

Discussion

Tsu-Jae King Liu

Q: Lithography technology is going to face a difficult situation from a technological and economic point of view. What do you think about the future of lithography technology?

A: I'm optimistic about lithography technology. By using EUV and imprinting, mass production with 10 nm scale lithography is possible. The economical difficulties may be overcome by lowering costs through mass production.

Q: According to your presentation, fin-FET transistors seem perfect. Why hasn't fin-FET replaced MOS transistors?

A: Until conventional structures face unsolvable difficulties, there won't be a strong demand.

Barry Stipe

Q: Is the HDD drive robust against cosmic rays?

A: Yes. It uses magnetic operational principles.

Q: How long can HDD can keep stored information?

A: More than 10 years.

Masayuki Mizuno

Q: Windows is designed to send error information to Microsoft after a user's agreement. Does your proposal have similar privacy concerns?

A: No. The proposed self-feedback mechanism works in a chip, so no signal should be sent outside.

Q: Why do you focus on jitter?

A: This is just an example. Since jitter is one of the most important factors determining chip performance, it is a good example.

Kohei Ito

Q: Currently applications of quantum computers are very limited. How do you increase applications?

A: We all, including scholars and engineers in physics, mathematics, electronics, computer science and so on, need to work on this in the future.