



注意の心理学重要論文選集・全4巻

The Psychology of Attention

(4-vol. set)

Edited by **Michael I Posner**

Published by **Psychology Pr./Routledge**

2016年12月出版 全4巻/2262ページ 定価 ¥211,890
ISBN 9781138848320

As research in and around the psychology of attention continues to flourish, this new four-volume collection from Routledge meets the need for an authoritative reference work to make sense of a complex body of research. The materials gathered in Volume I include explorations of the limits of attention and early empirical work on methods to probe brain activity. The major works collected in the second volume examine critical theories that allow computer programs to simulate and predict how attention operates, while Volume III is organized around the use of brain imaging, cellular recording, and optogenetics to delineate how the brain carries out the functions of attention. The final volume connects studies of attention to applications, including: connectivity to electronic media; brain-based educational curricula, the economics of decision making, and psychopathologies.

With a full index, together with a comprehensive introduction, newly written by the editor, which places the collected material in its historical and intellectual context, *The Psychology of Attention* is an essential work of reference. The collection will be particularly useful as a database allowing scattered and often fugitive material to be easily located. It will also be welcomed as a crucial tool permitting rapid access to less familiar—and sometimes overlooked—texts. For researchers and advanced students, it is a vital one-stop research and instructional resource.

Table of Contents

Volume. I History of Attention from Ancient to Modern Times

Posner, M.I. Attention: a two and a half millennia guide to its sources

1. Ancient Origins

1. Unknown, Bhagavad Gita (Book 6 Verse 34-35) Selection from Bhagavad Gita Home Study Program Swami Dayanand Saraswati Arsha Vidya Gurukulam Saylorsburg Pa USA
2. Lao-Tzu, The Way of Life, Chapter 16, Lau-Tzu, Tao Te Ching translated by Gia-Fu Feng and Jane English, New York: Random House, Vantage Books 1972

2. Conceptual Foundations

3. Descartes R (1989) The passions of the soul An English translation of Les Passion de l'ame Article 24-42 translated by Stephen Voss pp 32-41 Indianapolis/Cambridge Hackett Publishing Co.
4. Lewes, G.H. (1859) The physiology of common life, Volume II, 37-41
5. James, W. (1890). The Principles of Psychology. New York: Henry Holt, Vol. 1, pp. 402-458.(402-425)
6. Titchener, E.B. (1908) Lectures on the Elementary Psychology of Feeling and Attention, New York: Macmillan Co. Lecture V. Attention as Sensory Clearness pp161-206
7. Ribot Th (1898) The psychology of Attention. The Psychology of Attention Chicago: Open Court Publishing pp 105-114

3. Neuropsychology

8. Moruzzi, G., & Magoun, H.W., (1949) Brain stem reticular formation and activation of the EEG. EEG Clin. Neurophysiol.1: 455-473.
9. Hebb DO. 1949. Organization of Behavior. New York: Wiley. Pp 3-11
10. McCallum, W.C. & Walter, W.G. (1968) Effect of attention and distraction on contingent negative variation in normal and neurotic subjects. Electroencephalography and clinical neurophysiology. 25/4, 319-329
11. Luria, A.R. (1973) The Working Brain: an introduction to neuropsychology, New York: Basic Books Ch. 10-256-279

4. Information Processing

12. Shannon, C.E. & Weaver, W. (1949) The Mathematical Theory of Communication Urbana Ill: University of Illinois Press pp31-35
13. Craik, K J. W. (1948). "Theory of the human operator in control systems. II: Man as an element in a control system". British Journal of Psychology. General Section 38 (3): 142-148. doi:10.1111/j.2044-8295.1948.tb01149.x

14. Hick, WE (1948). On the rate of gain of information. *Quarterly Journal of Experimental Psychology* 4:11-26
15. Broadbent, D.E. (1958) *Perception and Communication*. London: Pergamon Ch. 12 pp 297-299

5. Empirical Methods

16. Hamilton, W. (1859). *Lectures on metaphysics*. Vol 1 New York: Sheldon and Co. Pp 175-178
17. Jevons, W. S. (1871). Power of numerical discrimination. *Nature*, 3, 2 281-282.
18. Donders, F.C. (1869). On the speed of mental processes. In W. G. Koster (Ed.), *Attention and Performance II*. *Acta Psychologica*, 30, 412-431. (Original work published in 1868.)
19. Helmholtz, H. von (1896/1989). *Physiological Optics* (1896 - 2nd German Edition, translated by M. Mackeben, from Nakayama and Mackeben, *Vision Research* 29:11, 1631 - 1647, 1989)
20. Jersild, A.T. (1927) Mental set and shifting. *Archives of Psychology* #89 Introduction pp1-11
21. Gibson, J.J. (1941). A critical review of the concept of set in contemporary experimental psychology, *Psychological Bulletin* 38, 781-815
22. Bills, A.G. (1931) Principles of mental fatigue, *American Journal of Psychology* 43/2 pp 230-245
23. Telford, C. W. (1931). The refractory phase of voluntary and associative response. *Journal of Experimental Psychology*, 14, 1-35.
24. Stroop, J.Ridley (1935) Studies of interference in serial verbal reactions, *Journal of Experimental Psychology* 18/6, 643-662
25. Mackworth, N. H. (1948). The breakdown of vigilance during prolonged visual search. *Quarterly Journal of Experimental Psychology*, 1, pp 6-21
26. Cherry, E.C. Some experiments on the recognition of speech, with one and two ears. *Journal of the Acoustical Society*, 25:975-979
27. Leonard, J. A. (1953). Partial advance information in a choice reaction time task *British Journal of Psychology*, 49(2), 89-96.

Volume. II- Empirical Studies of Attention

6. Processing Stages and Effort

28. Kahneman, D., 1973. *Attention and Effort*. Prentice Hall, Englewood Cliffs, pp 13-49
29. Ostry, D., Moray, N., & Marks, G. (1976) Attention, practice and semantic targets, *Quarterly Journal of Experimental Psychology*, HPP 2, 326-336
30. Pashler, H. (1984). Processing stages in overlapping tasks: Evidence for a central bottleneck. *Journal of Experimental Psychology: Human Perception and Performance*, 1910, 358-377

7. Orienting of Attention

Behavioral methods

31. Sperling G. (1960) The information available in brief visual presentations, *Psychological Monographs* 74 (11, whole no. 498 1-28
32. Bouma, H. (1973). Visual interference in the parafoveal recognition of initial and 15 final letters of words. *Vision Research* 13, 767-782
33. Duncan, J. (1980). The locus of interference in the perception of simultaneous stimuli. *Psychological Review*, 87, 272-300
34. Posner, M.I., 1980. Orienting of attention. The 7th Sir F.C. Bartlett Lecture. *Quarterly Journal of Experimental Psychology* .32, 3-25.
35. Posner, M.I. & Cohen, Y. (1984). Components of attention. In H. Bouma and D. Bowhuis (eds.), *Attention and Performance X*. Hillsdale N.J.:Lawrence Erlbaum Associates, (pp. 531-556).
36. Rensink, R.A., O'Regan, J.K., Clark, J.J., 1997. To see or not to see: the need for attention to perceive changes in scenes. *Psychology Science* 8, 368-373.
37. Yeshurun, Y., & Carrasco, M. (1998). Attention improves or impairs visual performance by enhancing spatial resolution. *Nature*, 396, 72-75.

Imaging Studies

38. Fan, J., McCandliss, B.D., Fossella, J., Flombaum, J.I., Posner, M.I., 2005. The activation of attentional networks. *NeuroImage* 26, 471-479.
39. Dosenbach, N.U.F., Fair, D.A., Miezin, F.M., Cohen, A.L., Wenger, K.K.R., Dosenbach, A.T., Fox, M.D., Snyder, A.Z., Vincent, J.L., Raichle, M.E., Schlaggar, B.L., Petersen, S.E., 2007. Distinct brain networks for adaptive and stable task control in humans. *Proceedings of the National Academy of Sciences*. U. S. A. 104, 1073-1978.
40. Corbetta, M., Shulman, G.L., 2002. Control of goal-directed and stimulus-driven attention in the brain. *Nature: Neuroscience Review*. 3, 201-215.
41. Crottaz-Herbette S, Menon V. 2006. Where and when the anterior cingulate cortex modulates attentional response: combined fMRI and ERP evidence. *Journal of Cognitive Neuroscience*. 18:766-80
42. Heinze, H.J., Mangun, G.R., Burchert, W., Hinrichs, H., Scholtz, M., Muntel, T. F., Gosel, A., Scherg, M., Johannes, S., Hundeshagen, H., Gazzaniga, M.S., and Hillyard, S.A. (1994). Combined spatial and temporal imaging of brain activity during visual selective attention in humans. *Nature*, 372:543-546.
43. Hillyard, S.A., Hink, R.F., Schwent, V.L. & Picton, T.W. (1973) Electrical signs of selective attention in the human brain. *Science* 182 177-180
44. Womelsdorf, T., Schoffelen, J.M., Oostenveld, R., Singer, W., Desimone, R., Engel, A.K., Fries, P., 2007. Modulation of neuronal interactions through neuronal synchronization. *Science* 316, 1609-1612
45. Saalman, Y.B., Pigarev, I.N., & Vidyasagar, T.R. (2007) Neural mechanisms of visual attention: how top down feedback highlights relevant locations. *Science* 316, 1612-1615
Cellular Studies
46. Mountcastle, V.M. (1978). The world around us: Neural command functions for selective attention. *Neuroscience Research Progress Bulletin*, 14(Suppl):1-47.
47. Wurtz, R.H., Goldberg, E., and Robinson, D.L. (1982). Brain mechanisms of visual attention, *Scientific American* 246/6 124-134
48. Moran, J & Desimone, R. (1985) Selective Attention Gates Visual Processing in the Extrastriate Cortex *Science*, 229, 4715, 782-784.
49. Thompson, K. G., Biscoe, K. L. & Sato, T. R. (2005). Neuronal basis of covert spatial attention in the frontaley

fields. *Journal of Neuroscience*, 25, 9479–9487.

50. Schafer RJ, Moore T. 2007. Attention governs action in the primate frontal eye field. *Neuron* 56:541–51

8. Executive Network

51. Pardo, J., Pardo, P.J., Janer, K. W., & Raichle, M.E. (1990) The anterior cingulate cortex mediates processing selection in the stroop attentional conflict paradigm, *Proceedings of the National Academy of Sciences* 87, 256-259

52. Corbetta, M., Miezin, F.M., Dobmeyer, S., Shulman, G.L., and Petersen, S.E. (1991). Selective and divided attention during visual discriminations of shape, color, and speed: Functional anatomy by positron emission tomography. *Journal of Neuroscience*, 11:2383-2402.

53. Duncan, J., Seitz, R.J., Kolodny, J., or, D., Herzog, H., Ahmed, A., Newell, F.N., & Emslie, H. (2000) A neural basis for general intelligence. *Science* 289 457-460

54. Christoff, K., Gordon, A.M., Smallwood, J., Smith, R., & Schooler, J.W. (2009) Experience sampling during fMRI reveals default network and executive system contributions to mind wandering. *Proceedings of the National Academy of Sciences* 106/21 8719-8724.

9. Alerting

55. Coull JT, Frith CD, Buchel C, Nobre AC. 2000. Orienting attention in time: behavioural and neuroanatomical distinction between exogenous and endogenous shifts. *Neuropsychologia* 38:808–19

56. Sturm W, & Willmes K. 2001. On the functional neuroanatomy of intrinsic and phasic alertness. *Neuroimage* 14:S76–84

Volume. III- Theories of Attention

10. Behavioral- Computational Models

Visual Search

57. Treisman, A.M. (1988) Features and Objects: The Fourteenth Bartlett, Memorial Lecture Quarterly Journal of Experimental Psychology. 40A(2) 201-237

58. Wolfe, J.M. (1994) A revised model of visual search, *Guided Search 2.0 Psychonomic Bulletin & Review* 1 (2), 202-238

58. Wolfe, J.M. (1994) A revised model of visual search, *Guided Search 2.0 Psychonomic Bulletin & Review* 1 (2), 202-2

59. Xtti, L & Koch, C (2001) Computational Modelling of Visual Attention, *Nature Reviews Neuroscience* 2, 194-203

Executive Attention

60. Treisman, A.M., 1969. Strategies and models of selective attention. *Psychology Review*. 76,282–299.

61. Navon, D. Gopher, D. (1979). "On the economy of the human processing system

Psychological Review, 86, 214-253.

62. Meyer DE, & Kieras DE. (1997) A computational theory of executive cognitive processes and multiple-task performance: Part 1. Basic mechanisms. *Psychology Review*. 104(1):3-65. Pages 3-18

63. Bundesen, C. (1990). A theory of visual attention. *Psychological Review*, 97(4), 523-547

64. Dehaene, S., Sergent, C. and Changeux, J.-P. (2003). A neuronal network model linking subjective reports and objective physiological data during conscious perception. *Proc. National Academy of Science (USA)* 100. 14: 8520-8525.

11. Neuronal Models

65. Anderson, C.H., Van Essen, D.C., and Olshausen, B.A. (2005) Directed visual attention and the dynamic control of information flow. In: *Neurobiology of Attention* (eds. L. Itti, G. Rees, J. Tsotsos) Elsevier, San Diego, pp. 11-16

66. Cohen MR and Maunsell JHR (2009). Attention improves performance primarily by reducing interneuronal correlations. *Nature Neuroscience*, 12(12):1594-1600

67. Astin-Jones, G. & Cohen, J.D. (2005) An integrative theory of locus-coeruleus norepinephrine function: adaptive gain and optimal performance, *Annual Review of Neuroscience* 28, 403-450

12. Neural System Models

68. Desimone, R. & Duncan, J. (1995) Neural mechanisms of selective visual attention. *Annual Review of Neuroscience* 18:192-222

69. Formisano, S & Goebel, R (2003) Tracking cognitive processes with functional MRI mental chronometry, *Current Opinion in Neurobiology* 13:174–181

70. Rizzolatti, G., Riggio, L., Dascola, I., & Umiltà, C. (1987). Reorienting attention across the horizontal and vertical meridians: Evidence in favor of the premotor theory of attention. *Neuropsychologia*, 25, 31–40.

13. Connectionist Models

71. Rumelhart, De & McClelland, JL an Interactive Activation Model of Context Effects in Letter Perception. 2. The Contextual Enhancement Effect and some Tests and Extensions of the Model, *Psychological Review* 89/ 1 60-94

72. Cohen JD Dunbar K, & McClelland JL. On the control of automatic processes: a parallel distributed processing account of the Stroop effect, *Psychology Review*. 1990 Jul; 97(3):332-61.

73. Sigman, M & Dehaene, S (2005) Parsing a cognitive task: a characterization of the mind's bottleneck, *PLoS biology* 2/8 e37

74. Botvinick, M.M., Braver, T.S., Barch, D.M., Carter, C.S. and Cohen, J.D. (2001). Conflict monitoring and cognitive control. *Psychological Review*, 108:624-652

Volume. IV- Applications of Attention

14. Development

75. Columbo, J. (2001) The development of attention in infancy, *Annual Review of Psychology* 52:37. 337-367

76. Haith, M. M., Hazan, C., & Goodman, G. S. (1988). Expectation and anticipation of dynamic visual events by 3.5-month-old babies. *Child Development*, 59, 467- 479

77. Fjell, AMK, Walhovd, KBT, Bro, Twn et al., "Multi modal imaging of the self-regulating brain," *Proceedings of the National Academy of Sciences of the United States of America*, vol. 109, no.

48, pp. 19620–19625, 2012

78. Fair, D.A., Dosenbach, N.U.F., Church, J.A., Cohen, A.L., Brahmbhatt, S., Miezin, F.M., et al., 2007. Development of distinct control networks through segregation and integration. *Proceedings of the National Academy of Sciences U. S. A.* 104 (33), 13507–13512.

15. Consciousness

79. Koch, C. & Tsuchiya, N. (2007) Attention and consciousness: two distinct brain processes.

Trends in Cognitive Sciences Journal 11, 16-22

80. Meyer, D.E. & Schvaneveldt, R.W. (1976) Meaning, memory structure and mental processes, Science 192 no 4234, 27-33

81. Posner, M.I. & Snyder, C.R.R. (1975) Attention and Cognitive Control. In R. Solso (ed) Information Processing and Cognition: The Loyola Symposium Hillsdale NJ: Lawrence Erlbaum Assoc. Ch. 355-85

82. Neely, J.H. (1977) Semantic priming and retrieval from lexical memory: roles of inhibition less spreading activation and limited capacity attention. Journal of Experimental Psychology: General 106:226-254

82. Broadbent, D.E., Cooper, P.F., FitzGerald, P., & Parkes, K.R. (1982) The cognitive failures questionnaire (CFQ) and its correlates, British Journal of Clinical Psychology 21/1, 1-16

83. Roca, M. Parr A., Thompson, R., Woolgar, A., Torralva T., Nagui, A. Manes, F., & Duncan, J. (2010) Executive function and fluid intelligence after frontal lobe lesions Brain. 133(1): 234-247.

16. Human Performance

84. Broadbent, D.E., Cooper, P.F., FitzGerald, P., & Parkes, K.R. (1982). The cognitive failures questionnaire (CFQ) and its correlates, British Journal of Clinical Psychology 21/1, 1-16

85. North, R.A. and Gopher, D. (1976) "Measures of attention as predictors of flight performance", Human Factors, 18, 1-14.

86. Parasuraman, R., Greenwood, P.M., Kumar, R., & Fossella, J. (2005). Beyond heritability: Neurotransmitter genes differentially modulate visuospatial attention, Psychological Science 16/3 200-207

17. Training

87. Green, C. S., & Bavelier, D. (2006). Effect of Action Video Games on the Spatial Distribution Of Visuospatial Attention. Journal of Experimental Psychology: Human Perception and Performance, 32 (6), 1465-1478.

88. Terry, P., Samuels, S.J. & La Berge, D. (1976) The effects of letter degradation and letter spacing on word recognition. Journal of verbal learning and verbal behavior. 15, 577-585

89. Tang, Y. & Posner, M.I. (2009) Attention training and Attention State Training. Trends in Cognitive Science 13, 222-227

18. Pathology

90. Corbetta, M. & Shulman, G.L. (2011) Spatial neglect and attention networks. Annual Review of Neuroscience 34: 569-599

91. Posner, M.I., Walker, J.A., Friedrich, F. J. & Rafal, R.D. (1984). Effects of parietal lobe injury on covert orienting of visual attention. Journal of Neuroscience, 4: 1863-1874.

92. Courchesne, E., Townsend, J., Akshoomoff, N.A., Saitoh, O. Yeung-Courchesne, R., Lincoln, A.J. James, H.E. Haas, R.H., Schreibman, L. & Lau, L (1994) Impairment in Shifting Attention in Autistic and Cerebellar Patients, Behavioral Neuroscience 108, No. 5, 848-865

93. Halperin, J.M. and K.P. Schulz. (2006). Revisiting the role of the prefrontal cortex in the pathophysiology of attention-deficit/hyperactivity disorder. Psychological Bulletin, 132:560-581. 52-59

94. Swanson J, Oosterlaan J, Murias M, Schuck S, Flodman P, Spence MA, Wasdell M, Ding Y, Chi H, Smith M, Mann M, Carlson C, Kennedy MJ, Sergeant J, Leung P, Zhang Y, Sadeh A, Chen C, Moyzis R, & Posner MI. (2000). Attention deficit/hyperactivity disorder children with a 7-repeat allele of the dopamine receptor D4 gene have extreme behavior but normal performance on critical neuropsychological tests of attention. Proceedings of National Academy of Sciences, 97: 4754-4759.

95. Westerberg, H. & Klingberg, T. (2007) Changes in cortical activity after training of working memory – a single subject analysis. Physiology and Behavior 92 /1-2 186-192

96. Nuechterlein, K. M., (1977) Reaction time and attention in schizophrenia: critical evaluation of the data and theories. Schizophrenia Bulletin 3:373-428

97. Silbersweig D., Clarkin JF, Goldstein M., Kernberg OF., Tuescher O., Levy KN, Brendel, G Pan H Beutel M., Pavony ME., Epstein J. Lenzenweger MF., Thomas KM., Posner MI, & Stern E (2007) Failure of frontolimbic inhibitory function in the context of negative emotion in borderline personality disorder, American Journal of Psychiatry 164: 1832-41.

98. Zeier, J.D., Maxwell, J.S., and Newman, J.P. (2009). Attention moderates the processing of inhibitory information in primary psychopathy. Journal of Abnormal Psychology, 118:554-563.

関連書ご案内

【注意の神経心理学】

Cohen, R.A.

The Neuropsychology of Attention, 2nd Edition.. (Series: Critical Issues in Neuropsychology) 2014, 978pp., Hardback (Springer) ISBN 9780387726380 **Eur 239.00**

It has been 15 years since the original publication of Neuropsychology of Attention. At the time of its publication, attention was a construct that had long been of theoretical interest in the field of psychology and was receiving increased

research by cognitive scientists. Yet, attention was typically viewed as a nuisance variable; a factor that needed to be accounted for when assessing brain function, but of limited importance in its own right. There is a need for a new edition of this book within Neuropsychology to present an updated and integrated review of what is known about attention, the disorders that affect it, and approaches to its clinical assessment and treatment. Such a book will provide perspectives for experimental neuropsychological study of attention and also provide clinicians with insights on how to approach this neuropsychological domain.

【注意ハンドブック】

Fawcett, J.M. et al. (eds)

The Handbook of Attention. Jan 2016, 704pp., Hardback (The MIT Pr.) ISBN 9780272029698 **\$69.00**

Laboratory research on human attention has often been conducted under conditions that bear little resemblance to the complexity of our everyday lives. Although this research has yielded interesting discoveries, few scholars have truly connected these findings to natural experiences. This book bridges the gap between "laboratory and life" by bringing together cutting-edge research using traditional methodologies with research that focuses on attention in everyday contexts. It offers definitive reviews by both established and rising research stars on foundational topics such as visual attention and cognitive control, underrepresented domains such as auditory and temporal attention, and emerging areas of investigation such as mind wandering and embodied attention.

【ゲシュタルト心理学を超える知覚科学】

Geremek, A. et al. (eds)

Perception Beyond Gestalt: Progress in vision research. March 2016, 224pp., Paperback (Psychology Pr.) ISBN 9781138669802 **£ 34.99**

CONTENTS: Perception Beyond Gestalt: Introductory Remarks Geremek, Greenlee and Magnussen Part I: Gestalt and Perceptual Organization How much of Gestalt Theory has Survived a Century of Neuroscience? Wagemans Perceptive Fields and Receptive Fields Thomas Spatiotemporal Unity of Perception: Given or Derived? Breitmeyer What is a Perceptual Object? Beyond the Gestalt Theory of Perceptual Organization Pinna Self-organizing Properties of the Visual Field: Gestalt Forces in Action Harvey Jr and Schmidt Part II: Attention, Aftereffects and Illusions Attention, Grouping, and Non-Retinitopic Representations Ögmen and Herzog Probing Human Vision with Spatial Adaptation Greenlee and Magnussen From Hermann's Grid to Spillmann's Weaves Hamburger, Dixon and Shapiro Motion Illusions as a Psychophysical Tool to Investigate the Visual System Gori and Stubs Part III: Color Vision and Art Perception In Search of Neurophysiological Correlates to Color Perception Valberg Color and Figure-Ground: From Signals to Qualia Dresp-Langley and Reeves Chromatic Assimilation in Visual Art and Perception Devink, Pinna and Werner The Phenomenon of 'Colored Shadows' Kallman, Schramme and Neumeier (Hardback Aug 2013, ISBN 9780415658010 **£ 95.00**)

【認知 - 神経学的アプローチ】

Glass, A.L.

Cognition: A Neuroscience Approach. Feb 2016, Hardback (Cambridge U.P.) ISBN 9781107088313 **\$99.99**

CONTENTS: 1. The evolution of the pre-cognitive control of action. 2. The evolution of cognition. 3. Motor action and motor skills. 4. Mental attention: attention and consciousness. 5. Serial Learning, perceptual skills, and talent. 6. Vision. 7. Semantic memory and language. 8. Infant learning and language learning. 9. Categorization and causal learning. 10. Semantic learning. 11. Recognition. 12. Recall. 13. Autobiographical memory. 14. Reasoning. 15. Problem solving and intelligence.

【知覚の心理学】

Grondin, S.

Psychology of Perception. May 2016, 134pp., Hardback (Springer) ISBN 9783319317892 **Eur 76.99**

CONTENTS: Chapter 1. Psychophysics.- Chapter 2. Physi-cal

and Biological Bases of Hearing.- 3.Hear-ing.- Chapter 4.Biological Bases of Visual Perception.- Chapter 5.Colour Vision.- Chapter 6.Form Perception.- Chapter 7.Depth Perception.- Chapter 8.Attention.- Appendix A: ROC CURVES.- Appendix B: FECHNER'S LAW.- Appendix C: THE NERVOUS SYSTEM.

【応用認知心理学入門・第2版】

Groome, D. & M. Eysenck

An Introduction to Applied Cognitive Psychology, 2nd Edition. March 2016, 410pp., Hardback (Psychology Pr.) ISBN 9781138840126 **£ 110.00**

(Paperback ISBN 9781138840133 **£ 34.99**)

An Introduction to Applied Cognitive Psychology offers an accessible review of recent research in the application of cognitive methods, theories, and models. Using real-world scenarios and engaging everyday examples this book offers clear explanations of how the findings of cognitive psychologists have been put to use. The book explores all of the major areas of cognitive psychology, including attention, perception, memory, thinking and decision making, as well as some of the factors that affect cognitive processes, such as drugs and biological cycles.

【社会的神経科学 - 社会心理学への生物学的アプローチ】

Harmon-Jones, E. & M. Inzlicht (eds)

Social Neuroscience: Biological Approaches to Social Psychology. March 2016, 286pp., Hardback (Psychology Pr.) ISBN 9781848725232 **£ 100.00**

(Paperback ISBN 9781848725249 **£ 39.99**)

Social Neuroscience provides an updated and critically important survey of contemporary social neuroscience research. In response to recent advances in the field, this book speaks to the various ways that basic biological functions shape and underlie social behavior. The book also shows how an understanding of neuroscience, physiology, genetics, and endocrinology can foster a fuller, more consistent understanding of social behavior and of the person. These collected chapters cover traditional and contemporary social psychology topics that have received conceptual and empirical attention from social neuroscience approaches. While the focus of the chapters is demonstrating how social neuroscience methods contribute to understanding social psychological topics, they also cover a wide range of social neuroscience methods, including hormones, functional magnetic resonance imaging, electroencephalography, event-related brain potentials, cardiovascular responses, and genetics.

【注意、知覚、行為 - G.ハンフリーズ論文集】

Humphreys, G.

Attention, Perception and Action: Selected Works of Glyn Humphreys. May 2016, 366pp., Hardback (Routledge) ISBN 9781138889538 **£ 120.00**

Glyn Humphreys is an internationally renowned cognitive neuropsychologist with research interests covering object recognition and its disorders, visual word recognition, object and spatial attention, the effects of action on cognition, and social cognition. Within the field of Psychology he has won a number of prestigious awards, including the Spearman Medal, the President's Award of the British Psychological Society, and the Donald Broadbent Prize from the European Society for

Cognitive Psychology. This collection reflects the different directions in his work and approaches which have been adopted. It will enable the reader to trace key developments in cognitive neuropsychology in a period of rapid change over the last thirty years. A newly written introduction contextualises the selection in relation to changes in the field during this time. Attention, Perception and Action will be invaluable reading for students and researchers in visual cognition, cognitive neuropsychology and vision neuroscience.

【注意とパフォーマンス・第 25 巻】

Jolicoeur, P. et al. (eds)

Mechanisms of Sensory Working Memory: Attention and Performance XXV. July 2016, 312pp., Hardback (Elsevier) ISBN 9780128110423 **£130.00**

Mechanisms of Sensory Working Memory: Attention and Performance XXV provides an update on research surrounding the memory processes that are crucial for many facets of cognitive processing and experience, with new coverage of emerging areas of study, including a new understanding of working memory for features of stimuli devoid of verbal, phonological, or long-term memory content, such as memory for simple visual features (e.g., texture or color), simple auditory features (e.g., pitch), or simple tactile features (e.g., vibration frequency), now called sensory memory to distinguish from verbal memory.

【認知機能強化】

Kantak, K.M. & J. Wettstein (eds)

Cognitive Enhancement. (Handbook of Experimental Pharmacology) 2015, 470pp., Hardback (Springer) ISBN 9783319165219 **Eur 309.00**

This book highlights the behavioral and neurobiological issues relevant for drug development, reviews evidence for an innovative approach for drug discovery and presents perspectives on multiple special topics ranging from therapeutic drug use in children, emerging technologies and non-pharmacological approaches to cognitive enhancement.

【消費者行動への価値の影響】

Kosteljik, E.

The Influence of Values on Consumer Behaviour: The value compass. Aug 2016, 200pp., Hardback (Routledge) ISBN 9781138676473 **£ 95.00**

Substantial progress has been made in the conceptualization of values within psychology. The importance of values is also acknowledged in marketing, and companies use values to describe the core associations of their brand. Yet despite this, the values concept has received limited attention in marketing theory. The Influence of Values on Consumer Behaviour aims to bridge the gap between the conceptual progress of values in psychology, and the current practice in marketing and branding literature. It proposes the 'Value Compass', a comprehensive value system that is cross-culturally applicable to consumer behaviour and brand choice.

【人間の注意からコンピュータの注意まで】

Mancas, M. et al. (eds)

From Human Attention to Computational Attention: A Multidisciplinary Approach. (Springer Series in Cognitive and Neural Systems)

June 2016, 463pp., Hardback (Springer) ISBN 9781493934331 **Eur 139.99**

This both accessible and exhaustive book will help to improve modeling of attention and to inspire innovations in industry. It introduces the study of attention and focuses on attention modeling, addressing such themes as saliency models, signal detection and different types of signals, as well as real-life applications. The book is truly multi-disciplinary, collating work from psychology, neuroscience, engineering and computer science, amongst other disciplines.

What is attention? We all pay attention every single moment of our lives. Attention is how the brain selects and prioritizes information. The study of attention has become incredibly complex and divided: this timely volume assists the reader by drawing together work on the computational aspects of attention from across the disciplines. Those working in the field as engineers will benefit from this book's introduction to the psychological and biological approaches to attention, and neuroscientists can learn about engineering work on attention. The work features practical reviews and chapters that are quick and easy to read, as well as chapters which present deeper, more complex knowledge. Everyone whose work relates to human perception, to image, audio and video processing will find something of value in this book, from students to researchers and those in industry.

【言語処理における注意と視覚】

Mishra, R.K. et al. (eds)

Attention and Vision in Language Processing. Aug 2015, 213pp., Hardback (Springer) ISBN 978813222426 **Eur 139.99**

This volume provides a comprehensive overview of the nature of attentional and visual processes involved in language comprehension. Key concerns include how linguistic and non-linguistic processes jointly determine language comprehension and production and how the linguistic system interfaces with perceptual systems and attention.

Language scientists have traditionally considered language in isolation from other cognitive and perceptual systems such as attention, vision and memory. In recent years, however, it has become increasingly clear that language comprehension must be studied within interaction contexts. The study of multimodal interactions and attentional processes during language processing has thus become an important theoretical focus that guides many research programs in psycholinguistics and related fields.

【自閉症と共同注意】

Mundy, P.C.

Autism and Joint Attention: Development, Neuroscience, and Clinical Fundamentals. March 2016, 350pp., Hardback (Guilford) ISBN 9781462525096 **\$50.00**

Peter C. Mundy shows that no other symptom dimension is more strongly linked to early identification and treatment of autism spectrum disorder (ASD). He synthesizes a wealth of knowledge on how joint attention develops, its neurocognitive underpinnings, and how it helps to explain the learning, language, and social-cognitive features of ASD across the lifespan. Clinical implications are explored, including reviews of cutting-edge diagnostic methods and targeted treatment approaches.

【オックスフォード注意ハンドブック】

Nobre, K. & S. Kastner

The Oxford Handbook of Attention. (Oxford Library of Psychology) March 2014, 1242pp.,

Hardback (Oxford U.P.) ISBN 9780199675111
\$150.00

During the last three decades, there have been enormous advances in our understanding of the neural mechanisms of selective attention at the network as well as the cellular level. The Oxford Handbook of Attention brings together the different research areas that constitute contemporary attention research into one comprehensive and authoritative volume. In 40 chapters, it covers the most important aspects of attention research from the areas of cognitive psychology, neuropsychology, human and animal neuroscience, computational modelling, and philosophy. The book is divided into 4 main sections. Following an introduction from Michael Posner, the book starts by looking at theoretical models of attention. The next two sections are dedicated to spatial attention and non-spatial attention respectively. Within section 4, the authors consider the interactions between attention and other psychological domains. The last two sections focus on attention-related disorders, and finally, on computational models of attention. Aimed at both scholars and students, the Oxford Handbook of Attention provides a concise and state-of-the-art review of the current literature in this field.

【心の構造化 - 注意の本質と意識の形成】

Sebastian Watzl

Structuring Mind : The Nature of Attention and how it Shapes Consciousness. Mar 2017, 352pp., Hardback (Oxford U.P.) ISBN 9780199658428 **\$70.00**

What is attention? How does attention shape consciousness? In an approach that engages with foundational topics in the philosophy of mind, the theory of action, psychology, and the neurosciences this book provides a unified and comprehensive answer to both questions. Sebastian Watzl shows that attention is a central structural feature of the mind. The first half of the book provides an account of the nature of attention. Attention is prioritizing, it consists in regulating priority structures. Attention is not another element of the mind, but constituted by structures that organize, integrate, and coordinate the parts of our mind. Attention thus integrates the perceptual and intellectual, the cognitive and motivational, and the epistemic and practical. The second half of the book concerns the relationship between attention and consciousness. Watzl argues that attentional structure shapes consciousness into what is central and what is peripheral.

【認知トレーニング】

Strobach, T. & J. Karbach

Cognitive Training: An Overview of Features and Applications. Sept 2016, 254pp., Hardback (Springer) ISBN 9783319426600 **Eur 89.99**

CONTENTS: Chapter 1. Introduction.- Part I: Basic Concepts and Methodology.- Chapter 2. Methods and Designs.- Chapter 3. Theoretical Models of Training and Transfer Effects.- Part II: Plasticity in Different Age Groups.- Chapter 4. Childhood and Adolescence.- Chapter 5. Adult Lifespan.- Part III: Plasticity of Different Cognitive Domains.- Chapter 6. Working Memory.- Chapter 7. Episodic Memory.- Chapter 8. Prospective Memory.- Chapter 9. Executive Functions.- Part IV: Multidomain Trainings.- Chapter 10. Action Video-Game Training and Its Effects on Perception and Attentional Control.- Chapter 11. Video-Game Training and Effects on Executive Functions.- Chapter 12. Mindfulness and Meditation Training.- Chapter 13. Music Training.- Chapter 14. Physical Training.- Part V: Cognitive Training in Applied Contexts.- Chapter 15. Individual Difference and Motivational Effects.- Chapter 16. Educational Application of Working-Memory Training.- Chapter 17. Changes of Electrical Brain Activity After Cognitive Training.- Chapter 18. Cognitive Training in Mild Cognitive Impairment.- Part VI: Outlook.- Chapter 19. The Future of Cognitive Training.

**BOOKMAN**

有限会社 **ブックマン**

〒113-0033

東京都文京区本郷3丁目4-8-501

Tel 03-5684-0561 Fax 03-5684-0562

E-Mail : sales@e-bookman.co.jp

ホームページ : <http://e-bookman.co.jp/>

ご注文・お問い合わせは下記へお申し
込み下さい。

(有)ブックマン

関西・中部・東海統括事務所

Tel 052-740-1829

Fax 052-782-4771

chubu@e-bookman.co.jp / kansai@e-bookman.co.jp

広島海外株

Tel 082-236-3522

Fax 082-236-3530

books@dear.ne.jp

福岡海外株

Tel 092-741-2685

Fax 092-741-8418

fkaigai@lime.ocn.ne.jp

