

Access to researchers and latest information

from around the world

Narihiro Nakamoto



【Career】

Majored in electrical engineering at Kyoto University. After graduation, he joined Mitsubishi Electric Corporation, where he worked in the Antenna Engineering Department of the Information Technology Research Laboratory. He is engaged in research and development of antennas for radar and communications.

【The current research】

He is engaged in the research and development of antennas used in various types of radar and satellite communications, especially a method called "Phased array". These days, phased arrays have been applied to many applications such as 5G base stations, he is researching and developing technologies to achieve both low cost and high performance.



What brought you to IEEE?

I work as a researcher in a company; the company is active in academic societies, and we are encouraged to participate in IEEE, the world's largest academic societies of telecommunications. Especially, the field related to antenna, which is my subject, is actively involved with IEEE and many researchers are the members. They introduced IEEE to me right after I joined the company. I used to take advantage of IEEE for my input right after my participation, like searching papers or purchase of books. The turning point was when my paper won a young researchers award sponsored by a domestic IEEE organization unit. Then it helped me to make myself heard and it became easier for me to do work at the academic society. Various professors kindly gave me advice and the relationship with IEEE got well established, leading to an opportunity to help an organization hold an academic conference.

What advantage can we take of IEEE?

It's advantageous that we can communicate closely with professors in universities. In particular, by active participation in IEEE activities you can experience something otherwise inaccessible in ordinary days. IEEE holds special lectures and international conferences by inviting domestic or international specialists; when I was an official of a domestic chapter where researchers of a feather get together, I was involved in organizing international conferences, where I got to know many professors. The activities of IEEE and relationships with professors will be helpful for me to gain my doctorate, I believe.

What is great about IEEE?

『Excellent tool to search papers』

One of the most appreciated privileges for IEEE members is IEEE Xplore Digital Library, which is a tool to search papers. Just entering keywords related to what you need will extract the relevant articles from the papers of researchers all over the world. In a domestic academic society, we often read papers in Japanese only; thus, the capability of directly looking up papers from all over the world is greatly helpful for daily researches. I myself often owe a lot to it.

『Cross-disciplinary magazine』

IEEE Spectrum, which is a free magazine for members, is also one of the privileges; it's not only about telecommunication but also various world-leading technologies, and so informative. It's helpful to catch up with the trends in the world or understand demands, so I often read one when I commute to gather information to plan research and development in my company.

Relationship between a company and IEEE

Giving a presentation in an academic society on behalf of a

company is one of public relations activities to widely promote the company's advanced technology. Our company is actively working for academic societies domestically and internationally, so involved with IEEE. Publishing a paper in IEEE or giving a presentation in an international conference will be a good opportunity to make our development understood by many people. Also, university students participate in such a conference, so companies can share their activities and researches with them as part of recruiting process.

【Message】

– IEEE lets you access otherwise unavailable information domestically

IEEE is one of the largest societies in the field of telecommunication, so you will have opportunities to access otherwise unavailable information if you are actively involved. Especially, in lectures about world-leading technologies held by inviting foreign professors in Japan you can talk with well-known researchers, which is exclusively precious. I expect that more local conferences in overseas will be held online and many people can attend them virtually. I think there are a lot to gain as a researcher, so if you are not yet an IEEE member, let's check the site to know what service is available. If you are already a member, please participate in activities of IEEE, which will be beneficial for researchers and duties in a company.



Use image of small array antenna as outcome of research (airport radar/video transmission/microwave heating)

URL

<https://ieee-jp.org/about/voice.html>

