

Dodatak B

Literatura

Pregled literature

Ova bibliografija obuhvaća temeljne radove iz područja logike, filozofije logike, računarske znanosti i njihovih međusobnih veza. Organizirana je u nekoliko tematskih cjelina koje prate strukturu udžbenika.

B.1 Klasični filozofski temelji logike

- [Witt22] Wittgenstein, L. (1922). *Tractatus Logico-Philosophicus*. Trans. C. K. Ogden. London: Routledge. [Novija izdanja: Oxford 2023, ISBN: 978-0-19-886137-9; Penguin 2023, ISBN: 978-0-24-168195-4]
- [Frege79] Frege, G. (1879). *Begriffsschrift, eine der arithmetischen nachgebildete Formelsprache des reinen Denkens*. Halle: Louis Nebert.
- [Frege84] Frege, G. (1884). *Die Grundlagen der Arithmetik*. Breslau: Wilhelm Koebner. [Engleski prijevod: *The Foundations of Arithmetic*, Northwestern University Press, ISBN: 0-8101-0605-1]
- [Frege93] Frege, G. (1893/1903). *Grundgesetze der Arithmetik*. Jena: Hermann Pohle. [Engleski prijevod: *Basic Laws of Arithmetic*, Oxford 2013/2016, ISBN: 978-0-19-877730-4]
- [RW10] Russell, B., & Whitehead, A. N. (1910-1913). *Principia Mathematica* (3 vols.). Cambridge: Cambridge University Press.
- [Russ19] Russell, B. (1919). *Introduction to Mathematical Philosophy*. London: George Allen & Unwin. [Moderno izdanje: Routledge, ISBN: 0-415-09604-9]
- [Tars56] Tarski, A. (1956). *Logic, Semantics, Metamathematics: Papers from 1923 to 1938*. Trans. J. H. Woodger. Oxford: Clarendon Press. [Novo izdanje: Hackett 1983, ISBN: 0-915-14476-X]

B.2 Suvremeni udžbenici formalne logike

- [Mend15] Mendelson, E. (2015). *Introduction to Mathematical Logic* (6th ed.). Boca Raton: CRC Press. ISBN: 978-1-48223-772-6.
- [Ende01] Enderton, H. B. (2001). *A Mathematical Introduction to Logic* (2nd ed.). San Diego: Academic Press. ISBN: 0-12-238452-0.
- [vDal13] van Dalen, D. (2013). *Logic and Structure* (5th ed.). London: Springer. ISBN: 978-1-44714-557-8.
- [Kune11] Kunen, K. (2011). *Set Theory*. London: College Publications. ISBN: 978-1-84890-050-9.
- [Jech03] Jech, T. (2003). *Set Theory* (3rd Millennium ed.). Berlin: Springer. ISBN: 3-540-44085-2.

B.3 Filozofija logike

- [Quin86] Quine, W. V. (1986). *Philosophy of Logic* (2nd ed.). Cambridge, MA: Harvard University Press. ISBN: 978-0-674-66563-7.
- [Quin82] Quine, W. V. (1982). *Methods of Logic* (4th ed.). Cambridge, MA: Harvard University Press. ISBN: 978-0-674-57176-1.
- [Haac78] Haack, S. (1978). *Philosophy of Logics*. Cambridge: Cambridge University Press. ISBN: 0-521-29329-4.
- [Pri08] Priest, G. (2008). *An Introduction to Non-Classical Logic: From If to Is* (2nd ed.). Cambridge: Cambridge University Press. ISBN: 978-0-521-67026-5.
- [Krip80] Kripke, S. (1980). *Naming and Necessity*. Cambridge, MA: Harvard University Press. ISBN: 0-674-59845-8.

B.4 Teorija dokaza i prirodna dedukcija

- [Gent35] Gentzen, G. (1935). Untersuchungen über das logische Schließen. *Mathematische Zeitschrift*, 39, 176-210, 405-431. [Engleski prijevod u: *The Collected Papers of Gerhard Gentzen*, North-Holland 1969]
- [Praw06] Prawitz, D. (2006). *Natural Deduction: A Proof-Theoretical Study*. Mineola, NY: Dover. ISBN: 978-0486446554.
- [Take13] Takeuti, G. (2013). *Proof Theory* (2nd ed.). Mineola, NY: Dover. ISBN: 978-0486490731.

- [TS00] Troelstra, A. S., & Schwichtenberg, H. (2000). *Basic Proof Theory* (2nd ed.). Cambridge: Cambridge University Press. ISBN: 978-0521779111.
- [Buss98] Buss, S. R. (Ed.). (1998). *Handbook of Proof Theory*. Amsterdam: Elsevier. ISBN: 978-0444898401.
- [GLT89] Girard, J.-Y., Lafont, Y., & Taylor, P. (1989). *Proofs and Types*. Cambridge: Cambridge University Press. [Dostupno online]

B.5 Automatsko dokazivanje teorema

- [CL73] Chang, C.-L., & Lee, R. C.-T. (1973). *Symbolic Logic and Mechanical Theorem Proving*. New York: Academic Press. [Dover reprint ISBN: 978-1493300242]
- [Harr09] Harrison, J. (2009). *Handbook of Practical Logic and Automated Reasoning*. Cambridge: Cambridge University Press. ISBN: 978-0521899574.
- [Fitt96] Fitting, M. (1996). *First-Order Logic and Automated Theorem Proving* (2nd ed.). New York: Springer. ISBN: 978-1461275152.
- [NPW02] Nipkow, T., Paulson, L. C., & Wenzel, M. (2002). *Isabelle/HOL: A Proof Assistant for Higher-Order Logic*. Berlin: Springer. LNCS 2283.
- [BC04] Bertot, Y., & Castéran, P. (2004). *Interactive Theorem Proving and Program Development: Coq'Art*. Berlin: Springer.

B.6 Lambda račun i teorija tipova

- [Bare85] Barendregt, H. P. (1985). *The Lambda Calculus: Its Syntax and Semantics* (Revised ed.). Amsterdam: North-Holland. ISBN: 978-0444875082.
- [Pier02] Pierce, B. C. (2002). *Types and Programming Languages*. Cambridge, MA: MIT Press. ISBN: 978-0262162098.
- [Pier04] Pierce, B. C. (Ed.). (2004). *Advanced Topics in Types and Programming Languages*. Cambridge, MA: MIT Press.
- [Harp16] Harper, R. (2016). *Practical Foundations for Programming Languages* (2nd ed.). Cambridge: Cambridge University Press. ISBN: 978-1107150300.
- [SU06] Sørensen, M. H., & Urzyczyn, P. (2006). *Lectures on the Curry-Howard Isomorphism*. Amsterdam: Elsevier. ISBN: 978-0444520777.
- [ML84] Martin-Löf, P. (1984). *Intuitionistic Type Theory*. Naples: Bibliopolis. [Dostupno online]
- [TD88] Troelstra, A. S., & van Dalen, D. (1988). *Constructivism in Mathematics* (2 vols.). Amsterdam: North-Holland.

B.7 Semantika programskih jezika

- [Wins93] Winskel, G. (1993). *The Formal Semantics of Programming Languages: An Introduction*. Cambridge, MA: MIT Press. ISBN: 978-0262731034.
- [Gunt92] Gunter, C. A. (1992). *Semantics of Programming Languages: Structures and Techniques*. Cambridge, MA: MIT Press. ISBN: 978-0262570954.
- [Stoy77] Stoy, J. E. (1977). *Denotational Semantics: The Scott-Strachey Approach to Programming Language Theory*. Cambridge, MA: MIT Press.
- [Reyn98] Reynolds, J. C. (1998/2009). *Theories of Programming Languages*. Cambridge: Cambridge University Press. ISBN: 978-0521106979.

B.8 Logika u računarskoj znanosti

- [HR04] Huth, M., & Ryan, M. (2004). *Logic in Computer Science: Modelling and Reasoning about Systems* (2nd ed.). Cambridge: Cambridge University Press. ISBN: 978-0521543101.
- [BA12] Ben-Ari, M. (2012). *Mathematical Logic for Computer Science* (3rd ed.). London: Springer. ISBN: 978-1447141280.
- [NS93] Nerode, A., & Shore, R. A. (1993). *Logic for Applications*. New York: Springer. ISBN: 978-0387948935.
- [Dijk76] Dijkstra, E. W. (1976). *A Discipline of Programming*. Englewood Cliffs, NJ: Prentice-Hall.

B.9 Logičko programiranje

- [SS94] Sterling, L., & Shapiro, E. (1994). *The Art of Prolog: Advanced Programming Techniques* (2nd ed.). Cambridge, MA: MIT Press. ISBN: 978-0262193382.
- [CM03] Clocksin, W. F., & Mellish, C. S. (2003). *Programming in Prolog: Using the ISO Standard* (5th ed.). Berlin: Springer. ISBN: 978-3540006787.
- [Lloy87] Lloyd, J. W. (1987). *Foundations of Logic Programming* (2nd ed.). Berlin: Springer. ISBN: 978-3642831911.
- [Brat12] Bratko, I. (2012). *Prolog Programming for Artificial Intelligence* (4th ed.). Harlow: Pearson.

B.10 Bayesovska vjerojatnost i induktivna logika

- [Jay03] Jaynes, E. T. (2003). *Probability Theory: The Logic of Science*. Cambridge: Cambridge University Press. ISBN: 978-0521592710.
- [Pearl88] Pearl, J. (1988). *Probabilistic Reasoning in Intelligent Systems*. San Francisco: Morgan Kaufmann. ISBN: 978-1558604797.
- [Good83] Goodman, N. (1983). *Fact, Fiction, and Forecast* (4th ed.). Cambridge, MA: Harvard University Press. ISBN: 978-0674290716.
- [Hack75] Hacking, I. (1975). *The Emergence of Probability*. Cambridge: Cambridge University Press. ISBN: 978-0521318037.

B.11 Dodatna literatura za Python programiranje

- [Lutz13] Lutz, M. (2013). *Learning Python* (5th ed.). Sebastopol, CA: O'Reilly. ISBN: 978-1449355739.
- [McK17] McKinney, W. (2017). *Python for Data Analysis* (2nd ed.). Sebastopol, CA: O'Reilly. ISBN: 978-1491957660.
- [VPG16] VanderPlas, J. (2016). *Python Data Science Handbook*. Sebastopol, CA: O'Reilly. ISBN: 978-1491912058.
- [Ras13] Raschka, S. (2015). *Python Machine Learning*. Birmingham: Packt Publishing. ISBN: 978-1783555130.

B.12 Neki radovi hrvatskih autora

- [Dov12a] Dovedan Han, Z. (2012). *Formalni jezici i prevodioci 1: Regularni izrazi, gramatike, automati*. Zagreb: Element.
- [Dov12b] Dovedan Han, Z. (2012). *Formalni jezici i prevodioci 2: Sintaksna analiza*. Zagreb: Element.
- [Dov12c] Dovedan Han, Z. (2012). *Formalni jezici i prevodioci 3: Prevođenje i primjene*. Zagreb: Element.
- [Lauc19] Lauc, D. et al (2019). *Pojmovnik elementarne logike*. Zagreb: FF Press. DOI: 10.17234/9789531758253.
- [Šik87] Šikić, Z. (1987). *Systems of Rules and Systems of Sequents* (Doctoral dissertation). University of Zagreb.
- [Šik91] Šikić, Z. (1991). A characterization theorem for consequence relations. *Mathematical Logic Quarterly*, 37(25-32), 385-390.

B.13 Online resursi i repozitoriji

- [**Git25**] Lauc, D. (2025). *Logika u kodu: Jupyter bilježnice i primjeri*. GitHub repozitorij. Dostupno na: <https://github.com/ffzg-logika/logika-u-kodu>
- [**SEP**] Stanford Encyclopedia of Philosophy. Dostupno na: <https://plato.stanford.edu/>
- [**IEP**] Internet Encyclopedia of Philosophy. Dostupno na: <https://iep.utm.edu/>
- [**nLab**] nLab - Mathematics, Physics, Philosophy. Dostupno na: <https://ncatlab.org/>
- [**MetaM**] Metamath Proof Explorer. Dostupno na: <http://us.metamath.org/>
- [**Coq**] The Coq Proof Assistant. Dostupno na: <https://coq.inria.fr/>
- [**Isa**] Isabelle Proof Assistant. Dostupno na: <https://isabelle.in.tum.de/>
- [**Lean**] Lean Theorem Prover. Dostupno na: <https://leanprover.github.io/>

Napomena: Ova bibliografija kontinuirano se ažurira novim izdanjima i relevantnim radovima. Za najnovije verzije i dodatne materijale, konzultirajte GitHub repozitorij udžbenika.