

Seminar at Foton Laboratory



Opto-electronic devices utilizing "modes" for future optical communication network

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Abstract: Recent activities of our laboratory will be presented including active MMI laser diodes for higher speed communication, optical mode switch for higher speed router network, and a-OAM device for high capacity transmission by using multi-core fiber.



Kiichi Hamamoto received B. Eng. and M. Eng. in electrical engineering from Waseda University, Tokyo, Japan, in 1986 and 1988, respectively, and Ph.D. in electrical engineering from Swiss Federal Institute of Technology, Zurich, Switzerland, in 2000. In 1988, he joined NEC Opto-electronics Laboratories, where he was engaged in research on opto-electronic devices including optical switch, semiconductor optical amplifier, laser diode, and photonic integrated circuit. From 1996 to 1997, he was a guest researcher at ETH-Zurich, and at there, he proved and invented active-multimode interferometer devices for the first time. He was also a guest researcher of Technical University of Denmark in 2003. Since 2005, he has been a professor at Kyushu University, Fukuoka, Japan.

Dr. Hamamoto is a senior member of IEEE Photonics Society, a life member of Optical Society of America (OSA), a member of Institute of Electronics, Information and Communication Engineers (IEICE), and a member of Japan Society of Applied Physics (JSAP). He was a chair of IEICE opto-electronics technical committee on 2009, and was a program committee co-chair of ECIO-MOC 2014.

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