

Proceedings of the 1st meeting on Basic Color-Vision Science in Japan

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About the meeting

This meeting was held on January 26, 2008, at O-okayama Campus (Tokyo, Japan) of Tokyo Institute of Technology. The scope of this meeting was to introduce the front end of the basic science studies on color vision (mainly in humans and monkeys). Talks by seven Japanese speakers and an invited speaker from Germany covered the following topics: color-vision mechanisms (early-, middle- and higher-order mechanisms), various types of color vision (including normal aging and color-universal design), natural scene statistics, and color appearance.

We had 42 audiences (26 pre-registered and 16 on-site attendees) from universities (faculties, post-doctoral researchers and graduate students), research institutes (national institutes and industries) and a non-profit organization.

Dr. Thomas Wachtler (Uni. Marburg, invited speaker) introduced several similarities between orientation and color selectivity. He introduced various experimental evidences, which was mainly obtained through his previous studies, to demonstrate the similarities of tuning characteristics and perceptual phenomena between orientation and color. In the following pages, the summary of their talk and the discussions made at the meeting will be introduced by each speaker.

Finally, we would like to appreciate contributions and enthusiasms of all speakers and attendees on this meeting, in addition to generous supports from the Vision Society of Japan, as well as the vision-science group in the Optical Society of Japan (a part of Japanese Society of Applied Physics).

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