing the delegates.



**FIGURE 5.** MAPCON 2024 attendees listen to a plenary talk by Branimir Notaroš on 11 December. We had several other plenary sessions, keynote talks, special sessions, panels, and professional events throughout the conference.

and governmental organizations and companies performing state-of-the-art research and development in antennas and microwaves. It showcased advanced technologies and applications, measurement capabilities, and modeling tools available in AP and MTT industries and research agencies. We also had an Industry Forum, Industry Presentations Session, industry demos and product launches/introductions, and associated interactions and discussions. Some of the focused areas were 6G wireless technologies, aerospace and defense industries, chip and semiconductor applications, and start-up and entrepreneurship initiatives in India and beyond. The Exhibit Hall was the gathering place for all the attendees and the heart of the conference activities and interactions.

AP-S and MTT-S professional events during MAPCON 2024 were abundant. The Special Interest Group on Humanitarian Technology (SIGHT)/Committee on Promoting Equality (COPE)/Science, Technology, Engineering, and Mathematics (STEM) outreach event, organized by the AP-S SIGHT Committee, MTT-S SIGHT Committee, and AP-S COPE, was attended by more than 300 school children from the Hyderabad region studying STEM. We provided support for 115 students under Ph.D. and M.Tech./B.Tech. Initiatives. These awardees and about 100 more students and Young Professionals (YPs) attended the YPs and Ph.D./M.Tech./B.Tech. Connect Session, which included Mentor–Mentee Roundtables. We had outstanding participation in the Women in Microwaves, Antennas, and Propagation Panel and AP-S and MTT-S Chapter Chairs Meeting. We had many other organized and ad hoc gatherings and meetings.

The social program included the Banquet Dinner and Awards Ceremony, receptions, and networking events. Our attendees and their families and friends visited historic landmarks of Hyderabad, such as Charminar, Golconda Fort, Chowmahalla Palace, and

many others, and enjoyed the famous Hyderabad Biryani.

Get ready for MAPCON 2025, on 14–18 December 2025, in Kochi, India!

### **IEEE AP-S 2024 WORKSHOPS AND MEETINGS IN KOVALAM, HYDERABAD, JAIPUR, PUNE, AND DELHI**

**Report by:** Branislav M. Notaroš , 2024 IEEE AP-S President

This is a report on membership and outreach workshops and meetings by the AP-S all across India in December 2024. These events were initiated and organized by Chairs/Vice-Chairs of several AP-S Standing Committees, AP-S Officers, and AP-S Chapter Chairs in India, under the coordination of Branislav Notaroš, 2024 AP-S President. The AP-S delegation also included Christophe Fumeaux, Ajay Poddar, Debatosh Guha, Jawad Siddiqui, George Shaker, Yahia Antar, Weng Chew, and Surendra Pal. The dedicated AP-S chapter volunteers who were our fantastic hosts are too many to list in this very brief report (sincere apologies for that). Some events were held in collaboration with the MTT-S. Note that India has the second-largest number of AP-S members in the world, right after the United States. Moreover, AP-S membership in India is the fastest growing worldwide.

The first event took place on 8 December in Kovalam, India, as a “Multi-Society, Multi-Chapter International Workshop on Trends and Techniques on Advancement of Antenna and Microwave Technology” and “New Chapters Inauguration” (Figure 6). The presidents of the AP-S, MTT-S, and IEEE Electromagnetic Compatibility Society gave technical talks as well as professional presentations on their respective societies.

On 12 December, we conducted the “IEEE AP-S and MTT-S India and Region 10 Chapter Chairs Meeting,” with active participation of more than 100 chapter officers, in Hyderabad, in conjunction with MAPCON 2024 (Figure 7). The AP-S President

gave a presentation on “Advancing Impacts of IEEE Antennas and Propagation Society in India and IEEE Region 10.”

This was followed by the “IEEE AP-S Jaipur Meetings” with officers and members of the AP-S/Council on RFID (CRFID) Chapter Delhi Section, at Malaviya National Institute of Technology, Jaipur, India, on 14 December.

Next, the AP-S delegation participated in the “Electromagnetics and Sustainability Special Session” of the 2024 IEEE Pune Section International Conference and the “Inauguration Ceremony for AP-S DIAT Student Branch Chapter,” Defense Institute of Advanced Technology (DIAT), Pune, India, on 15 December (Figure 8). The culmination of the Pune visit was the Awards Ceremony for IEEE Eu-Reka 2024, an AP-S COPE Cosponsored Project to empower rural children to pursue higher education, organized by the IEEE Pune Section and AP-S COPE and presided by the AP-S President (Figure 9).

The AP-S India tour finished in New Delhi, India, with the “IEEE AP-S Workshop IIT Delhi,” including several technical talks by AP-S leaders, at the Indian Institute of Technology Delhi (Figure 10), and AP-S/CRFID Chapter Delhi Section meetings at the University of Delhi on 17 December.

The outlined AP-S workshops and meetings are just an example of our concerted efforts and actions in India and Region 10 toward AP-S membership growth and retention as well as meeting technical and professional needs of our members and the community at large. As a result, and thanks to incredible work and contributions by Ajay Poddar and all AP-S leaders and volunteers, we recorded a truly dramatic increase in AP-S membership in India, from 1,594 to 3,182—unprecedented 100% growth—in one year, 2024. We are continuing and enhancing such efforts and actions worldwide to benefit our membership and the profession at large.



**FIGURE 6.** The AP-S/MTT-S/IEEE Electromagnetic Compatibility Society Workshop on Antenna and Microwave Technology on 8 December, in Kovalam.



**FIGURE 7.** The AP-S and MTT-S India Chapter Chairs Meeting on 12 December, in Hyderabad, as part of MAPCON 2024.



**FIGURE 8.** The Professional AP-S Meeting and New AP-S Chapter Inauguration Ceremony on 15 December, at DIAT, Pune.



**FIGURE 9.** The Eu-Reka 2024 Awards Ceremony, with winning students, AP-S leaders, and IEEE Pune Section officers.



**FIGURE 10.** The AP-S Workshop and Professional Meeting on 17 December, at the Indian Institute of Technology Delhi.

## IEEE VIC SUMMIT AND HONORS CEREMONY AND IEEE YPS AND LAUREATE FORUM

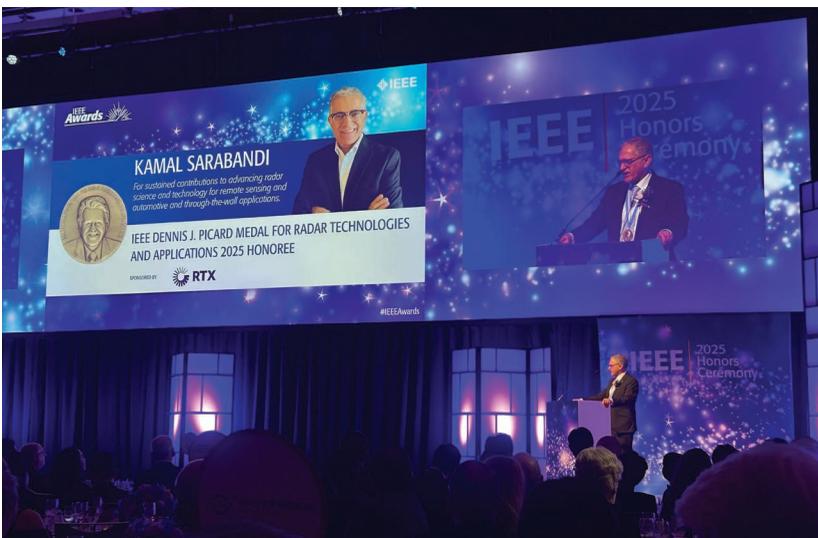
**COMMITTEE CHAIR: C. J. REDDY, 2025  
AP-S PRESIDENT-ELECT**

Report by: Zhijiao Chen <sup>1b</sup>

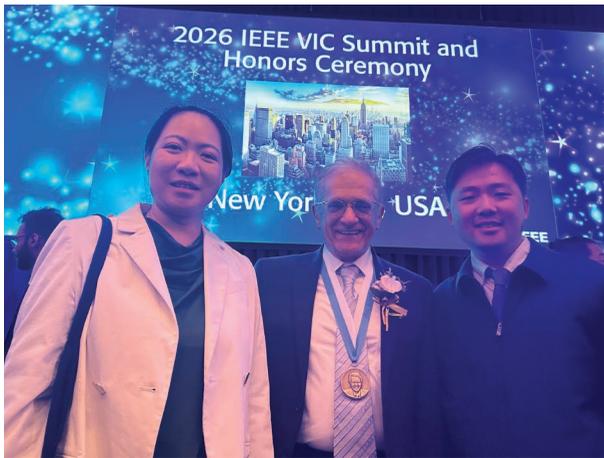
The IEEE Vision, Innovation, and Challenges (VIC) Summit is a platform where leading experts, visionaries, and innovators from various fields of engineering, science, and technology come together to discuss and share their insights on the future

of innovations, predictions, and challenges in advancing technology. The Honors Ceremony is an evening celebration that recognizes and honors the achievements of individuals who have made significant contributions to the fields of engineering, science, and technology.

At the 2025 VIC Summit and Honors Ceremony, the first-ever IEEE YPs and Laureate Forum was held, on 23 April. This forum is an inspiring new event that took place before the prestigious IEEE Honors Ceremony. It is dedicated to recognizing and celebrating the remarkable achievements of YPs, early-career technologists, innovators, and researchers from around the world. In 2025, up to 50 YPs had an opportunity to participate in a first-year prelaunch event and receive a travel grant to join high-level technical professionals on 23–24 April in Tokyo, Japan. From the AP-S, Dr. Zhijiao Chen (2022 AP-S YPs Ambassador and 2022 YP of the Year Award Winner) and



**FIGURE 11.** Prof. Kamal Sarabandi receives the IEEE Dennis J. Picard Medal for Radar Technologies and Applications for significant contributions to the world through science, education, and entrepreneurship.



**FIGURE 12.** Dr. Chen and Dr. Li meet Prof. Kamal Sarabandi.



**FIGURE 13.** Prof. Kathleen A. Kramer, 2025 IEEE President and Chief Executive Officer, with Dr. Li (left) and Dr. Chen (right) along with other attendee at the ceremony.

Dr. Min Li (2025 AP-S YPs Ambassador) were selected and honored as recipients of the travel grant for the IEEE YPs and Laureate Forum. It is also a proud moment for the AP-S, with Prof. Kamal Sarabandi receiving the IEEE Dennis J. Picard Medal for Radar Technologies and Applications at the 2025 VIC Summit and Honors Ceremony (Figure 11).

Dr. Chen and Dr. Li had a chance to meet Prof. Sarabandi during the ceremony. It was a privilege to discuss with Prof. Sarabandi his experience in antenna research and education (Figure 12). Dr. Chen and Dr. Li also had an opportunity to meet with Prof. Kathleen A. Kramer, 2025 IEEE President and Chief Executive Officer (Figure 13).

### SUPPLEMENTARY MATERIAL



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