A Bibliography of Publications in *Theoretical Computer Science*: 1975–1979

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

08 February 2014
Version 1.08

Title word cross-reference

$(\log n)^j$ [14]. 5 [157]. β [166]. d [39]. k [182]. λ [62, 166, 4, 74, 178]. $\lambda - \beta - \eta$ [44]. $M_2(K)$ [141]. N [105]. st [45]. x, y [141]. xy [141]. yx [141].

***** [20, 100].

-ary [39]. **-calculi** [74]. **-calculus** [62, 166, 44, 4, 178]. **-dimensional** [157]. **-numbering** [45]. **-rational** [105]. **-recognisable** [182].

1/* [100].

2*2 [134]. **2*2-matrix** [134].

absolutely [11]. **abstract** [156, 74, 131]. **acceptance** [137]. **acceptor** [110]. **addition** [30, 157, 122, 1]. **additions** [42]. **adjacency** [73]. **AFL** [41]. **AFLs** [145]. **algebra** [104]. **Algebraic** [167, 189, 37, 77, 176, 13, 31, 169]. **algorithm** [166, 4, 103, 70, 125, 93, 11, 131]. **Algorithms** [15, 68, 84, 128, 134, 141]. **Almost** [182]. **alphabet** [61]. **ambiguity** [6]. **Analysis** [70, 64, 84]. **application** [31]. **applications** [131]. **approach** [36, 130]. **Approximate** [68]. **arithmetic** [180]. **Arithmetical** [162]. **arrangements** [85]. **ary** [39]. **assertions** [155]. **associated** [194]. **asynchronous** [95, 64]. **automata** [148, 121, 40, 191, 187, 64].

balanced [53]. **beta** [31]. **between** [99, 174, 21, 163, 63, 38, 181]. **Bibliography** [113]. **bilinear** [128, 134, 141]. **biological**

[32]. **blind** [146]. **Boolean** [10, 2, 48]. **bound** [23, 42, 1, 65]. **bounded** [66]. **bounded-right-context** [66]. **boundedness** [122]. **bounds** [61, 142, 39]. **brackets** [196].

calculating [103]. **calculi** [74]. **calculus** [62, 175, 166, 44, 4, 31, 9, 178]. **Call** [9]. **Call-by-name** [9]. **call-by-value** [9]. **cardinal** [103]. **Categories** [81, 150]. **cellular** [32]. **certain** [96, 133, 194, 39]. **Chain** [184, 81, 190]. **chain-complete** [81]. **chains** [1]. **Characterization** [44, 112, 168, 54]. **characterizations** [189, 27]. **characterize** [170]. **checking** [93]. **Church** [175, 36]. **Circuit** [49]. **class** [10, 24]. **classes** [5, 12, 38]. **closed** [196]. **closure** [77, 130]. **codes** [52, 7]. **codings** [127]. **combinational** [10, 18]. **Combinatorial** [60, 7]. **combinatory** [171]. **Commutation** [170]. **commutative** [105, 186]. **comparison** [8]. **Complete** [57, 51, 117, 144, 81, 177, 102, 16, 89]. **complexities** [5, 181]. **Complexity** [91, 71, 2, 161, 104, 123, 75, 17, 162, 10, 163, 29, 12, 18, 85, 3, 160, 132, 179, 131]. **Computability** [33]. **computation** [116, 162, 128, 134, 141]. **computational** [123, 3, 132]. **computations** [104, 114, 111, 42]. **Computing** [45, 160]. **concepts** [33]. **Concerning** [66, 20]. **Conditions** [53]. **cone** [100]. **conjecture** [183]. **connectivity** [80, 78]. **considered** [107]. **construction** [147]. **constructions** [150]. **context** [47, 79, 6, 66, 72]. **context-free** [47, 6, 72]. **continuous** [82]. **control** [99]. **convergence** [119]. **convex** [140]. **Correctness** [36]. **counter** [17]. **counterexample** [183]. **covering** [47, 122, 149]. **Cyclic** [102]. **cylinder** [172].

D [100]. **D/sub** [100]. **D0L** [55, 136, 153, 67]. **D0L-systems** [55]. **D=R** [52]. **Data** [156, 132, 99]. **Davis** [75]. **decidability** [55, 79, 195]. **Decidable** [80]. **decision** [56, 69, 126, 87, 154]. **decomposition** [13, 15]. **definition** [99]. **definitions** [119]. **degree** [6, 65]. **degrees** [29]. **delay** [7]. **densest** [118]. **dependencies** [99]. **depth** [49]. **derivation** [25]. **description** [83]. **descriptions** [92]. **designs** [94]. **Deterministic** [28, 172, 69, 5, 148, 57, 79]. **developmental** [5]. **diagonalization** [163]. **differentiation** [3]. **dimensional** [157]. **direct** [93]. **discrimination** [166, 171]. **disjoint** [48]. **distributions** [53]. **divisions** [142]. **do** [82]. **domains** [108]. **DP0L** [120]. **DPDA's** [83]. **DT0L** [186]. **dual** [181].

E0L [117, 127]. **Economy** [83]. **EDT0L** [21]. **effect** [111]. **Effectively** [108]. **efficient** [87]. **Eilenberg** [106]. **Elementary** [136, 65, 178]. **embedding** [12]. **enough** [155]. **enough-or** [155]. **enriched** [150]. **equations** [96]. **equivalence** [69, 55, 120, 136, 185, 125, 86, 93, 67, 18]. **erasable** [26]. **ergodic** [187]. **ET0L** [21, 143]. **Euclidean** [89]. **evaluate** [142]. **evaluating** [180]. **evaluation** [71]. **events** [154]. **examples** [101]. **expected** [125]. **explicit** [147]. **exponential** [54]. **exponential-time** [54]. **expressions** [180, 39]. **extension** [164, 169]. **extensions** [13].

facets [109]. **factorization** [70]. **Families** [196, 26, 13, 41]. **Fast** [173, 11]. **fields** [169]. **file** [94]. **Finding** [140, 152]. **Finite** [40, 69, 121, 191, 103, 98, 187, 139, 7]. **Finiteness** [59]. **firing** [135]. **Fixed** [150, 35, 119]. **Fixed-point** [150]. **fixpoint** [188]. **flowchart** [189, 168]. **form** [120, 82, 86]. **Formal** [192, 99]. **formation** [161]. **Forms** [117, 120, 44, 110, 86, 143]. **formulae** [147]. **foundations** [60, 22]. **FP0L** [127]. **free** [47, 79, 6, 63, 72]. **full**

[145]. **Fully** [74]. **function** [153]. **functions** [62, 112, 10, 147, 119, 12, 48, 67, 76, 38, 39, 179]. **fundamental** [111].

gaps [163]. **generable** [24]. **generalised** [151]. **generalized** [188, 68]. **generating** [170, 153]. **generation** [167, 173]. **given** [108]. **global** [116, 62, 174]. **good** [23, 143]. **grammars** [90, 185, 47, 190, 93, 149, 66]. **grammatical** [54]. **graph** [189, 16, 73]. **group** [104, 78, 128].

half [152]. **half-spaces** [152]. **having** [7]. **HD0L** [195]. **hemisphere** [118]. **hierarchies** [71]. **hierarchy** [159, 162, 50, 51]. **holds** [171]. **homomorphisms** [136, 28]. **hyper** [13]. **hyper-algebraic** [13]. **hypothesis** [161].

identification [46]. **II** [193, 129, 60, 134]. **III** [141]. **images** [133]. **Improved** [142]. **improvement** [69]. **inclusion** [19]. **induction** [192, 193]. **inductive** [46, 130]. **ineffable** [59]. **inference** [92, 46]. **infinite** [27, 103]. **Information** [27, 60, 22, 99, 23]. **Information-theoretic** [27]. **inherent** [6]. **Init** [158]. **integers** [71]. **interactions** [5, 32]. **interpolating** [3]. **interpretation** [31]. **Intersection** [133, 140, 152]. **Intuitionistic** [177]. **inverse** [44]. **Isomorphism** [120]. **isomorphisms** [144]. **isotropy** [128]. **iterated** [97]. **Iterating** [97]. **iterative** [167, 37].

K-calculus [31]. **knapsack** [68].

L [86, 139, 113]. **L*** [139]. **L-forms** [86]. **labelled** [31]. **lambda** [175, 31, 9]. **lambda-calculus** [31, 9]. **Language** [158, 96, 33, 61, 13, 139, 107]. **languages** [172, 37, 137, 124, 129, 5, 21, 127, 25, 19, 90, 26, 17, 79, 24, 54, 190, 138, 6, 196, 41, 28, 72]. **large** [173]. **lattice** [82]. **LCF** [101, 107]. **Least** [35]. **left** [149]. **left-recursive** [149]. **lemma** [72]. **lemmas** [14]. **length** [1]. **letter** [61]. **Lindenmayer** [194, 28]. **linear** [10, 47, 133]. **linearity** [125]. **lists** [109]. **LL** [93]. **local** [116]. **Log** [115, 144, 152, 41]. **log-tape** [144]. **logic** [177, 39]. **Lower** [39, 42, 142, 1]. **lowness** [123]. **LR** [90].

machines [69, 114, 146, 115]. **many** [109]. **mapping** [128]. **mappings** [126, 128, 134, 141]. **match** [94]. **mathematical** [60, 22]. **matrices** [103, 98, 73, 195]. **matrix** [151, 2, 134]. **McCreight** [131]. **McCreight-Meyer** [131]. **meaningful** [168]. **measures** [71]. **mechanized** [161]. **Mechanizing** [192, 193, 58]. **method** [151]. **Meyer** [131]. **Minimal** [29, 135]. **minimum** [11]. **models** [74]. **monoid** [139]. **monoids** [52, 63]. **monotone** [147, 2, 42, 183, 179]. **monotonic** [38]. **mu** [59]. **mu-ineffable** [59]. **multicounter** [146]. **multihead** [191]. **multiple** [115]. **multiplication** [40, 169, 134]. **multiplications** [142]. **multiplications/divisions** [142].

n [152, 41, 20]. **N-subsets** [20]. **name** [9]. **natural** [46]. **ND** [64]. **ND-automata** [64]. **nearly** [179]. **necessary** [142]. **net** [80]. **nets** [56, 91]. **networks** [135, 2, 183]. **Non** [94, 148]. **non-singular** [148]. **Non-uniform** [94]. **nondeterministic** [17]. **nonlinear** [49]. **nonsingular** [195]. **nonterminals** [28]. **normal** [44]. **note** [172, 148, 88]. **NP** [102, 16, 89]. **NP-complete** [102, 16, 89]. **number** [180, 153, 42, 142]. **numbering** [45]. **numbers** [111].

O [152]. **Omega** [114, 82, 58, 79, 184]. **Omega-computations** [114]. **omega-context-free** [79]. **omega-order** [58]. **One** [121, 191, 146]. **One-way** [191, 146]. **open** [196]. **operations** [138]. **operator** [96, 12]. **operators** [158].

optimal [92, 128, 134, 141]. **oracle** [115]. **order** [87, 154, 58, 150]. **order-enriched** [150]. **ordering** [102].

P [82, 184]. **paging** [85]. **paging-complexity** [85]. **pairs** [167, 37, 29]. **parallel** [25, 36]. **Parikh** [195]. **parsers** [83]. **partial** [94]. **partial-match** [94]. **partially** [146]. **PASCAL** [101]. **PDA's** [83]. **periodic** [182, 85]. **periodicity** [174]. **permanent** [160]. **Petri** [56, 80, 91]. **point** [150]. **points** [35, 119]. **polyautomata** [135]. **polyhedra** [140]. **polynomial** [159, 126, 14, 57, 8, 29, 177, 50, 51]. **polynomial-space** [177]. **polynomial-time** [50, 51]. **polynomials** [71, 15, 142, 3]. **posets** [81, 130]. **Positive** [43]. **possessing** [44]. **pre** [41]. **pre-AFL** [41]. **prefix** [52]. **preserving** [34]. **primes** [173]. **primitives** [170]. **problem** [56, 55, 136, 19, 30, 157, 82, 47, 118, 135, 156, 89, 6, 149]. **problems** [56, 80, 126, 68, 16, 57, 91, 60, 122, 195]. **procedure** [69, 87, 75, 154]. **processing** [61]. **produced** [100]. **Product** [100, 2]. **Program** [176]. **programming** [33, 107]. **programs** [36]. **proof** [101, 165, 163, 65]. **properties** [123, 170, 46, 73, 184]. **property** [7]. **propositional** [177]. **pumping** [72]. **Pushdown** [110, 69, 148]. **Putnam** [75].

quadratic [179]. **quality** [30]. **question** [106].

Rational [112, 165, 37, 87, 105, 100, 106, 67, 63, 43]. **reachability** [56, 80, 157]. **real** [111]. **Realizing** [48]. **recognisable** [182]. **recognizable** [20]. **recognizing** [73]. **recurrent** [133]. **Recursive** [155, 62, 27, 119, 12, 54, 149, 178]. **reducibilities** [8]. **reducible** [168]. **reduction** [151, 171, 95]. **referring** [183]. **registers** [180]. **Regular** [52, 75, 154]. **Regularity** [34]. **Regularity-preserving** [34]. **related** [56, 158, 41]. **relating** [15]. **relation** [181]. **Relations** [163, 112, 63, 34]. **Relationship** [174, 21]. **Relationships** [38]. **relative** [137]. **Remarks** [17, 146, 105]. **repetitions** [174]. **representation** [62, 124, 129, 187, 132]. **required** [180]. **resolution** [75]. **result** [79]. **retracts** [82]. **retrieval** [60, 22]. **retrieval-mathematical** [60]. **return** [181]. **revisited** [35]. **right** [66]. **Rosser** [175, 36].

S. [106]. **salesman** [89]. **schemes** [189, 168, 32]. **Schnorr** [88, 183]. **Scott** [82]. **second** [159]. **semantically** [168]. **semantics** [101, 33, 176]. **semi** [145]. **semi-AFLs** [145]. **semigroups** [103, 52, 98]. **separatedness** [88]. **sequence** [55, 120, 136, 153]. **sequences** [123, 106, 43]. **sequential** [112, 145, 76]. **series** [105, 133, 194]. **sets** [80, 182, 170, 144, 48, 51]. **setting** [188]. **short** [147]. **sigma** [20]. **Simple** [190, 19, 191, 70, 125]. **simplified** [16]. **single** [61]. **singular** [148]. **size** [49, 39]. **slices** [170]. **solution** [136, 82]. **solutions** [96]. **Some** [56, 123, 126, 16, 26, 46, 131, 68, 32, 91, 24, 195]. **sorting** [23, 11]. **space** [14, 99, 115, 41, 177, 181]. **spaces** [152]. **specification** [156]. **specified** [137]. **squad** [135]. **stability** [32]. **stable** [11]. **step** [159]. **storage** [60, 22, 11]. **Strassen** [65]. **Strategies** [193, 175]. **strings** [27]. **strong** [80, 46, 72]. **strong-identification** [46]. **structural** [192, 193]. **structure** [99]. **structured** [189]. **structures** [77]. **study** [96]. **sub** [100]. **subclasses** [24]. **subexponential** [29]. **subpatterns** [153]. **subsequential** [112]. **subsets** [20]. **substitution** [97]. **Subword** [5]. **Surface** [25]. **Switching** [179]. **symbol** [117]. **symbolic** [3]. **symmetric** [147]. **synchronization** [170, 135, 7]. **syntactic** [52, 139]. **Syntactical** [96]. **synthesis** [64]. **system** [192]. **systems** [167, 30, 163, 157,

186, 95, 22, 122, 194, 113, 195, 55].

table [78]. **tape** [61, 144]. **tapes** [115]. **Tautology** [151]. **testing** [151, 173]. **their** [156]. **theorem** [171, 13, 12, 164]. **theorems** [165, 20]. **theoretic** [189, 27]. **theory** [116, 188, 87, 23, 58, 131]. **time** [14, 57, 135, 8, 54, 152, 50, 51]. **transductions** [165, 37, 145]. **transformation** [185]. **transformations** [176]. **transitive** [77]. **Translational** [14]. **traveling** [89]. **tree** [25]. **trees** [124, 129, 25, 84, 185, 53]. **Turing** [114, 6]. **turn** [69]. **Two** [20, 165, 117, 145, 140]. **two-symbol** [117]. **two-way** [145]. **type** [58]. **typed** [4, 74, 178]. **types** [156].

undecidable [30]. **unification** [4, 58]. **uniform** [94, 130]. **uniformly** [26].

Valiant [69]. **value** [9]. **variables** [48]. **variant** [76]. **Varieties** [138, 128, 134, 141]. **various** [170, 5]. **vector** [30, 157, 122]. **verification** [173]. **verify** [78]. **visit** [121].

way [121, 146, 145, 191]. **weak** [171]. **weighted** [53]. **where** [139, 141]. **which** [142]. **whose** [179]. **Winograd** [164]. **without** [5]. **words** [174].

Z [67]. **Z-rational** [67]. **Zeros** [67].

References

Schonhage:1975:LBL

[1] A. Schonhage. A lower bound for the length of addition chains. *Theoretical Computer Science*, 1(1):1–12, June 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Paterson:1975:CMN

[2] M. S. Paterson. Complexity of monotone networks for Boolean matrix product. *Theoretical Computer Science*, 1(1): 13–20, June 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Strassen:1975:CCS

[3] V. Strassen. The computational complexity of symbolic differentiation of interpolating polynomials. *Theoretical Computer Science*, 1(1):21–25, June 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Huet:1975:UAT

[4] G. P. Huet. A unification algorithm for typed λ-calculus. *Theoretical Computer Science*, 1(1):27–57, June 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ehrenfeucht:1975:SCV

[5] A. Ehrenfeucht, K. P. Lee, and G. Rozenberg. Subword complexities of various classes of deterministic developmental languages without interactions. *Theoretical Computer Science*, 1(1):59–75, June 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Reedy:1975:TDI

[6] A. Reedy and W. J. Savitch. The Turing degree of the inherent ambiguity problem for context-free languages. *Theoretical Computer Science*, 1(1):77–91, June 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Restivo:1975:CPC

[7] A. Restivo. A combinatorial property of codes having finite synchronization delay. *Theoretical Computer Science*, 1(2):

95–101, December 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ladner:1975:CPT

[8] R. E. Ladner, N. A. Lynch, and A. L. Selman. A comparison of polynomial time reducibilities. *Theoretical Computer Science*, 1(2):103–123, December 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Plotkin:1975:CNC

[9] G. D. Plotkin. Call-by-name, call-by-value and the lambda-calculus. *Theoretical Computer Science*, 1(2):125–159, December 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Harper:1975:CBF

[10] L. H. Harper, W. N. Hsieh, and J. E. Savage. A class of Boolean functions with linear combinational complexity. *Theoretical Computer Science*, 1(2):161–133, December 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Preparata:1975:FSS

[11] F. P. Preparata. A fast stable sorting algorithm with absolutely minimum storage. *Theoretical Computer Science*, 1 (2):185–190, December 1975. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Moll:1976:OET

[12] R. Moll. An operator embedding theorem for complexity classes of recursive functions. *Theoretical Computer Science*, 1(3):193–198, February 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Leeuwen:1976:DTH

[13] J. Leeuwen and D. Wood. A decomposition theorem for hyper-algebraic extensions of language families. *Theoretical Computer Science*, 1(3):199–214, February 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Book:1976:TLP

[14] R. V. Book. Translational lemmas, polynomial time, and $(\log n)^j$ — space. *Theoretical Computer Science*, 1(3):215–216, February 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Mignotte:1976:ARD

[15] M. Mignotte. Algorithms relating to the decomposition of polynomials. *Theoretical Computer Science*, 1(3):227–235, February 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Garey:1976:SSN

[16] M. R. Garey and D. S. Johnson. Some simplified NP-complete graph problems. *Theoretical Computer Science*, 1(3):237–267, February 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Greibach:1976:RCN

[17] S. A. Greibach. Remarks on the complexity of nondeterministic counter languages. *Theoretical Computer Science*, 1(4):269–288, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Schnorr:1976:CCE

[18] C. P. Schnorr. The combinational complexity of equivalence. *Theoretical Computer Science*, 1(4):289–295, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Friedman:1976:IPS

[19] E. P. Friedman. The inclusion problem for simple languages. *Theoretical Computer Science*, 1(4):297–316, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Karhumaki:1976:TTC

[20] J. Karhumaki. Two theorems concerning recognizable N-subsets of sigma *. *Theoretical Computer Science*, 1(4):317–323, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ehrenfeucht:1976:RBE

[21] A. Ehrenfeucht, G. Rozenberg, and S. Skyum. A relationship between ET0L and EDT0L languages. *Theoretical Computer Science*, 1(4):325–330, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Marek:1976:ISR

[22] W. Marek and Z. Pawlak. Information storage and retrieval systems: mathematical foundations. *Theoretical Computer Science*, 1(4):331–354, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Fredman:1976:HGI

[23] M. L. Fredman. How good is the information theory bound in sorting? *Theoretical Computer Science*, 1(4):355–361, April 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Meznik:1976:SSC

[24] I. Meznik. On some subclasses of the class of generable languages. *Theoretical Computer Science*, 2(1):1–7, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Engelfriet:1976:STL

[25] J. Engelfriet. Surface tree languages and parallel derivation trees. *Theoretical Computer Science*, 2(1):9–27, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ginsburg:1976:SUE

[26] S. Ginsburg, J. Goldstine, and S. Greibach. Some uniformly erasable families of languages. *Theoretical Computer Science*, 2(1):29–44, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Chaitin:1976:ITC

[27] G. J. Chaitin. Information-theoretic characterizations of recursive infinite strings. *Theoretical Computer Science*, 2(1):45–48, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Vitanyi:1976:DLL

[28] P. M. B. Vitanyi. Deterministic Lindenmayer languages, nonterminals and homomorphisms. *Theoretical Computer Science*, 2(1):49–71, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Machtey:1976:MPP

[29] M. Machtey. Minimal pairs of polynomial degrees with subexponential complexity. *Theoretical Computer Science*, 2(1):73–76, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hack:1976:QPV

[30] M. Hack. The quality problem for vector addition systems is undecidable. *Theoretical Computer Science*, 2(1):77–95, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Levy:1976:AIL

[31] J.-J. Levy. An algebraic interpretation of the lambda beta K-calculus; and an application of a labelled lambda-calculus. *Theoretical Computer Science*, 2(1):97–114, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Herman:1976:SSB

[32] G. T. Herman and A. Walker. On the stability of some biological schemes with cellular interactions. *Theoretical Computer Science*, 2(1):115–130, June 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Egli:1976:CCP

[33] H. Egli and R. L. Constable. Computability concepts for programming language semantics. *Theoretical Computer Science*, 2(2):133–145, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Seiferas:1976:RPR

[34] J. I. Seiferas and R. McNaughton. Regularity-preserving relations. *Theoretical Computer Science*, 2(2):147–154, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

DeBakker:1976:LFP

[35] J. W. De Bakker. Least fixed points revisited. *Theoretical Computer Science*, 2(2):155–181, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Rosen:1976:CPP

[36] B. K. Rosen. Correctness of parallel programs: the Church–Rosser approach. *Theoretical Computer Science*, 2(2):183–207, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Boasson:1976:ALI

[37] L. Boasson. Algebraic languages, iterative pairs and rational transductions. *Theoretical Computer Science*, 2(2):209–223, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Trakhtenbrot:1976:RBC

[38] M. B. Trakhtenbrot. Relationships between classes of monotonic functions. *Theoretical Computer Science*, 2(2):228–247, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Vilfan:1976:LBS

[39] B. Vilfan. Lower bounds for the size of expressions for certain functions in d-ary

logic. *Theoretical Computer Science*, 2 (2):249–269, ???? 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ibarra:1976:FAM

[40] O. H. Ibarra, S. K. Sahni, and C. E. Kim. Finite automata with multiplication. *Theoretical Computer Science*, 2 (3):271–294, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Springsteel:1976:PAL

[41] F. N. Springsteel. On the pre-AFL of (log n) space and related families of languages. *Theoretical Computer Science*, 2(3):295–304, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Schnorr:1976:LBN

[42] C. P. Schnorr. A lower bound on the number of additions in monotone computations. *Theoretical Computer Science*, 2(3):305–315, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Soittola:1976:PRS

[43] M. Soittola. Positive rational sequences. *Theoretical Computer Science*, 2(3):317–322, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Dezani-Ciancaglini:1976:CNF

[44] M. Dezani-Ciancaglini. Characterization of normal forms possessing inverse in the $\lambda - \beta - \eta$-calculus. *Theoretical Computer Science*, 2(3):323–337, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Even:1976:CN

[45] S. Even and R. E. Tarjan. Computing an *st*-numbering. *Theoretical Computer Science*, 2(3):339–344, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Minicozzi:1976:SNP

[46] E. Minicozzi. Some natural properties of strong-identification in inductive inference. *Theoretical Computer Science*, 2(3):345–360, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hunt:1976:CPL

[47] H. B. Hunt, D. J. Rosenkrantz, and T. G. Szymanski. The covering problem for linear context-free grammars. *Theoretical Computer Science*, 2(3):361–382, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Paul:1976:RBF

[48] W. J. Paul. Realizing Boolean functions on disjoint sets of variables. *Theoretical Computer Science*, 2(3):383–396, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Paterson:1976:CSN

[49] M. S. Paterson and L. G. Valiant. Circuit size is nonlinear in depth. *Theoretical Computer Science*, 2(3):397–400, September 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Stockmeyer:1976:PTH

[50] L. J. Stockmeyer. The polynomial-time hierarchy. *Theoretical Computer Science*, 3(1):1–22, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wrathall:1976:CSP

[51] C. Wrathall. Complete sets and the polynomial-time hierarchy. *Theoretical Computer Science*, 3(1):23–33, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Lallement:1976:RSD

[52] G. Lallement. Regular semigroups with D=R as syntactic monoids of prefix codes. *Theoretical Computer Science*, 3 (1):35–49, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hotz:1976:CBT

[53] G. Hotz. Conditions for balanced trees on weighted distributions. *Theoretical Computer Science*, 3(1):51–59, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Monien:1976:RGC

[54] B. Monien. A recursive and a grammatical characterization of the exponential-time languages. *Theoretical Computer Science*, 3(1):61–74, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Culik:1976:DSE

[55] K. Culik, II. On the decidability of the sequence equivalence problem for D0L-systems. *Theoretical Computer Science*, 3(1):75–84, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Araki:1976:SDP

[56] T. Araki and T. Kasami. Some decision problems related to the reachability problem for Petri nets. *Theoretical Computer Science*, 3(1):85–104, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Jones:1976:CPD

[57] N. D. Jones and W. T. Laaser. Complete problems for deterministic polynomial time. *Theoretical Computer Science*, 3(1):105–117, October 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Jensen:1976:MOO

[58] D. C. Jensen and T. Pietrzykowski. Mechanizing omega-order type theory through unification. *Theoretical Computer Science*, 3(2):123–171, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Park:1976:FMI

[59] D. Park. Finiteness is mu-ineffable. *Theoretical Computer Science*, 3(2):173–181, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Lipski:1976:ISR

[60] W. Lipski, Jr. Information storage and retrieval-mathematical foundations II. combinatorial problems. *Theoretical Computer Science*, 3(2):183–211, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hartmanis:1976:TBS

[61] J. Hartmanis and L. Berman. On tape bounds for single letter alphabet language processing. *Theoretical Computer Science*, 3(2):213–224, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Barendregt:1976:GRR

[62] H. Barendregt. A global representation of the recursive functions in the λ-calculus. *Theoretical Computer Science*, 3(2):225–242, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Schutzenberger:1976:RRB

[63] M. P. Schutzenberger. On the rational relations between free monoids. *Theoretical Computer Science*, 3(2):243–259, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Starke:1976:ASA

[64] P. H. Starke. Analysis and synthesis of asynchronous ND-automata. *Theoretical Computer Science*, 3(2):261–266, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Schonhage:1976:EPS

[65] A. Schonhage. An elementary proof for Strassen's degree bound. *Theoretical Computer Science*, 3(2):267–272, November 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Szymanski:1976:CBR

[66] T. G. Szymanski. Concerning bounded-right-context grammars. *Theoretical Computer Science*, 3(3):273–282, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ruohonen:1976:ZZR

[67] K. Ruohonen. Zeros of Z-rational functions and D0L equivalence. *Theoretical Computer Science*, 3(3):283–292, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Chandra:1976:AAS

[68] A. K. Chandra, D. S. Hirschberg, and C. K. Wong. Approximate algorithms for some generalized knapsack problems. *Theoretical Computer Science*, 3(3):293–304, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Beeri:1976:IVD

[69] C. Beeri. An improvement on Valiant's decision procedure for equivalence of deterministic finite turn pushdown machines. *Theoretical Computer Science*, 3(3):305–320, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Knuth:1976:ASF

[70] D. E. Knuth and L. T. Pardo. Analysis of a simple factorization algorithm. *Theoretical Computer Science*, 3(3):321–348, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Lipton:1976:CMH

[71] R. J. Lipton and D. Dobkin. Complexity measures and hierarchies for the evaluation of integers and polynomials. *Theoretical Computer Science*, 3(3):349–357, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wise:1976:SPL

[72] D. S. Wise. A strong pumping lemma for context-free languages. *Theoretical Computer Science*, 3(3):359–369, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Rivest:1976:RGP

[73] R. L. Rivest and J. Vuillemin. On recognizing graph properties from adjacency matrices. *Theoretical Computer Science*, 3(3):371–384, December 1976. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Milner:1977:FAM

[74] R. Milner. Fully abstract models of typed λ-calculi. *Theoretical Computer Science*, 4(1):1–22, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Galil:1977:CRR

[75] Z. Galil. On the complexity of regular resolution and the Davis–Putnam procedure. *Theoretical Computer Science*, 4 (1):23–46, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Schutzenberger:1977:VSF

[76] H. P. Schutzenberger. On a variant of sequential functions. *Theoretical Computer Science*, 4(1):47–57, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Lehmann:1977:AST

[77] D. J. Lehmann. Algebraic structures for transitive closure. *Theoretical Computer Science*, 4(1):59–76, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Vuillemin:1977:HVC

[78] J. Vuillemin. How to verify the connectivity of a group table. *Theoretical Computer Science*, 4(1):77–82, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Linna:1977:DRD

[79] M. Linna. A decidability result for deterministic omega-context-free languages. *Theoretical Computer Science*, 4(1):83–98, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Araki:1977:DPS

[80] T. Araki and T. Kasami. Decidable problems on the strong connectivity of Petri net reachability sets. *Theoretical Computer Science*, 4(1):99–119, February 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Markowsky:1977:CCC

[81] G. Markowsky. Categories of chain-complete posets. *Theoretical Computer Science*, 4(2):125–135, April 1977. CO-

DEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hosono:1977:RPO

[82] C. Hosono and M. Sato. The retracts in P omega do not form a continuous lattice — a solution to Scott's problem. *Theoretical Computer Science*, 4 (2):137–142, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Geller:1977:EDP

[83] M. M. Geller, H. B. Hunt, III, T. G. Szymanski, and J. D. Ullman. Economy of description by parsers, DPDA's, and PDA's. *Theoretical Computer Science*, 4(2):143–153, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Francon:1977:AAT

[84] J. Francon. On the analysis of algorithms for trees. *Theoretical Computer Science*, 4(2):155–169, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Stork:1977:PCP

[85] H.-G. Stork. On the paging-complexity of periodic arrangements. *Theoretical Computer Science*, 4(2):171–197, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Maurer:1977:FEF

[86] H. Maurer, Th. Ottmann, and A. Salomaa. On the form equivalence of L-forms. *Theoretical Computer Science*, 4 (2):199–225, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ferrante:1977:EDP

[87] J. Ferrante and J. R. Geiser. An efficient decision procedure for the theory of rational order. *Theoretical Computer Science*, 4(2):227–233, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Lehmann:1977:NSS

[88] D. J. Lehmann. A note on Schnorr's separatedness. *Theoretical Computer Science*, 4(2):235–??, April 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Papadimitriou:1977:ETS

[89] C. H. Papadimitriou. The Euclidean traveling salesman problem is NP-complete. *Theoretical Computer Science*, 4(3):237–244, June 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Geller:1977:LKG

[90] M. M. Geller and M. A. Harrison. On LR(k) grammars and languages. *Theoretical Computer Science*, 4(3):245–276, June 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Jones:1977:CSP

[91] N. D. Jones, L. H. Landweber, and Y. E. Lien. Complexity of some problems in Petri nets. *Theoretical Computer Science*, 4(3):277–299, June 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Daley:1977:IOD

[92] R. Daley. On the inference of optimal descriptions. *Theoretical Computer Sci-*

ence, 4(3):301–319, June 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Olshansky:1977:DAC

[93] T. Olshansky and A. Pnueli. A direct algorithm for checking equivalence of LL(k) grammars. *Theoretical Computer Science*, 4(3):321–349, June 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Burkhard:1977:NUP

[94] W. A. Burkhard. Non-uniform partial-match file designs. *Theoretical Computer Science*, 5(1):1–23, August 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Kwong:1977:RAS

[95] Y. S. Kwong. On reduction of asynchronous systems. *Theoretical Computer Science*, 5(1):25–50, August 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Chottin:1977:SSC

[96] L. Chottin. Syntactical study of certain language solutions of operator equations. *Theoretical Computer Science*, 5 (1):51–84, August 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Engelfriet:1977:IIS

[97] J. Engelfriet. Iterating iterated substitution. *Theoretical Computer Science*, 5 (1):85–100, August 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Mandel:1977:FSM

[98] A. Mandel and I. Simon. On finite semigroups of matrices. *Theoretical Computer Science*, 5(2):101–111, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Cremers:1977:FDD

[99] A. B. Cremers and T. N. Hibbard. On the formal definition of dependencies between the control and information structure of a data space. *Theoretical Computer Science*, 5(2):113–128, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Latteux:1977:PRC

[100] M. Latteux. Product in the rational cone produced by D/sub 1/*. *Theoretical Computer Science*, 5(2):129–134, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Aiello:1977:PLS

[101] L. Aiello, M. Aiello, and R. W. Weyhrauch. PASCAL in LCF: semantics and examples of proof. *Theoretical Computer Science*, 5(2):135–177, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Galil:1977:CON

[102] Z. Galil and N. Megiddo. Cyclic ordering is NP-complete. *Theoretical Computer Science*, 5(2):179–182, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Jacob:1977:ACC

[103] G. Jacob. An algorithm for calculating the cardinal, finite or infinite, of the semigroups of matrices. *Theoretical*

Computer Science, 5(2):183–204, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Atkinson:1977:CGA

[104] M. D. Atkinson. The complexity of group algebra computations. *Theoretical Computer Science*, 5(2):205–209, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Karhumaki:1977:RCR

[105] J. Karhumaki. Remarks on commutative N-rational series. *Theoretical Computer Science*, 5(2):211–217, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Reutenauer:1977:QER

[106] C. Reutenauer. On a question of S. Eilenberg (rational sequences). *Theoretical Computer Science*, 5(2):219–??, October 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Plotkin:1977:LCP

[107] G. D. Plotkin. LCF considered as a programming language. *Theoretical Computer Science*, 5(3):223–255, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Smyth:1977:EGD

[108] M. B. Smyth. Effectively given domains. *Theoretical Computer Science*, 5(3):257–274, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Elgot:1977:MFL

[109] C. C. Elgot and L. Snyder. On the many facets of lists. *Theoretical Computer Science*, 5(3):275–305, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ginsburg:1977:PAF

[110] S. Ginsburg and E. H. Spanier. Pushdown acceptor forms. *Theoretical Computer Science*, 5(3):307–320, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Luckhardt:1977:FEC

[111] H. Luckhardt. A fundamental effect in computations on real numbers. *Theoretical Computer Science*, 5(3):321–324, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Choffrut:1977:RRC

[112] C. Choffrut. Rational relations characterization of sequential and subsequential functions. *Theoretical Computer Science*, 5(3):325–337, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Rozenberg:1977:BS

[113] G. Rozenberg, M. Penttonen, and A. Salomaa. Bibliography of L systems. *Theoretical Computer Science*, 5(3):339–354, December 1977. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Cohen:1978:OCT

[114] R. S. Cohen and A. Y. Gold. Omega-computations on Turing machines. *Theoretical Computer Science*, 6(1):1–23, February 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Lynch:1978:LSM

[115] N. Lynch. Log space machines with multiple oracle tapes. *Theoretical Computer Science*, 6(1):25–39, February 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Abelson:1978:TTL

[116] H. Abelson. Towards a theory of local and global in computation. *Theoretical Computer Science*, 6(1):41–67, February 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Culik:1978:TSC

[117] K. Culik, II, H. A. Maurer, and Th. Ottmann. On two-symbol complete E0L forms. *Theoretical Computer Science*, 6 (1):69–92, February 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Johnson:1978:DHP

[118] D. S. Johnson and F. P. Preparata. The densest hemisphere problem. *Theoretical Computer Science*, 6(1):93–107, February 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Manna:1978:CFF

[119] Z. Manna and A. Shamir. The convergence of functions to fixed points of recursive definitions. *Theoretical Computer Science*, 6(2):109–141, April 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Culik:1978:IFE

[120] K. Culik, II, H. A. Maurer, Th. Ottmann, K. Ruohonen, and A. Salomaa. Isomorphism, form equivalence and sequence equivalence of DP0L forms. *Theoretical Computer Science*, 6 (2):143–173, April 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Greibach:1978:OWF

[121] S. A. Greibach. One way finite visit automata. *Theoretical Computer Science*, 6(2):175–221, April 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Rackoff:1978:CBP

[122] C. Rackoff. The covering and boundedness problems for vector addition systems. *Theoretical Computer Science*, 6 (2):223–231, April 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Bennison:1978:SLP

[123] V. L. Bennison and R. I. Soare. Some lowness properties and computational complexity sequences. *Theoretical Computer Science*, 6(3):233–254, June 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Courcelle:1978:RTLa

[124] B. Courcelle. A representation of trees by languages. I. *Theoretical Computer Science*, 6(3):255–279, June 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Knuth:1978:ELS

[125] D. E. Knuth and A. Schonhage. The expected linearity of a simple equivalence algorithm. *Theoretical Computer Science*, 6(3):281–315, June 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Bollman:1978:SDP

[126] D. Bollman and M. Laplaza. Some decision problems for polynomial mappings. *Theoretical Computer Science*, 6 (3):317–325, June 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ehrenfeucht:1978:ELC

[127] A. Ehrenfeucht and G. Rozenberg. E0L languages are not codings or FP0L languages. *Theoretical Computer Science*, 6(3):327–341, June 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

deGroote:1978:VOAa

[128] H. F. de Groote. On varieties of optimal algorithms for the computation of bilinear mappings. I. the isotropy group of a bilinear mapping. *Theoretical Computer Science*, 7(1):1–24, August 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Courcelle:1978:RTLb

[129] B. Courcelle. A representation of trees by languages. II. *Theoretical Computer Science*, 7(1):25–55, August 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wright:1978:UAI

[130] J. B. Wright, E. G. Wagner, and J. W. Thatcher. A uniform approach to inductive posets and inductive closure. *Theoretical Computer Science*, 7(1):57–77, August 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

vanEmdeBoas:1978:SAM

[131] P. van Emde Boas. Some applications of the McCreight-Meyer algorithm in abstract complexity theory. *Theoretical Computer Science*, 7(1):79–98, August 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Verbeek:1978:DRC

[132] R. Verbeek and K. Weihrauch. Data representation and computational complexity. *Theoretical Computer Science*, 7 (1):99–116, August 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Mignotte:1978:IIC

[133] M. Mignotte. Intersection of images of certain recurrent linear series. *Theoretical Computer Science*, 7(1):117–121, August 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

deGroote:1978:VOAb

[134] H. F. de Groote. On varieties of optimal algorithms for the computation of bilinear mappings. II. optimal algorithms for 2*2-matrix multiplication. *Theoretical Computer Science*, 7(2):127–148, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Kobayashi:1978:MFT

[135] K. Kobayashi. On the minimal firing time of the firing squad synchronization problem for polyautomata networks. *Theoretical Computer Science*, 7(2):149–167, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ehrenfeucht:1978:EHS

[136] A. Ehrenfeucht and G. Rozenberg. Elementary homomorphisms and a solution of the D0L sequence equivalence problem. *Theoretical Computer Science*, 7(2):169–183, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Book:1978:LSR

[137] R. V. Book and C. Wrathall. On languages specified by relative acceptance. *Theoretical Computer Science*, 7(2):185–195, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Perrot:1978:VLO

[138] J.-F. Perrot. Varieties of languages and operations. *Theoretical Computer Science*, 7(2):197–210, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Pin:1978:SMW

[139] J. E. Pin. On the syntactic monoid of L* where L is a finite language. *Theoretical Computer Science*, 7(2):211–215, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Muller:1978:FIT

[140] D. E. Muller and F. P. Preparata. Finding the intersection of two convex polyhedra. *Theoretical Computer Science*, 7(2):217–236, October 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

deGroote:1978:VOAc

[141] H. F. de Groote. On varieties of optimal algorithms for the computation of bilinear mappings. III. optimal algorithms for the computation of xy and yx where x, y in $M_2(K)$. *Theoretical Computer Science*, 7(3):239–249, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Schnorr:1978:ILB

[142] C. P. Schnorr. Improved lower bounds on the number of multiplications/ divisions which are necessary to evaluate polynomials. *Theoretical Computer Science*, 7(3):251–261, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Skyum:1978:GEF

[143] S. Skyum. On good ET0L forms. *Theoretical Computer Science*, 7(3):263–272, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hartmanis:1978:LTI

[144] J. Hartmanis. On log-tape isomorphisms of complete sets. *Theoretical Computer Science*, 7(3):273–286, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ibarra:1978:TWS

[145] O. H. Ibarra. On two-way sequential transductions of full semi-AFLs. *Theoretical Computer Science*, 7(3):287–309, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Greibach:1978:RBP

[146] S. A. Greibach. Remarks on blind and partially blind one-way multicounter machines. *Theoretical Computer Science*, 7(3):311–324, December 1978. CO-

DEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Kleiman:1978:ECS

[147] M. Kleiman and N. Pippenger. An explicit construction of short monotone formulae for the monotone symmetric functions. *Theoretical Computer Science*, 7(3):325–332, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Friedman:1978:NNS

[148] E. P. Friedman. A note on non-singular deterministic pushdown automata. *Theoretical Computer Science*, 7(3):333–339, December 1978. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Soisalon-Soininen:1979:CPL

[149] E. Soisalon-Soininen. On the covering problem for left-recursive grammars. *Theoretical Computer Science*, 8(1):1–11, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wand:1979:FPC

[150] M. Wand. Fixed-point constructions in order-enriched categories. *Theoretical Computer Science*, 8(1):13–30, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Bibel:1979:TTG

[151] W. Bibel. Tautology testing with a generalised matrix reduction method. *Theoretical Computer Science*, 8(1):31–44, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Preparata:1979:FIH

[152] F. P. Preparata and D. E. Muller. Finding the intersection of n half-spaces in time O(n log n). *Theoretical Computer Science*, 8(1):45–55, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Johansen:1979:GFN

[153] P. Johansen. The generating function of the number of subpatterns of a D0L sequence. *Theoretical Computer Science*, 8 (1):57–68, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hashiguchi:1979:DPO

[154] K. Hashiguchi. A decision procedure for the order of regular events. *Theoretical Computer Science*, 8(1):69–72, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Apt:1979:RAE

[155] K. R. Apt, J. A. Bergstra, and L. G. L. T. Meertens. Recursive assertions are not enough-or are they? *Theoretical Computer Science*, 8(1):73–87, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Majster:1979:DTA

[156] M. E. Majster. Data types, abstract data types and their specification problem. *Theoretical Computer Science*, 8 (1):89–127, February 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hopcroft:1979:RPD

[157] J. Hopcroft and J.-J. Pansiot. On the reachability problem for 5-dimensional

vector addition systems. *Theoretical Computer Science*, 8(2):135–159, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Prodinger:1979:LOR

[158] H. Prodinger and F. J. Urbanek. Language operators related to init. *Theoretical Computer Science*, 8(2):161–175, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Baker:1979:SST

[159] T. P. Baker and A. L. Selman. A second step toward the polynomial hierarchy. *Theoretical Computer Science*, 8(2): 177–187, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Valiant:1979:CCP

[160] L. G. Valiant. The complexity of computing the permanent. *Theoretical Computer Science*, 8(2):189–201, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Pudlak:1979:CMH

[161] P. Pudlak and F. N. Springsteel. Complexity in mechanized hypothesis formation. *Theoretical Computer Science*, 8 (2):203–225, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hajek:1979:AHC

[162] P. Hajek. Arithmetical hierarchy and complexity of computation. *Theoretical Computer Science*, 8(2):227–237, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hartmanis:1979:RBD

[163] J. Hartmanis. Relations between diagonalization, proof systems, and complexity gaps. *Theoretical Computer Science*, 8(2):239–253, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Morgenstern:1979:EWT

[164] J. Morgenstern. An extension of Winograd's theorem. *Theoretical Computer Science*, 8(2):255–259, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Arnold:1979:NPT

[165] A. Arnold and M. Latteux. A new proof of two theorems about rational transductions. *Theoretical Computer Science*, 8(2):261–263, April 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Bohm:1979:DAI

[166] C. Bohm, M. Dezani-Ciancaglini, P. Peretti, and S. R. D. Rocca. A discrimination algorithm inside λ-β-calculus. *Theoretical Computer Science*, 8(3):271–291, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Beauquier:1979:AGS

[167] J. Beauquier. Algebraic generation and systems of iterative pairs. *Theoretical Computer Science*, 8(3):293–323, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Elgot:1979:SMC

[168] C. C. Elgot and J. C. Shepherdson. A semantically meaningful characteri-

zation of reducible flowchart schemes. *Theoretical Computer Science*, 8(3):325–357, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Winograd:1979:MAE

[169] S. Winograd. On multiplication in algebraic extension fields. *Theoretical Computer Science*, 8(3):359–377, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Dolev:1979:CPG

[170] D. Dolev. Commutation properties and generating sets characterize slices of various synchronization primitives. *Theoretical Computer Science*, 8(3):379–391, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Hindley:1979:DTH

[171] R. Hindley. The discrimination theorem holds for combinatory weak reduction. *Theoretical Computer Science*, 8 (3):393–394, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Autebert:1979:NCD

[172] J.-M. Autebert. A note on the cylinder of deterministic languages. *Theoretical Computer Science*, 8(3):395–399, June 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Plaisted:1979:FVT

[173] D. A. Plaisted. Fast verification, testing, and generation of large primes. *Theoretical Computer Science*, 9(1):1–16, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Duval:1979:RBG

[174] J.-P. Duval. Relationship between global periodicity and repetitions of words. *Theoretical Computer Science*, 9(1):17–26, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Bergstra:1979:CRS

[175] J. Bergstra and J. W. Klop. Church–Rosser strategies in the lambda calculus. *Theoretical Computer Science*, 9(1): 27–38, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Guessarian:1979:PTA

[176] I. Guessarian. Program transformations and algebraic semantics. *Theoretical Computer Science*, 9(1):39–65, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Statman:1979:IPL

[177] R. Statman. Intuitionistic propositional logic is polynomial-space complete. *Theoretical Computer Science*, 9 (1):67–72, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Statman:1979:TCE

[178] R. Statman. The typed λ-calculus is not elementary recursive. *Theoretical Computer Science*, 9(1):73–81, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wegener:1979:SFW

[179] I. Wegener. Switching functions whose monotone complexity is nearly

quadratic. *Theoretical Computer Science*, 9(1):83–97, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Flajolet:1979:NRR

[180] P. Flajolet, J. C. Raoult, and J. Vuillemin. The number of registers required for evaluating arithmetic expressions. *Theoretical Computer Science*, 9(1):99–125, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wechsung:1979:RBS

[181] G. Wechsung and A. Brandstadt. A relation between space, return and dual return complexities. *Theoretical Computer Science*, 9(1):127–140, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Christol:1979:ARP

[182] G. Christol. Almost k-recognisable periodic sets. *Theoretical Computer Science*, 9(1):141–145, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Wegener:1979:CCS

[183] I. Wegener. A counterexample to a conjecture of Schnorr referring to monotone networks. *Theoretical Computer Science*, 9(1):147–150, July 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Tang:1979:CPP

[184] A. Tang. Chain properties in P omega. *Theoretical Computer Science*, 9(2):153–172, August 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Harrison:1979:EGT

[185] M. A. Harrison, I. M. Havel, and A. Yehudai. On equivalence of grammars through transformation trees. *Theoretical Computer Science*, 9(2):173–205, August 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Karhumaki:1979:CDS

[186] J. Karhumaki. On commutative DT0L systems. *Theoretical Computer Science*, 9(2):207–220, August 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Perrin:1979:ERF

[187] D. Perrin. The ergodic representation of finite automata. *Theoretical Computer Science*, 9(2):221–241, August 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ashcroft:1979:GSF

[188] E. A. Ashcroft and F. E. Fich. A generalized setting for fixpoint theory. *Theoretical Computer Science*, 9(2):243–256, August 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Bloom:1979:AGT

[189] S. L. Bloom and R. Tendell. Algebraic and graph theoretic characterizations of structured flowchart schemes. *Theoretical Computer Science*, 9(2):265–286, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Nijholt:1979:SCG

[190] A. Nijholt. Simple chain grammars and languages. *Theoretical Computer Science*, 9(2):287–309, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Inoue:1979:OWS

[191] K. Inoue, I. Takanami, A. Nakamura, and T. Ae. One-way simple multihead finite automata. *Theoretical Computer Science*, 9(2):311–328, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Aubin:1979:MSIa

[192] R. Aubin. Mechanizing structural induction. I. formal system. *Theoretical Computer Science*, 9(2):329–346, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Aubin:1979:MSIb

[193] R. Aubin. Mechanizing structural induction. II. strategies. *Theoretical Computer Science*, 9(2):347–362, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Reutenauer:1979:ASC

[194] C. Reutenauer. On the associated series to certain Lindenmayer systems. *Theoretical Computer Science*, 9(2):363–375, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Ruohonen:1979:SDP

[195] K. Ruohonen. On some decidability problems for HD0L systems with nonsingular Parikh matrices. *Theoretical Computer Science*, 9(2):377–384, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Rodriguez:1979:FCL

[196] F. Rodriguez. Families of closed languages by open brackets. *Theoretical Computer Science*, 9(2):385–398, October 1979. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).