Yoichi Miyawaki

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- Kenshu Koiso, ProfileAnna K Müller, Kazuaki Akamatsu, Sebastian Dresbach, Christopher J Wiggins, Omer Faruk Gulban, Rainer Goebel, Yoichi Miyawaki, Benedikt A Poser, Laurentius Huber, "Acquisition and processing methods of whole-brain layer-fMRI VASO and BOLD: The Kenshu dataset."

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[2] Yoichi Miyawaki, "VR x Neurotech," Organized Symposium, Virtual Conference 2022, online, December 2022 (scheduled).

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7T magnetic field," RIKEN CBS Collaborative International Conference, RIKEN, Saitama, October-November 2022.

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Domestic Conference

[1] Yoon Sukjoon, Rina Watanabe, Kazuaki Akamatsu, Tomohiro Nishino, Noriya Asami, Yoichi Miyawaki, "Rapid gaze attraction toward higher visual features synthesized by deep neural network," Vision Science Society 2023 Winter meeting, Kogakuin University (submitted).

[2] Yusuke Uchida, Guohua Shen, Kanau Sawa, Shu Fujimori, Ganesh Gowrishankar, Yoichi Miyawaki, "Evaluation of model independency of non-coding image synthesis using deep learning network," Vision Science Society 2023 Winter meeting, Kogakuin University (submitted).

[3] Kenshu Koiso, Kazuaki Akamatsu, Sebastian Dresbach, Christopher J Wiggins, Omer Faruk Gulban, Yoichi Miyawaki, Benedikt A Poser, Renzo Huber, "A whole-brain 7T layer-fMRI dataset: improvement on artifact level and neuroscientific applicability," 6th Japanese Meeting for Human Brain Imaging, Tamagawa University, Tokyo, Japan, September 2022.

[4] Rei Yasuda, Yui Takahara, Daichi Ueda, Ken Arai, Masaki Fukunaga, Gowrishankar Ganesh, Yoichi Miyawaki, "Changes in brain activity patterns by embodiment of a supernumerary limb," 6th Japanese Meeting for Human Brain Imaging, Tamagawa University, Tokyo, Japan, September 2022.

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[7] Guohua Shen, Kanau Sawa, Shu Fujimori, Ganesh Gowrishankar, Yoichi Miyawaki, "Attenuated perception of visual stimuli synthesized from subspace activity of deep neural network," 2022 summer meeting of Vision Society of Japan, Kanazawa University, Ishikawa, Japan, September 2022.

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[10] Kaito Sato, Megumi Nozaki, Shun Nakatani, Haruka Takahashi, Motofumi Sumiya, Ryo Kitada, Norihiro Sadato, Yukiyasu Kamitani, Yoichi Miyawaki, "Interaction between activity and information representation in multiple brain areas during tactile stimulus discrimination task," NEURO2022, Okinawa Convention Center, Okinawa, June-July 2022.

[11] Kenshu Koiso, Sebastian Dresbach, Christopher J Wiggins, Omer Faruk Gulban, Yoichi Miyawaki, Benedikt A Poser, Renzo Huber, "Towards whole brain layer-fMRI connectivity: methodological advancements for functional layer connectomics," NEURO2022, Okinawa Convention Center, Okinawa, June-July 2022.

[12] Kai Miyazaki, Shun Nirasawa, Kazuaki Akamatsu, Okito Yamashita, Yoichi Miyawaki, "Noise tolerance and information spreading in MEG source estimation using a structured Bayesian model with hierarchical prior," NEURO2022, Okinawa Convention Center, Okinawa, June-July 2022.

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[40] Kazuaki Akamatsu, Yoichi Miyawaki, "Gaze sequence dependency on object category in natural scene," 2016 winter meeting of Vision Society of Japan, Kogakuin University, Tokyo, January 2016.

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[43] Masashi Sato, Okito Yamashita, Masa-aki Sato, Yoichi Miyawaki, "Information leakage of magnetoencephalography source estimation and its effect on neural decoding," The 25th Japanese Neural Network Society, The University of Electro-Communications, Tokyo, September 2015.

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[46] Yusuke Fujiwara, Yoichi Miyawaki, Yukiyasu Kamitani, "Extraction of visual image bases from fMRI activity patterns," The 3rd Brain-Bio-Communication research meeting, Osaka University, November 2009.

[47] Yusuke Fujiwara, Yoichi Miyawaki, Yukiyasu Kamitani, "Automatic extraction of visual image bases from fMRI response," Japan Neuroscience Society 2007, P1-h06, Nagoya, September 2009.

[48] Shigemasu Hiroaki, Yoichi Miyawaki, Yukiyasu Kamitani, Michiteru Kitazaki, "Investigation on processing of depth perception of inter- and intra-objects using neural decoding techniques," The 27th meeting of the Japanese Psychonomic Society, Sendai International Center, December 2008.

[49] Yasushi Naruse, Ayumu Matani, Yoichi Miyawaki, and Masato Okada, "Influence of interaction between columns on electroencephalogram," JNNS 2004, pp.166-167, AIST, September 2008.

[50] Yasushi Naruse, Ayumu Matani, Yoichi Miyawaki, and Masato Okada, "Mechanism of ERS/ERD: A modeling study," The 23rd Japan Magnetism and Biomagnetics Society, vol.21, no.1, pp.62-63, Waseda University, June 2008.

[51] Yoichi Miyawaki, Hajime Uchida, Okito Yamashita, Masa-aki Sato, Yusuke Morito, Hiroki C. Tanabe, Norihiro Sadato, Yukiyasu Kamitani, "Visual image reconstruction from fMRI signals by combination of local image decoders of multiple resolutions," The 47th Annual Conference of Japanese Society for Medical and Biological Engineering, p.76, OS-10-3, Kobe, May 2008.

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[54] Yoichi Miyawaki, Hajime Uchida, Okito Yamashita, Masa-aki Sato, Hiroki C. Tanabe, Norihiro Sadato, Yukiyasu

Kamitani, “Reconstruction of visual images from fMRI signals by combination of multi-resolution localimage decoders,” Japan Neuroscience Society 2007, vol.58, S55, O2P-C12, Yokohama, September 2007.

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[57] Masafumi Oizumi, Yoichi Miyawaki, Masato Okada, “Rate reduction for a Hodgkin-Huxley type network model with a Hebbian connection,” IEICE Workshop of Neurocomputing, vol.106, no.500, pp.37-42, Noboribetsu, January 2007.

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[63] Takashi Shinozaki, Yoichi Miyawaki, Tsunehiro Takeda, “Relationship between reaction times and MEG responses of binocular rivairy,” The 21st Japan Magnetism and Biomagnetics Society, vol.19, no.1, pp198 - 199, Tokyo, June 2006.

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[66] Keiji Miura, Yoichi Miyawaki, Masato Okada, “Correlation analysis of population code for orientation tuning function,” 2004 Annual Meeting of The Physical Society of Japan, Noda, Japan, March 2005.

[67] Yasushi Naruse, Ayumu Matani, Yoichi Miyawaki, Tomoe Hayakawa, Norio Fujimaki, “On Generation of Visual Evoked Responses by Flush and Visual Word Stimuli,” The 19th Symposium of Biological and Physiological Engineering (BPES 2004), Shijonawate Japan, November 2004.

[68] Yoichi Miyawaki and Masato Okada, “Relaxation dynamics of HH system and solvable analog neural network,” 2004 Annual Meeting of The Physical Society of Japan, Aomori, Japan, September 2004.

[69] Yoichi Miyawaki and Masato Okada, “Spike inhibition induced by transcranial magnetic stimulation,” The 14th Japanese Neural Network Society (JNNS 2004), Kyoto, Japan, September 2004.

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[71] Yoichi Miyawaki and Masato Okada, “Mechanisms of spike inhibition in a cortical network induced by transcranial magnetic stimulation,” The 43rd Annual Conference of Japanese Society for Medical and Biological Engineering (MBE 2004), Kanazawa, Japan, May 2004.

[72] Yoichi Miyawaki, “Signal model of latency delay in visual evoked potential by binocular disparity: phase or amplitude?,” The Vision Society of Japan, Winter Meeting, 2004, Tokyo, Japan, January 2004.

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Japan, October 2003.

[74] Yoichi Miyawaki and Masato Okada, “Mechanism of neural interference by TMS: network or single cell?,” The 13th Japanese Neural Network Society (JNNS 2003), Tokyo, Japan, September 2003.

[75] Yoichi Miyawaki and Masato Okada, “Neural mechanisms exhibiting subthreshold suppression induced by transcranial magnetic stimulation,” The 42nd Annual Conference of Japanese Society for Medical and Biological Engineering (MBE 2003), Sapporo, Japan, June 2003.

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[79] Ryusuke Hayashi, Yoichi Miyawaki, Taro Maeda, Susumu Tachi, “A model framework for stereopsis and detection of interocularly unpaired regions,” The 15th Symposium on Biological and Physiological Engineering, Nagoya, Japan, October 2000.

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[81] Yoichi Miyawaki, Ryusuke Hayashi, Taro Maeda, Susumu Tachi, “Visual evoked potentials correlate with figure-ground processes involved in stereopsis in random-dot stereograms,” Vision Society of Japan 2000 Winter Meeting, Tokyo, Japan, January, 2000.

[82] Yoichi Miyawaki, Ryusuke Hayashi, Taro Maeda, Susumu Tachi, “The lower and higher level responses in visual evoked potentials with depth perception--two negative peaks and effects of figure area--,” The 14th Symposium on Biological and Physiological Engineering, Kobe, Japan, October 1999.

[83] Ryusuke Hayashi, Yoichi Miyawaki, Taro Maeda, Susumu Tachi, “Analysis of binocular visual information processing by latency variance of VEPs,” The 14th Symposium on Biological and Physiological Engineering, Kobe, Japan, October 1999.

[84] Ryusuke Hayashi, Yoichi Miyawaki, Taro Maeda, Susumu Tachi, “Analyses of mechanisms of depth perception with random-dot stereograms by VEP measurements,” Vision Society of Japan 1999 Summer Meeting, Kawaguchiko, Japan, July 1999.

[85] Yoichi Miyawaki, Ryusuke Hayashi, Yasuyuki Yanagida, Taro Maeda, Susumu Tachi, “The characteristics of two negative peaks on visual evoked potentials with depth perception and their source localization,” The 13th Symposium on Biological and Physiological Engineering, Kanazawa, Japan, September 1998.

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[87] Yoichi Miyawaki, Ryusuke Hayashi, Yasuyuki Yanagida, Taro Maeda, Susumu Tachi, “The characteristics of two negative peaks on visual evoked potentials with depth perception,” Vision Society of Japan 1998 Summer Meeting, Kawaguchiko, Japan, July 1998.

[88] Yoichi Miyawaki, Taro Maeda, Susumu Tachi, “Study of visual evoked potentials with depth perception,” The 12th Symposium on Biological and Physiological Engineering, Machida, Japan, September, 1997.

[89] Yoichi Miyawaki, Taro Maeda, Susumu Tachi, “Study of visual evoked potentials with depth perception,” IEICE Workshop of ME and Bio Cybernetics, Machida, Japan, March 1997.

[90] Yoichi Miyawaki, Taro Maeda, Susumu Tachi, “Study of visual evoked potentials with depth perception,” Vision Society of Japan 1997 Winter Meeting, Tokyo, Japan, January 1997.

Book review

[1] Yoichi Miyawaki, “Lecture Series of Electronics, Information and Communication Engineers D-24, Brain

Engineering, Tsunehiro Takeda, The Institute of Electronics, Information and Communication Engineers, CORONA PUBLISHING," Journal of The Virtual Reality Society of Japan, vol.8, no.3, p.160, 2003.

Grants

As Principal Investigator

FY2020 - FY2023
Grant-in-Aid for Scientific Research (A),
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2019 - FY2021
Fund for the Promotion of Joint International Research (Fostering Joint International Research (A)),
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2017 - FY2020
JST Strategic Basic Research Programs (PRESTO)

FY2017 - FY2020
Grant-in-Aid for Scientific Research (B),
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2017 - FY2018
Multidisciplinary Computational Anatomy,
Grant-in-Aid for Scientific Research on Innovative Areas,
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2016 - FY2017
Initiative for High-Dimensional Data-Driven Science through Deepening of Sparse Modeling,
Grant-in-Aid for Scientific Research on Innovative Areas,
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2014
Yazaki Memorial Foundation for Science and Technology

FY2014
The Naito Foundation Natural Science Scholarship

FY2014
Strategic Information and Communications R&D Promotion Programme (SCOPE),
Ministry of Internal Affairs and Communications (SOUMU)

FY2014
Narishige Neuroscience Research Foundation

FY2014 - FY2015
Initiative for High-Dimensional Data-Driven Science through Deepening of Sparse Modeling,
Grant-in-Aid for Scientific Research on Innovative Areas,
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2014 - FY2016
Grant-in-Aid for Scientific Research (C),
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2014 - FY2015
KDDI Foundation Research Grant Program

FY2011 - FY2012
Brain and Information Science on Material Perception,
Grant-in-Aid for Scientific Research on Innovative Areas,

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

FY2007 - FY2009
Grants for young investigators of ICT research,
Strategic Information and Communications R&D Promotion Programme (SCOPE),
Ministry of Internal Affairs and Communications (SOUMU)

FY2005 - FY2007
Grants-in-Aid for Young Scientists (B),
Japan Society for the Promotion of Science (JSPS)

As Co-Investigator (project member)
FY2017 - FY2022
JST ERATO Inami JIZAI body project (Principal Investigator: Masahiko Inami)

FY2015 - FY2016
Grants-in-Aid for Challenging Exploratory Research (Principal Investigator: Ganesh Gowrishankar)

Awards

[1] The 9th place of "Like" award for the presentation of the 43rd Annual Meeting of the Japan Neuroscience Society (2020).
[2] Excellent research award of Japanese Neural Network Society (2015).
[3] Best paper award of Japanese Neural Network Society (2014).
[4] ATR excellent research award (2009)
[5] Best paper award of Japanese Neural Network Society (2009)
[6] RIKEN testimonial award (2005)
[7] Research promotion award for young scientists of Japanese Neural Network Society (2004)
[8] RIKEN testimonial award (2004)
[9] Research promotion award for young scientists of Biological and Physiological Engineering Society (2003)
[10] Research promotion award for young scientists of Society of Instrument and Control Engineers (2000)

For supervised students:

[1] Kenshu Koiso, 6th JHBI Early Career Presentation Award (2022)
Awarded presentation: Kenshu Koiso, Kazuaki Akamatsu, Sebastian Dresbach, Christopher J Wiggins, Omer Faruk Gulban, Yoichi Miyawaki, Benedikt A Poser, Renzo Huber, "A whole-brain 7T layer-fMRI dataset: improvement on artifact level and neuroscientific applicability," 6th JHBI meeting, Tamagawa University, Tokyo, Japan, September 2022.

[1] Kenshu Koiso, Domestic Travel Award at NEURO2022 (2022)
Awarded presentation: Kenshu Koiso, Sebastian Dresbach, Christopher J Wiggins, Omer Faruk Gulban, Yoichi Miyawaki, Benedikt A Poser, Renzo Huber, "Towards whole brain layer-fMRI connectivity: methodological advancements for functional layer connectomics," NEURO2022, Okinawa Convention Center, Japan, June-July 2022.

[2] Kenshu Koiso, The best poster award at ISMRM workshop on Ultra-High field MR (2022)
Awarded presentation: Kenshu Koiso, Sebastian Dresbach, Christopher J Wiggins, Omer Faruk Gulban, Yoichi Miyawaki, Benedikt A Poser, Renzo Huber, "Towards whole brain layer-fMRI connectivity: methodological advancements for functional layer connectomics," ISMRM workshop on Ultra-High field MR, Lisbon, Portugal, March 2022.

[3] Kenshu Koiso, Junior Investigator Poster Development Award (2022)
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identified by sparse analysis of ultra-highspeed fMRI signals and susceptibility-weighted imaging at an ultra-high magnetic field," The 44th Annual Meeting of the Japan Neuroscience Society, Kobe, Japan, July 2021

[6] Shota Eto, IEEE CIS Japan Chapter Young Researcher Award（2015）

Awarded presentation: Shota Eto, Hironori Nakatani, Yoichi Miyawaki, "Transition of informative areas in the human brain during haptic shape recognition of real objects," Technical Committee on Neurocomputing, March 4-6, 2019, The University of Electro-Communications, Tokyo, Japan.

[4] Rina Watanabe, VSS2019 Student Travel Award

Awarded presentation: Rina Watanabe, Tomohiro Nishino, Kazuaki Akamatsu, Yoichi Miyawaki, "Gaze attraction toward higher-order image features generated by deep convolutional neural network," Vision Sciences Society 2019, May 17-22, 2019, FL, USA.

[5] Kenichi Inayama, Naoki Ishibashi, Ryo Hidano, TamaColloquim Best Presentation Award (2016)

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[6] Masashi Sato, IEEE CIS Japan Chapter Young Researcher Award（2015）

Awarded presentation: Masashi Sato, Yoichi Miyawaki, "Temporal relationship between object category representation and the level of category abstraction in the human visual cortex," Technical Committee on Neurocomputing, March 17-18, 2014, Tamagawa University, Japan.

[7] Masashi Sato, Excellent research award of Japanese Neural Network Society（2015）

Awarded presentation: Masashi Sato, Yoichi Miyawaki, "Temporal relationship between object category representation and the level of category abstraction in the human visual cortex," Technical Committee on Neurocomputing, March 17-18, 2014, Tamagawa University, Japan.

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[2] "Future of body augmentation by "sixth finger"," Newton, June 2022.

[3] "Moving artificial "sixth finger"!," Kodomo no Kagaku, May 2022.

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[2] "Predicting your dream," page 34, Yomiuri Newspaper, April 5, 2013.

[3] "Decoding dream," page 38, Asahi Newspaper, April 5, 2013.

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Editorial contribution

Ad hoc reviewer:

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[5] Journal of Neuroscience Methods
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[16] VISION
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