

PS3031: Methods in Cognitive Neuroscience

View Online



1.

Introduction to Neuroimaging Methods | MRC-CBSU,
<http://imaging.mrc-cbu.cam.ac.uk/methods/IntroductionNeuroimagingLectures>.

2.

Linux Beginner Tutorials | Linux.org,
<https://www.linux.org/forums/linux-beginner-tutorials.123/>.

3.

Ward, J.: The student's guide to cognitive neuroscience. Psychology Press, Hove (2015).

4.

Gazzaniga, M.S., Ivry, R.B., Mangun, G.R.: Cognitive neuroscience: the biology of the mind. Norton, New York (2014).

5.

Huettel, S.A., Song, A.W., McCarthy, G.: Functional magnetic resonance imaging. Sinauer Associates, Inc. Publishers, Sunderland, Massachusetts (2014).

6.

Bear, M.F., Connors, B.W., Paradiso, M.A.: Neuroscience: exploring the brain. Wolters

Kluwer, Philadelphia (2016).

7.

Kandel, E.R.: Principles of neural science. McGraw-Hill Medical Publishing Division, New York (2013).

8.

McRobbie, D.W.: MRI from picture to proton. Cambridge University Press, Cambridge (2007).

9.

McRobbie, D.W.: MRI From Picture to Proton. Cambridge University Press, Cambridge (2007).

10.

Huettel, S.A., Song, A.W., McCarthy, G.: Functional magnetic resonance imaging. Sinauer Associates, Inc. Publishers, Sunderland, Massachusetts (2014).

11.

Questions and Answers

in MRI | Allen D. Elster, <https://www.mriquestions.com/index.html>.

12.

Introduction to MRI Physics, http://www.simplyphysics.com/page2_1.html.

13.

Currie, S., Hoggard, N., Craven, I.J., Hadjivassiliou, M., Wilkinson, I.D.: Understanding MRI: basic MR physics for physicians. Postgraduate Medical Journal. 89, 209-223 (2013). <https://doi.org/10.1136/postgradmedj-2012-131342>.

14.

The Basics of MRI, <http://www.cis.rit.edu/htbooks/mri/inside.htm>.

15.

MRI online course (Magnetic Resonance Imaging),
<https://www.imaio.com/en/e-Courses/e-MRI>.

16.

Pooley, R.A.: Fundamental Physics of MR Imaging. *RadioGraphics*. 25, 1087–1099 (2005).
<https://doi.org/10.1148/rg.254055027>.

17.

Viallon, M., Cuvinciuc, V., Delattre, B., Merlini, L., Barnaure-Nachbar, I., Toso-Patel, S.,
Becker, M., Lovblad, K.-O., Haller, S.: State-of-the-art MRI techniques in neuroradiology:
principles, pitfalls, and clinical applications. *Neuroradiology*. 57, 441–467 (2015).
<https://doi.org/10.1007/s00234-015-1500-1>.

18.

Ulmer, S., Backens, M., Ahlhelm, F.J.: Basic Principles and Clinical Applications of Magnetic
Resonance Spectroscopy in Neuroradiology,
http://mriquestions.com/uploads/3/4/5/7/34572113/basic_principles_and_clinical_applications_of.99658.pdf. <https://doi.org/10.1097/RCT.0000000000000322>.

19.

Faghihi, R., Zeinali-Rafsanjani, B., Mosleh-Shirazi, M.-A., Saeedi-Moghadam, M., Lotfi, M.,
Jalli, R., Irvani, V.: Magnetic Resonance Spectroscopy and its Clinical Applications: A
Review, [https://www.jmirs.org/article/S1939-8654\(17\)30010-3/pdf](https://www.jmirs.org/article/S1939-8654(17)30010-3/pdf).
<https://doi.org/10.1016/j.jmir.2017.06.004>.

20.

Jezzard, P., Matthews, P.M., Smith, S.M.: Functional MRI: an introduction to methods. Oxford University Press, Oxford (2001).

21.

Poldrack, R.A., Mumford, J.A., Nichols, T.E.: Handbook of Functional MRI Data Analysis. Cambridge University Press, Cambridge (2011).

22.

Jenkinson, M., Chappell, M.: Introduction to neuroimaging analysis. Oxford University Press, New York, NY (2018).

23.

Kandel, E.R.: Principles of neural science. McGraw-Hill Medical Publishing Division, New York (2013).

24.

HUMAN BRAIN FUNCTION 2nd EDITION.

25.

Introduction to fMRI | CUBIC Wiki,
http://www.cubic.rhul.ac.uk/wiki/doku.php?id=fmri:fmri_intro.

26.

HUMAN BRAIN FUNCTION 2nd EDITION.

27.

Fornito, A., Zalesky, A., Bullmore, E.T.: Fundamentals of brain network analysis. Elsevier/Academic Press, Amsterdam (2016).

28.

Roelofs, Ardi.: Goal-referenced selection of verbal action: Modeling attentional control in the Stroop task. *Psychological Review*. 110, 88–125 (2003).

29.

Land, M.F.: Eye movements and the control of actions in everyday life. *Progress in Retinal and Eye Research*. 25, 296–324 (2006). <https://doi.org/10.1016/j.preteyeres.2006.01.002>.

30.

Kirchner, H., Thorpe, S.J.: Ultra-rapid object detection with saccadic eye movements: Visual processing speed revisited. *Vision Research*. 46, 1762–1776 (2006). <https://doi.org/10.1016/j.visres.2005.10.002>.

31.

Bechara, A.: Deciding Advantageously Before Knowing the Advantageous Strategy. *Science*. 275, 1293–1295 (1997). <https://doi.org/10.1126/science.275.5304.1293>.

32.

Wolpert, D.M., Flanagan, J.R.: Motor prediction. *Current Biology*. 11, R729–R732 (2001). [https://doi.org/10.1016/S0960-9822\(01\)00432-8](https://doi.org/10.1016/S0960-9822(01)00432-8).

33.

Aglioti, S., DeSouza, J.F.X., Goodale, M.A.: Size-contrast illusions deceive the eye but not the hand. *Current Biology*. 5, 679–685 (1995). [https://doi.org/10.1016/S0960-9822\(95\)00133-3](https://doi.org/10.1016/S0960-9822(95)00133-3).

34.

De Valois, R.L., De Valois, K.K.: *Spatial Vision*. Oxford University Press, New York (1988).

35.

Psychophysical Methods, <https://www.psych.nyu.edu/pelli/pubs/pelli2010methods.pdf>.

36.

Morgan, M.J.: Biases and Sensitivities in Geometrical Illusions. *Vision Research*. 30, 1793–1810 (1990). [https://doi.org/10.1016/0042-6989\(90\)90160-M](https://doi.org/10.1016/0042-6989(90)90160-M).

37.

Heeger, D.: Signal Detection Theory,
<http://www.cns.nyu.edu/~david/handouts/sdt/sdt.html>.