Reading Lists for PhD Qualifying Exam of Cognitive Science, METU

Track-Independent Reading


Language & Computing

  - All chapters (370 pages)

  - Part 1:
    - Ch. 1 Introduction, 1-16.
    - Ch. 2 Regular Expressions and automata, 21-51.
    - Ch. 3 Morphology and finite state transducers, 57-89.
    - Ch. 4 Computational phonology and text-to-speech, 91-136.
  - Part 2
    - Ch. 12 Lexicalized and probabilistic parsing, 443-471.
    - Ch. 13 Language & complexity, 473-494.
  - Part 3:
    - Ch. 14 Representing meaning, 497-539.
    - Ch. 16 Lexical semantics, 587-623.
Computing & Psychology

  - Ch. 1 The philosophy and the approach, 8-40.
  - Ch. 7 In defense of the approach, 335-361.
  - Afterword by Tomaso Poggio, 362-367.
  - Ch. 1 Introduction, 1-33.
  - Ch. 2 Intelligent agents, 34-63.
  - Ch. 3 Solving problems by searching, 64-119.
  - Ch. 4 Beyond classical search, 120-160.
  - Ch. 5 Adversarial search, 161-201.
  - Ch. 7 Logical agents, 234-284.
  - Ch. 8 First-order logic, 285-321.
  - Ch. 10 Classical planning, 366-400.
  - Ch. 11 Planning and acting in the real world, 401-436.
  - Ch. 12 Knowledge representation, 437-479.
  - Ch. 1 Introduction to computational cognitive modeling. R. Sun, 3-20.
  - Ch. 2 Connectionist models of cognition. M. S. C. Thomas and J. L. McClelland, 23-58.
  - Ch. 3 Bayesian models of cognition. T. L. Griffiths, C. Kemp, and J. B. Tenenbaum, 59-100.
  - Ch. 4 Dynamical systems approaches to cognition. G. Schroner, 101-126.
  - Ch. 5 Declarative/logic-based cognitive modeling. S. Bringsjord, 127-169.
  - Ch. 6 Constraints in cognitive architectures. N. A. Taatgen and J. R. Anderson, 170-185.
  - Ch. 7 Visual object recognition: Can a single mechanism suffice? M. J. Tarr, 177-211.
o Ch. 8 The Complementary properties of holistic and analytic representations of shape, J. E. Hummel, 212-234.

Psychology & Linguistics

  - Section II The mental lexicon
    - Ch. 11 Morphological processes in language comprehension. W. D. Marslen-Wilson, 175-194.
    - Ch. 12 Semantic representation. G. Vigliocco & D. P. Vinson, 195-216.
    - Ch. 14 Connectionist models of reading. M. S. Seidenberg, 235-250.
  - Section III Comprehension and discourse
    - Ch. 18 Spoken language comprehension: insights from eye movements M. K. Tanenhaus, 309-326.
    - Ch. 19 Eye movements and on-line comprehension processes. A. Staub and K. Rayner, 327-342.
    - Ch. 20 Inference processing in discourse comprehension. M. Singer, 343-360.
  - Section V Language development
    - Ch. 35 The perceptual foundations of phonological development. S. Curtin & J. F. Werker, 577-600.
    - Ch. 36 Statistical learning in infant language development. R. Gømez, 601-616.
    - Ch. 38 Concept formation and language development: count nouns and object kinds. F. Xu, 627-634
    - Ch. 39 Learning to parse and its implications for language acquisition. J. C. Trueswell & L. R.Gleitman, 635-656
    - Ch. 40 Learning to read. R. Treiman & B. Kessler, 657-666
  - Part II. Spoken Word Recognition
    - Ch. 4 Current directions in research in spoken word recognition. A. G. Samuel & M. Sumner, 61-75
- Ch. 6 Finding the words: how young children develop skill in interpreting spoken language. A. Fernald & M. Frank, 104-126
  - Part III. Written Word Recognition
    - Ch. 8 Visual word recognition in skilled adult readers. M. J. Cortese & D. A. Balota, 159-185.
    - Ch. 10 Decoding, orthographic learning and the development of visual word recognition. K. Nation, 204-217.
  - Part IV. Semantic Memory
    - Ch. 12 The human conceptual system. L. W. Barsalou, 239-258.
  - Part VII. Sentence Production
    - Ch. 20 Research in language production. Z. M. Griffin & C. M. Crew, 409-425.
  - Part IX. Discourse and Conversation
    - Ch. 27 Spoken discourse and its emergence. H. H. Clark, 541-557.

  - Ch. 22 Neurolinguistic computational models. B. MacWhinney & P. Li, 229-236.
  - Ch. 23 Mirror neurons and language. M. A. Arbib, 237-246.
  - Ch. 2 Why do we need a phonological loop? 15-34.
  - Ch. 3 The phonological loop: challenges and growing points, 35-62.
  - Ch. 5 The case for linguistic nativism. R. J. Matthews, 81-96.
  - Ch. 6 On the innateness of language. J. McGilvray, 97-112.
  - Grimaldi, Mirko: Toward a neural theory of language: Old issues and new perspectives, 304-327.

o Rizzi, Luigi: Core linguistic computations: How are they expressed in the mind/brain?, 489-499.

o Guerra-Filho, Gutemberg and Aloimonos, Yiannis: The syntax of human actions and interactions, 500-514.