

Database Design, selected Bibliography, references.tex

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**Note:** These references are currently incomplete.

A superset of the references cited in Database Design, 2nd ed. can be found on-line, at  
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# Bibliography

Abbreviations used in the bibliography:

<i>ACM</i>	Association for Computing Machinery (ACM), New York NY.
<i>AFIPS</i>	American Federation of Information Processing Societies, Arlington VA.
<i>ASIS</i>	American Society for Information Science, Washington DC.
<i>BIT</i>	<i>Nordisk Behandlings Informations Tidsskrift</i> , Copenhagen Denmark.
<i>CACM</i>	<i>Communications of the ACM</i> , ACM, New York NY.
<i>CIPS</i>	Canadian Information Processing Society, Toronto Canada.
<i>Comp. J.</i>	<i>Computer Journal</i> of the British Computer Society, London UK.
<i>DE</i>	<i>IEEE CS Data Engineering Conference</i> , Los Angeles CA.
<i>FJCC</i>	<i>Fall Joint Computer Conference</i> (sponsored by AFIPS).
<i>IBM JRD</i>	<i>IBM Journal of Research and Development</i> , Armonk NY.
<i>IBM Sys. J</i>	<i>IBM System Journal</i> , Armonk NY.
<i>IEEE</i>	Institute of Electrical and Electronics Engineers, NY.
<i>IEEE CS</i>	IEEE Computer Society, Silver Spring.
<i>IFIP</i>	International Federation for Information Processing, Geneva Switzerland.
<i>IPSJ</i>	Information Processing Society of Japan, Tokyo Japan.
<i>JACM</i>	<i>Journal of the ACM</i> , ACM, New York NY.
<i>NCC</i>	<i>National Computer Conference</i> (sponsored by AFIPS).
<i>PODS</i>	<i>ACM Conference on Principles of Database Systems</i> .
<i>SIGMOD</i>	ACM Special Interest Group on Management of Data.
<i>SJCC</i>	<i>Spring Joint Computer Conference</i> (sponsored by AFIPS).
<i>TC</i>	<i>IEEE Transactions on Computers</i> .
<i>TOCS</i>	<i>ACM Transactions on Computer Systems</i> .
<i>TODS</i>	<i>ACM Transactions on Database Systems</i> , ACM, New York.
<i>TOPLAS</i>	<i>ACM Transactions on Programming Languages and Systems</i> .
<i>TSE</i>	<i>IEEE Transactions on Software Engineering</i> .
<i>VLDB</i>	<i>Conferences on Very Large Data Bases</i> ; pub. Morgan Kaufman, Los Altos CA.

Some information on these and other periodicals in the database area is provided in the background sections of Chaps. 8 and 11.

- Acton, Forman S. (70): *Numerical Methods That Usually Work*; Harper and Row, 1970, 541 pp.
- Abiteboul, S.<sup>85</sup>: “Disaggregation in Databases”; *JACM*, vol.32 no.1, Jan.1985, pp.79–101.
- Acker, R.D. and Seaman, P.H.<sup>82</sup>: “Modeling Distributed Processing across Multiple CICS/VS Sites”; *IBM Sys.J.*, vol.24 no.4, 1982.
- Addis, T.R.<sup>82</sup>: “A Relation-Based Language Interpreter for a Content Addressable File Store”; *ACM TODS*, vol.7 no.2, Jun.1982, pp.125–163.
- Adiba, M.E. and Lindsay, B.G. (80): “Database Snapshots”; in *VLDB 6*, Lochovsky and Taylor(eds.), 1980, pp.86–91.
- Adiba, M. (81): “Derived Relations: A Unified Mechanism for Views, Snapshots and Distributed Data”; in *VLDB 7*, Zaniolo and Delobel(eds.), 1981, pp.293–305.
- Adiba, M.<sup>81</sup>: “Derived Relations: A Unified Mechanism for Views, Snapshots and Distributed Data”; *VLDB 7*, Zaniolo and Delobel(eds.), Cannes, .1981, pp.293–305.
- Agarwala, A.K. (70): “Learning with a Probabilistic Teacher”; *IEEE Trans. on Information Theory*, vol.IT16 no.4, May 1970.
- Aho, A.V., Hopcroft, E., and Ullman, J.D. (74): *The Design and Analysis of Computer Algorithms*; Addison-Wesley, 1974.
- Aho, A.V. and Ullman, J.D. (79U): “Optimal Partial-Match Retrieval When Fields Are Independently Specified”; *TODS*, vol.4 no.2, June 1979, pp.168–179.
- Alford, M. W.<sup>77</sup>: “A Requirements Engineering Methodology for Real-Time Processing Requirements”; *IEEE TSE*, vol.SE-3 no.1, 1977, pp.60–69.
- Allen, A.O.<sup>75</sup>: “Elements of Queuing Theory for System Design”; *IBM Sys.J.*, vol.14 no.2, 1975, pp.161–187.
- Allen, Roy P.<sup>68</sup>: “OMNIBUS, A Large Data Base Management System”; *Proc. 1968 FJCC*, AFIPS vol.33, Thompson Books, pp.157–164.
- Allen, S.I., Barnett, G.O., and Castleman, P.A.<sup>66</sup>: “Use of a Time-shared General Purpose File Handling System in Hospital Research”; *Proc. IEEE*, vol.54, 1966, pp.1641–1648.
- Allchin, J., Keller, A.M., and Wiederhold, G.<sup>80</sup>: “FLASH: A Language-Independent Portable File Access System”; *ACM-SIGMOD 1980*, May 1980, pp.151–156.
- Allgeyer, K. and Kratzer, K.<sup>87</sup>: “Expert System Based Configuration of VSAM Files”; *IEEE CS DE 3*, LA, Feb.1987.
- Amble, O. and Knuth, D.E.<sup>74</sup>: “Ordered Hash Tables”; *Comp. J.*, vol.17 no.2, Feb.1974, pp.135–142.
- Ammon, G.J., Calabria, J.A., Thomas, D.T.<sup>85</sup>: “A High-Speed, Large Capacity, ‘Jukebox’ Optical Disk System”; *IEEE Computer*, vol.18 no.7, Jul.1985, pp.36–45.
- Anderson, H.D. and Berra, P.B.<sup>77</sup>: “Minimum Cost Selection of Secondary Indexes for Formatted Files”; *ACM TODS*, vol.2 no.1, Mar.1977, pp.68–90.
- Andler, S., et al.<sup>82</sup>: “System-D Distributed System for Availability” ; *VLDB 8*, McLeod and Villasenor(eds.), Mexico City, 1982, pp.33–44.
- ANSI (American National Standards Institute)<sup>86</sup>: *Medium and System-independent File and Data Record Formats for Information Interchange*; ANSI-ISO Standard 8211-1985, American National Standards Inst., New York.
- Anzelmo, Frank D.<sup>71</sup>: “A Data Format for Information System Files”; *IEEE TC*, Jan.1971, vol.C-20, pp.39–43.
- Apers, P.M.G.<sup>81</sup>: “Centralized or Decentralized Data Allocation”; *Proc. Internat. Seminar on Distributed Data Sharing Systems 1*, vanderRiet and Litwin (eds.), Amsterdam, Jun.1981, pp.101–116.
- Apers, P.M.G. and Wiederhold, G.<sup>85</sup>: “Transaction Handling in a Loosely Coupled Environment”; *Proc. ACM-ICS conf.1985*, Florence, Italy: ‘Computing 85, A Broad Perspective of Current Developments’ Bucci and Valle(eds.), pp.25–36, North-Holland 1985.

- Arden, Bruce W.(ed.).<sup>75</sup>: “Interactive Computer Systems”; *IEEE Proc.*, vol.63 no.6, Jun.1975, pp.883–979.
- Armisen,J.P. and Caleca,J.Y.<sup>81</sup>: “A Commercial Back-End Data Base System”; *VLDB 7*, Zaniolo and Delobel(eds.), Cannes, 1981.
- Aron,J.D.<sup>69</sup>: “Information Systems in Perspective”; *ACM C.Surveys*, vol.1 no.4, Dec.1969, pp.213–235.
- Arora,S.R. and Dent,W.T.<sup>69</sup>: “Randomized Binary Search Techniques”; *CACM*, vol.12 no.2, Feb.1969, pp.77–80.
- Arora,S.R. and Gallo,A.<sup>71</sup>: “Optimal Sizing, Loading and Re-loading in a Multi-Memory Hierarchy System”; *Proc.1971 SJCC*, AFIPS vol.38, pp.337–344.
- Astrahan,M.M.,Schkolnick,M.,and Whang,K-Y.<sup>87</sup>: “Approximating the Number of Unique Values without Sorting”; *Information Systems*, vol.12 no.1, 1987.
- Atkinson,M.P. and Morrison,M.<sup>85</sup>: “Procedures as Persistent Objects”; *ACM TOPLAS*, vol.7 no.4, Oct.1985, pp.539–559.
- Atkinson,W. and DeSanctis,P.<sup>83</sup>: *Introduction to VSAM*; Hayden Book Co., 1983.
- Atwood,J.W., MacLeod,A., and Yu,K-C.<sup>82</sup>: “An Empirical Study of a CDC 844-41 Disk Subsystem”; *Perform.Eval.*, vol.2 no.1, May 1982, pp.29–56.
- Atwood,R.C.<sup>72</sup>: “Effects of Secondary Storage I/O Contention on the Performance of an Interactive Information Management System”; *ACM National Conf. 27*, Aug.1972, pp.670–679.
- Baber,R.L.<sup>63</sup>: “Tape Searching Techniques”; *JACM*, vol.10 no.4, Oct.1963, pp.478–486.
- Bachman,C.W.and Williams,S.B.<sup>64</sup>: “A General Purpose Programming System for Random Access Memories”; *Proc.1964 FJCC*, AFIPS vol.26, pp.411–422.
- Bachman,Charles W.<sup>66</sup>: “On a Generalized Language for File Organization and Manipulation”; *CACM*, vol.9 no.3, Mar.1966, pp.225–226.
- Bachman,Charles W.<sup>72</sup>: “The Evolution of Storage Structures”; *CACM*, vol.15 no.7, Jul.1972, pp.628–634.
- Bachman,Charles W.<sup>73</sup>: “The Programmer as a Navigator”; *CACM*, vol.16 no.11, Nov.1973, pp.653–658.
- Baer,Jean-Loup<sup>75</sup>: “Weight-Balanced Trees”; *Proc.1975 NCC*, AFIPS vol.44, pp.467–472.
- Baker,F.T.<sup>72</sup>: “Chief Programmer Team Management of Production Programming”; *IBM Sys.J.*, vol.11 No. 1, 1972, pp.56–72.
- Barbara,D. and GarciaMolina,H.<sup>82</sup>: “How Expensive is Data Replication, An Example”; *IEEE Internat. Conf. on Distr. Comp. Sys.* 3, 1982, pp.263–268.
- Baroody,A.J.,jr. and DeWitt,D.J.<sup>81</sup>: “An Object-Oriented Approach to Database System Implementation”; *ACM TODS*, vol.6 no.4, Dec.1981, pp.576–601.
- Baskett,F. and Smith,A.J.<sup>76</sup>: “Interference in Multiprocessor Computer Systems with Interleaved Memory”; *CACM*, vol.19 no.6, Jun.1976, pp.327–334.
- Batory,D.S.<sup>79</sup>: “On Searching Transposed Files”; *ACM TODS*, vol.4 no.4, Dec.1979, pp.531–544.
- Batory,D.S. and Gotlieb,C.C.<sup>82</sup>: “A Unifying Model of Physical Databases”; *ACM TODS*, vol.7 no.4, Dec.1982, pp.509–539.
- Batteke,J.P.H., Heaps,D.M., and Mercier,M.A.<sup>74</sup>: “Canadian Water Resources Information – A Network Approach”; *Inf. Stor. and Retr.*, vol.10 nos.3,4, Mar.1974, pp.85-99.
- Bayer,R. and McCreight,E.M.<sup>72O,S</sup>: “Organization and Maintenance of Large Ordered Indexes ” and “Symetric Binary B-trees: Data Structure and Maintenance Algorithms”; *Acta Inf.*, vol.1 no.3, Feb.1972, pp.173–189 and no.4, Nov.1972, pp.290–306.
- Bayer,R. and Metzger,J.K.<sup>76</sup>: “On the Encipherment of Search Trees and Random Access Files”; *ACM TODS*, vol.1 no.1, Mar.1976, pp.37–52.

- Bayer, R. and Unterauer, K.<sup>77</sup>: "Prefix B-trees"; *ACM TODS*, vol.2 no.1, Mar.1977, pp.11–26.
- Bays, Carter<sup>73</sup>: "The Reallocation of Hash-Coded Tables"; *CACM*, vol.16 no.1, Jan.1973, pp.11–14.
- Bell, A.E.<sup>83</sup>: "Critical Issues in High Density Magnetic and Optical Storage" ; *Optical Data Storage*, Chen(ed.), Proc. Soc. for Photo-optical Instr. Eng., vol.382, 1983, pp.2-15.
- Bell, A.E.<sup>84</sup>: "Optical Data Storage — A Status Report" ; *Proc. IEEE Symp. on Mass Storage Sys.* 6, 1984, pp.93–98.
- Benner, F.H.<sup>67</sup>: "On Designing Generalized File Records for Management Information Systems"; *Proc. 1967 FJCC*, AFIPS vol.31, pp.291–304.
- Bentley, J.L.<sup>75</sup>: "Multidimensional Binary Search Trees Used for Associative Searching"; *CACM*, vol.18 no.9, Sep.1975, pp.509–517.
- Berlekamp, E.R.(ed.)<sup>74</sup>: *Key Papers in The Development of Coding Theory*; IEEE Press, 1974, 296pp.
- Bernstein, P.A.(ed.)<sup>79</sup>: *Proc. of the ACM SIGMOD Int. Conference*; ACM, NY, 1979.
- Bernstein, P.A., Blaustein, B.T., and Clarke, E.M.<sup>80</sup>: "Fast Maintenance of Semantic Integrity Assertions Using Redundant Aggregate Data"; *VLDB 6*, Lochovsky and Taylor(eds.), Oct.1980, pp.126–136.
- Bernstein, P.A. and Goodman, N.<sup>81</sup>: "Concurrency Control in Distributed Database Systems"; *ACM C. Surveys*, vol.13 no.2, Jun.1981, pp.185–221.
- Berra, Bruce(ed.)<sup>84</sup>: *Proceedings First Internat. Conference on Data Engineering*; Los Angeles CA, IEEE CS, Apr.1984.
- Bhargava, B.(ed.)<sup>81</sup>: *Symp. on Reliability in Distributed Software and Database Systems*; IEEE Pub. 81-CH1632–9, 1981.
- Bhattacharya, C.C.<sup>67</sup>: "A Simple Method of Resolution of a Distribution into Gaussian Components"; *Biometrics*, Mar.1967.
- Bihan, J.L., Esculier, C., LeLann, G., Litwin, W., Gardarin, G., Sedillot, S., and Treille, L.<sup>80</sup>: "SIRIUS: A French Nationwide Project on Distributed Data Bases"; *VLDB 6*, Lochovsky and Taylor(eds.), Montreal, Oct.1980, pp.75–85.
- Billings. John Shaw<sup>1892</sup>: "Mechanical Methods Used in Compiling Data of the 11th U. S. Census, with Exhibition of a Machine"; *Proc. Am. Ass. Adv. of Science*, 1892.
- Bleier, R.E. and Vorhaus, A.H.<sup>68</sup>: "File Organization in the SDC TDMS"; *Information Processing-68*, Proc. 1968 IFIP Congress, North-Holland, pp.F92–F97.
- Boback, A.H. and DellaTorre, E.<sup>75</sup>: *Magnetic Bubbles*; North-Holland — Elseviers, 1975.
- Borr, A.J.<sup>81</sup>: "Transaction Monitoring in ENCOMPASS: Reliable Distributed Transaction Processing"; *VLDB 7*, Zaniolo and Delobel(eds.), Sep.1981, pp.155–165.
- Bose, R.C. and Koch, Gary G.<sup>69</sup>: "The Design of Combinatorial Information Retrieval Systems for Files with Multiple Valued Attributes"; *SIAM J. Appl. Math.*, vol.17 no. 6, Nov.1969, pp.1203–1214.
- Bouros, Michael P.<sup>85</sup>: *Getting into VSAM; An Introduction and Technical Reference*; John Wiley, 1985, 435pp.
- Boyd, D.F. and Krasnow, H.S.<sup>63</sup>: "Economic Evaluation of Management Information Systems"; *IBM Sys.J.*, Mar.1963, pp.2–23.
- Bradley, James<sup>85</sup>: "Use of Mean Distance between Overflow Records to Compute Average Search Lengths in Hash files with Open Addressing"; *Comp. J.*, Aug.1985.
- Brägger, R.P., Dudler, A.M., Rebsamen, J., and Zehnder, C.A.<sup>85</sup>: "GAMBIT: An Interactive Database Design Tool for Data Structures, Integrity Constraints, and Transactions"; *IEEE TSE*, vol.SE-11 no.7, Jul.1985, pp.574–583.
- Brainerd, W.(ed.)<sup>78</sup>: "FORTRAN 77"; *CACM*, vol.21 no.10, Oct.1978, pp.806–820.

- Bright, H. S. and Enisa, L.<sup>76</sup>: "Cryptography using Modular Software Elements"; *Proc. 1976 NCC*, AFIPS vol.45, pp.113–123.
- BrinchHansen, Per<sup>73</sup>: *Operating System Principles*; Prentice Hall, 1973, 366 pp.
- Brodie, M.L. and Zilles, S.N.<sup>81</sup>: *Data Abstraction, Databases and Conceptual Modelling*; *ACM SIGMOD Record*, vol.11 no.2. Feb.1981; republished as *Perspectives in Conceptual Modelling*; Springer Verlag, 1984.
- Brodie, M.L. and Mylopoulos, J.<sup>86</sup>: *On Knowledge Base Management Systems, Integrating Artificial Intelligence and Database Technologies*; Springer Verlag, Jun.1986.
- Brooks, F.D., jr.<sup>75</sup>: *The Mythical Man-Month: Essays on Software Engineering*; Addison-Wesley, 1975, 195 pp.
- Brown, D.T. and Sellers, F.F., jr.<sup>70</sup>: "Error Correction for IBM 800-bit-per-inch Magnetic Tape"; *IBM JRD*, vol.14 no.4, Jul.1970, pp.384–389.
- Brown, D.T., Eibsen, R.L., and Thorn, C.A.<sup>72</sup>: "Channel and Direct Access Device Architecture"; *IBM Sys.J.*, vol.11 no.3, 1972. pp.186–199.
- Brown, M., Kolling, K., and Taft, E.<sup>85</sup>: "The ALPINE File System"; *ACM TCS*, vol.3 no.4, Nov.1985, pp.261–293
- Browne, P.S.(ed.)<sup>79</sup>: *Security, Checklist for Computer Center Self-Audits*; Best Practices Series, AFIPS, Arlington VA, 1979.
- Buchholz, Walter<sup>63</sup>: "File Organization and Addressing"; *IBM Sys.J.*, vol.2 no.2, Jun.1963, pp.86–111.
- Buchholz, Walter<sup>69</sup>: "A Synthetic Job for Measuring System Performance"; *IBM Sys.J.*, vol.8 no.4, 1969, pp.309–318.
- Buneman, O.P. and Clemons, E.K.<sup>79</sup>: "Efficiently Monitoring Relational Databases"; *ACM TODS*, vol.4 no.3, Sep.1979, pp.368–382.
- Burge, W.H. and Konheim, A.G.<sup>71</sup>: "An Accessing Model"; *JACM*, vol.18 no.3, Jul.1971, pp.400–404.
- Burkhard, Walter A.<sup>76,79</sup>: "Hashing and Trie Algorithms for Partial-Match Retrieval" and "Partial-Match Hash Coding: Benefits of Redundancy"; *ACM TODS*, vol.1 no.2, 1976, pp.175–187 and vol.4 no.2, Jun.1979, pp.228–239.
- Burkhard, Walter A.<sup>83</sup>: "Interpolation-based Index Maintenance"; *BIT*, vol.23 no.3, 1983, pp.274–294.
- Burkhard, W.A., Martin, B.E., and Paris, J-F.<sup>87</sup>: "The GEMINI Replicated File System Test-bed"; *IEEE CS DE 3*, LA, Feb.1987.
- Bush, Vannevar<sup>45</sup>: "As We May Think"; *The Atlantic Monthly*, vol.176 no.1, Jan.1945, pp.110–108, reprinted in Kochen<sup>67</sup>.
- Cameron, J.R.<sup>86</sup>: "An Overview of JSD"; *IEEE TSE*, vol.SE-12 no.2, 1986, pp.222–240.
- Canaday, R.H., Harrison, R.D., Ivie, E.L., Ryder, J.L., and Wehr, L.A.<sup>74</sup>: "A Back-end Computer for Data Base Management"; *CACM*, vol.17 no.10, Oct.1974, pp.575–582.
- Cardenas, Alfonso F.<sup>73</sup>: "Evaluation and Selection of File Organization - A Model and a System"; *CACM*, vol.16 no.9, Sep.1973, pp.540–548.
- Cardenas, A. F. and Sagamang, J. P.<sup>77</sup>: "Doubly-Chained Tree Data Base Organization - Analysis and Design Strategies"; *Comput.J.*, vol.10 no.1, 1977, pp.15–26.
- Cardenas, A.F.<sup>84</sup>: *Data Base Management Systems*, 2nd ed.; Allyn and Bacon, 1984.
- Carlson, C.R. and Arora, A.K.<sup>85</sup>: "Towards the Next Generation of Data Modeling Tools"; *IEEE TSE*, vol.SE-11 no.9, Sep.1985, pp.966–970.
- Carrol, John M.<sup>72</sup>: "Snapshot 1971 - How Canada Organizes Information about People"; *Proc. 1972 FJCC*, AFIPS vol.41, pp.445–452.
- Casey, R.G.<sup>73</sup>: "Design of Tree Networks for Distributed Data"; *Proc. NCC 1973*, AFIPS vol.42, pp.251–257.

- Ceri, S. Pelagatti, G. , and Bracchi, G.<sup>81</sup>: “Structured Methodology for Designing Static and Dynamic Aspects of Database Applications”; *Information Systems*, vol.6 no.1, Jan.1981.
- Ceri,S., Negri,M., and Pelagatti,G.<sup>82</sup>: “Horizontal Data Partitioning in Database Design”; *ACM-SIGMOD 82*, Schkolnick(ed.), Orlando FL, Jun.1982.
- Ceri,S., Navathe,S., and Wiederhold,G.<sup>83</sup>: “Distribution Design of Logical Database Schemas”; *IEEE TSE*, vol.SE-9 no.4, Jul.1983, pp.487–563.
- Ceri,S.and Pelagatti,G.<sup>84</sup>: *Distributed Database Design: Principles and Systems*; McGraw-Hill, 1984.
- Chamberlin,D.D.<sup>76</sup>: “Relational Data-Base Management Systems”; *ACM C.Surveys*, vol.8 no.1, Mar.1976, pp.43–66.
- Chan,A., Dayal,U., Fox,S., Goodman,N., Ries,D.R., and Skeen,D.,<sup>83</sup>: “Overview of an ADA Compatible Distributed Database Manager”; *ACM-SIGMOD 83*, San Jose, May 1983, pp.228–237.
- Chang,J.M. and Fu,K.S.<sup>81</sup>: “Extended K-d Tree Database Organization: A Dynamic Multiattribute Clustering Method”; *IEEE TSE*, vol.SE-7 no.3, May 1981, pp.284–290.
- Chang,S.K. and Cheng,W.H.<sup>80</sup>: “A Methodology for Structured Database Decomposition”; *IEEE TSE*, vol.SE-6 no.2, Mar.1980.
- Chang,S.K. and Liu,A.<sup>82</sup>: “File Allocation in a Distributed Database”; *Internat. Journal of Computer and System Sciences*, vol.11 no.5, 1982, pp.325–340.
- Chapin, Ned<sup>68</sup>: *360 Programming in Assembly Language*; McGraw-Hill, 1968, 532 pp.
- Chapin,Ned<sup>69</sup>: “Common File Organization Techniques Compared”; *Proc. 1969 FJCC*, AFIPS vol.35, pp.418–422.
- Charles,William R.<sup>73</sup>: “Some Systems Should Not Use Paired File Techniques”; *Data Management*, Sep.1973, pp.33–37.
- Chen, Peter P.S.<sup>73</sup>: “Optimal File Allocation in Multi-Level Storage Systems”; *Proc. 1973 NCC*, AFIPS vol.42, pp.227–282.
- Chen,P.P.S. and Akoka,J.<sup>80</sup>: “Optimal Design of Distributed Information Systems”; *IEEE TC*, vol.C-29 no.12, Dec.1980, pp.1068-1081.
- Cheng,P.S.<sup>69</sup>: “Trace Driven System Modelling”; *IBM Sys.J.*, vol.8 no.4, 1969, pp.280–289.
- Cheng,W.K. and Belford,G.G.<sup>80</sup>: “Update Synchronization in Distributed Databases”; *VLDB 6*, Lochovsky and Taylor(eds.), Montreal, Oct.1980, pp.301–308.
- Cheriton, D.G. and Zwaenepoel,W.<sup>83</sup>: “The Distributed v Kernel and Its Performance for Diskless Workstations”; *ACM Symp. on Operating Systems Principles 9*, Bretton Woods NH, Oct.1983.
- Cheung,T-Y.<sup>82</sup>: “Estimating Block Accesses and Number of Records in File Management”; *CACM*, vol.25 no.7, Jul.1982, pp.484–487.
- Chi,C.S.<sup>82</sup>: “Advances in Computer Mass Storage Technology”; *IEEE Computer*, May 1982, pp.60–74.
- Christodoulakis,Stavros<sup>83</sup>: “Estimating Record Selectivities”; *Information Systems*, vol.8 no.2, Jun.1983.
- Christodoulakis,Stavros<sup>84</sup>: “Implications of Certain Assumptions in Data Base Performance Evaluation”; *ACM TODS*, vol.9 no.2, Jun.1984, pp.163–186.
- Chu,W.W.<sup>69</sup>: “Optimal File Allocation in a Multiple Computer System”; *IEEE TC*, vol. C-18 no.10, Oct.1969, pp.885–888.
- Chu,W.W.and Hurley,P.<sup>82</sup>: “Optimal Query Processing for Distributed Database Systems”; *IEEE TC. vol.C-31 no.9*, Sep.1982, pp.835–850.
- Chu,W.W.. and Hellerstein,J.<sup>85</sup>: “The Exclusive-Writer Approach to Updating Replicated Files in Distributed Processing Systems”; *IEEE TC. vol.C-34 no.6*, Jun.1985.

- Clark, W.A.<sup>66</sup>: "The Functional Structure of OS/360: Part III Data Management"; *IBM Sys.J.*, vol.5 no.1, 1966, pp.30–51.
- Claybrook, Billy G.<sup>83</sup>: *File Management Techniques*; John Wiley, 1983.
- Codd, E.F.<sup>70</sup>: "A Relational Model of Data for Large Shared Data Banks"; *CACM*, vol.13 no.6, Jun.1970, pp.377–387.
- Codd, E.F. and Dean, A.L. (eds.)<sup>71</sup>: *Data Description Access and Control*; ACM, 1971.
- Coffman, E.G., jr.<sup>69</sup>: "Analysis of a Drum Input-Output Queue under Scheduled Operation in a Paged Computer System"; *JACM*, vol.16 no.1, Jan.1969, pp.73–90.
- Coffman, E.G., jr., Klimko, L.A., and Ryan, B.<sup>72</sup>: "An Analysis of Seek Times in Disk Systems"; *SIAM J. on Comp.*, vol.1 no.3, 1972, pp.269–279.
- Coffman, E.G., jr., Gelenbe, E., and Plateau, B.<sup>81</sup>: "Optimization of the Number of Copies in a Distributed Data Base"; *IEEE TSE*, vol.SE-7 no.1, Jan.1981, pp.78–84.
- Collmeyer, A.J., and Shemer, J.E.<sup>70</sup>: "Analysis of Retrieval Performance for Selected File Organization Techniques"; *Proc. 1970 FJCC*, AFIPS vol.37, pp.201–210.
- Comer, D.<sup>78</sup>: "The Difficulty of Optimum Index Selection"; *ACM TODS*, vol.3 no.4, Dec.1978, pp.440–445.
- Comer, D.<sup>79</sup>: "The Ubiquitous B-tree"; *ACM C.Surveys*, vol.11 no.2, Jun.1979, pp.121–137.
- Comer, D.<sup>81</sup>: "Analysis of a Heuristic for Full Trie Minimization"; *ACM TODS*, vol.6 no.3, Sep.1981, pp.513–537.
- Comer, Douglas<sup>84</sup>: *Operating System Design, the XINU approach*; Prentice Hall, 1984.
- Connors, T.C.<sup>66</sup>: "ADAM — A Generalized Data Management System"; *Proc. 1966 SJCC*, AFIPS vol.28, pp.193–203.
- Conway, R.W., Maxwell, W.L., and Morgan, H.L.<sup>72</sup>: "On the Implementation of Security Measures in Information Systems"; *CACM*, vol.15 no.4, Apr.1972, pp.211–220.
- Coonen, Jerome T.<sup>80</sup>: "An Implementation Guide to a Proposed Standard for Floating Point Arithmetic"; *IEEE Computer*, vol.13 no.1, Jan.1980, pp.68–79.
- Copeland, G.<sup>82</sup>: "What If Mass Storage Were Free"; *IEEE Computer*, vol.15 no.7, Jul.1982, pp.27–35.
- Copeland, G., Khoshafian, S., Smith, M., and Valduriez, P.<sup>86</sup>: "Buffering Schemes for Permanent Data"; *IEEE CS DE 2*, Los Angeles, Feb.1986.
- Cornell, D.W. and Yu, P.S.<sup>87</sup>: "A Vertical Partitioning Algorithm for Relational Databases"; *IEEE CS DE 3*, LA, Feb.1987.
- Cuadra, C.R. and Lake, R. (eds.)<sup>66–77</sup>: *ARIST: Annual Review of Information Science and Technology*; Wiley 1966–1970, vol.1–4, Encyclopedia Britannica, 1971–1973, vol.5–7.; later vols. published by ASIS.
- Czejdo, B., Rusinkiewicz, M., and Embley, D.W.<sup>87</sup>: "An Approach to Schema Integration and Query Formulation in Federated Database Systems"; *IEEE CS DE 3*, LA, Feb.1987.
- Daley, R.C., and Neuman, P.G.<sup>65</sup>: "A General Purpose File System for Secondary Storage"; *Proc. 1965 FJCC*, AFIPS vol.27, pp.213–229.
- Daniell, T.P., Harding, R.C., jr., and Nauckhoff, S.H.<sup>83</sup>: "Dynamic Replication, an Overview"; *Proc. 1983 NCC*, AFIPS vol.52.
- Date, C.J.<sup>85</sup>: *An Introduction to Database Systems*; Addison-Wesley, 2 vols., vol.1 4th ed. 1985.
- Davida, G.I., Wells, D.L., and Kam, J.B.<sup>81</sup>: "A Database Encryption System with Subkeys"; *ACM TODS*, vol.6 no.2, Jun.1981, pp.312–328.
- Davies, A.C.<sup>80</sup>: "The Analogy between Electrical Networks and Flowcharts"; *IEEE TSE*, vol.SE-6 no.4, Jul.1980.
- Davis, Gordon B.<sup>74</sup>: *Management Information Systems, Conceptual Foundations, Structure, and Development*; McGraw Hill, 1974, 481 pp.

- Davis, Gordon B.<sup>82</sup>: "Strategies for Information Requirements Determination"; *IBM Syst.J.*, vol.21 no.1, 1982.
- Davis, Lou<sup>70</sup>: "Prototype for Future Computer Medical Records"; *Comp. and Biomed. Res.*, vol.3 no.5, Oct.1970, pp.539–554.
- Dayal, U. and Hwang, H.Y.<sup>84</sup>: "View Definition and Generalization for Database Integration in a Multibase System"; *IEEE TSE*, vol.SE-10 no.6, Nov.1984, pp.628–645.
- De, P., Haseman, W.D., and Kriebel, C.H.<sup>78</sup>: "Toward an Optimal Design of a Network Database from Relational Descriptions"; *Operations Research*, vol.26 no.5, Sep.-Oct.1978, pp.805–823.
- Dearnley, P.A.<sup>74</sup>: "The Operation of a Self Organising Data Management System"; *Computer J.*, vol.17 no.3, Aug.1974, pp.205–210.
- DeGreene, Kengon B.<sup>73</sup>: *Socio-technical Systems: Factors in Analysis, Design and Management*; Prentice Hall, 1973, 416 pp.
- DeMaine, P.A.D.<sup>71</sup>: "The Integral Family of Reversible Compressors"; *IAG Journal*, vol.4 no.3, 1971, pp.207–219.
- DeMarco, Tom<sup>79</sup>: *Structured Analysis and System Specification*; Prentice Hall, 1979.
- Demolombe, Robert<sup>80</sup>: "Estimation of the Number of Tuples Satisfying a Query Expressed in Predicate Calculus Language"; *VLDB 6*, Oct.1980, Montreal, pp.55–63.
- Demurjian, S.A. and Hsiao, D.K.<sup>87</sup>: "The Multi-Lingual Database System"; *IEEE CS DE 3*, LA, Feb.1987.
- Denning, Peter J.<sup>67</sup>: "Effects of Scheduling on File Memory Operations"; *Proc.1967 SJCC*, AFIPS vol.30, pp.9–21.
- Denning, Peter J.<sup>71</sup>: "Third Generation Computer Systems"; *ACM C. Surveys*, 1971, vol.3 no.4, pp.145–216.
- Denning, Peter J.<sup>72</sup>: "A Note on Paging Drum Efficiency"; *ACM C. Surveys*, vol.4 no.1, Mar.1972, pp.1–3.
- Denning, P.J. and Buzen, J.P.<sup>78</sup>: "The Operational Analysis of Queueing Network Models"; *ACM C. Surveys*, vol.10 no.3, Sep.1978, pp.225–261.
- Dennis, J.B. and vanHorn, E.C.<sup>66</sup>: "Programming Semantics for Multiprogrammed Computations"; *CACM*, vol.9 no.3, Mar.1966, pp.143–155.
- Desmonde, W.H.<sup>64</sup>: *Real Time Data Processing Systems*; Prentice Hall, 1964.
- Deutscher, R.F., Tremblay, R.P, and Sorenson, P.G.<sup>75</sup>: "A Comparative Study of Distribution-Dependent and Distribution-Independent Hashing Functions"; *ACM Pacific-75 Conf.*, SF, Apr.1975, pp.56–61.
- Devor, C., ElMasri, R., and Rahimi, S.<sup>82</sup>: "The Design of DDTs: A Testbed for Reliable Distributed Database Management"; *IEEE Symp. on Reliability in Distributed Software and Database Systems 2*, Wiederhold(ed.), Pittsburgh PA, Jul.1982, pp.150–162.
- DeWitt, D., Chou, H-T., Katz, R., and Klug, T.<sup>85</sup>: Design and Implementation of the Wisconsin Storage System; *Software Practice and Experience*, vol.15 no.10, Oct.1985, pp.943–962.
- Diffie, W., and Hellman, M.E.<sup>76</sup>: "New Directions in Cryptography"; *IEEE Trans. Information Theory*, vol.IT-22 no.6, Nov.1976, pp.644–654.
- Dimsdale, J.J. and Heaps, R.S.<sup>73</sup>: "File Structure for an On-Line Catalog of One Million Titles"; *Journal of Library Automation*, vol.6 no.1 Mar.1973, pp.37–55.
- Dittrich, K.R. and Dayal, U.(eds.)<sup>86</sup>: *Proc. 1986 Internat. Workshop on Object-Oriented Database Systems*; IEEE CS Order no.734, Sep.1986.
- Dittrich, K.R.<sup>87</sup>: "Controlled Cooperation in Engineering Database Systems"; *IEEE CS DE 3*, LA, Feb.1987.
- Dixon, W.J. and Massey, F.J. jr.<sup>69</sup>: *Introduction to Statistical Analysis*, 3rd ed.; McGraw-Hill, 1969, 638 pp.

- Dodd, George G.<sup>66</sup>: “APL - a Language for Associative Data - Handling in PL/1”; *Proc. 1966 FJCC*, AFIPS vol.29, pp.677–684.
- Dodd, George G.<sup>69</sup>: “Elements of Data Management Systems”; *ACM C. Surveys*, vol.1 no. 2, Jun.1969, pp.117–133.
- Dolk, D.R. and Kirsch, R.A.II<sup>87</sup>: “A Relational Information Resource Dictionary System”; *CACM*, vol.30 no.1. Jan.1987. pp.48–60.
- Doty, K.L., Greenblatt, J.D., and Su, S.T.W.<sup>80</sup>: “Magnetic Bubble Memory Architectures for Supporting Associative Searching of Relational Databases”; *IEEE TC. vol.C-29 no. 11*, Nov.1980, pp.957–970.
- Dowdy, L.W. and Foster, D.V.<sup>82</sup>: “Comparative Models of the File Assignment Problem”; *ACM C. Surveys*, vol.14 no.2, Jun.1982, pp.287–313.
- Du, D.H.C., Ghanta, S., and Maly, K., J.<sup>87</sup>: “An Efficient File Structure for Document Retrieval in the Automated Office Environment”; *IEEE CS DE 3*, LA, Feb.1987.
- Du, H.C. and Sobolewski, J.S.<sup>82</sup>: “Disk Allocation for Cartesian Product Files on Multiple-Disk Systems”; *ACM TODS*, vol.7 no.1, Mar.1982, pp.82–101.
- Dunnigan, Mike<sup>84</sup>: “5.25-In. Fixed/Removable Disk Products Resolve Data Integrity Problems”; *Computer Technology Review*, Spring 1984, pp.19–22.
- Dutta, A., Koehler, G., and Whinston, A.<sup>82</sup>: “An Optimal Allocation in a Distributed Processing Environment”; *TIMS*, vol.28 no.8, Aug.1982, pp.83.
- Eade, D.J., Homan, P., and Jones, J.E.<sup>77</sup>: “CICS/VS and its Role in System Network Architecture”; *IBM Sys.J.*, vol.16 no.3, 1977, pp.258–286.
- Easton, A.<sup>73</sup>: *Complex Managerial Decisions Involving Multiple Objectives*; Wiley, 1973.
- Easton, M.C.<sup>69</sup>: “A Streamlined Statistical System for a Medical Computer Center”; *ACM National Conf. 24*, 1969, pp.494–475.
- Effelsberg, W. and Härder, T.<sup>84</sup>: “Principles of Database Buffer Management”; *ACM TODS*, vol.9 no.4, Dec.1984, pp.560–595.
- Eggers, S.J., Olken, F., and Shoshani, A.<sup>81</sup>: “A Compression Technique for Large Statistical Databases”; *VLDB 7*, Zaniolo and Delobel(eds.), Sep.1981, pp.424–433.
- Eisner, M.J. and Severance, D.G.<sup>76</sup>: “Mathematical Techniques for Efficient Record Segmentation in Large Shared Databases”; *JACM*, vol.24 no.4, Oct.1976.
- Ellis, Carla Schlatter<sup>85</sup>: “Concurrency and Linear Hashing”; *ACM-PODS 4*, Mar.1985.
- Ellis, M.E. Katke, W., Olson, J., and Yang, S.C.<sup>72</sup>: “SIMS - An Integrated, User-Oriented Information System”; *Proc. 1972 FJCC*, AFIPS vol.41, pp.1117–1132.
- Epstein, R. and Hawthorne, P.<sup>80</sup>: “Design Decisions for the Intelligent Database Machine”; *Proc. 1980 NCC*, AFIPS vol.49, pp.237–241.
- Eswaran, Kapali P.<sup>74</sup>: “Placement of Records in a File and File Allocation in a Computer Network”; *Information Processing 74*, Proc. IFIP Congress, North-Holland, 1974, pp.304–307.
- Evans, A., jr., Kantowitz, W., and Weiss, E.<sup>74</sup>: “A User Authentication Scheme Not Requiring Secrecy in the Computer”; *CACM*, vol.17 no.8, Aug.1974, pp.437–442.
- Everest, Gordon C.<sup>86</sup>: *Database Management: Objectives, System Functions, and Administration*; McGraw-Hill, 1986, 816 pp.
- Fabry, R.S.<sup>74</sup>: “Capability Based Addressing”; *CACM*, vol.17 no.7, Jul.1974, pp.403–412.
- Fagin, Ronald<sup>78</sup>: “On an Authorization Mechanism”; *ACM TODS*, vol.3 no.3, Sep.1978, pp.310–319.
- Farmer, D.B., King, R., and Meyers, D.A.<sup>85</sup>: “The Semantic Database Constructor”; *IEEE TSE*, vol.SE-11 no.7, Jul.1985, pp.583–591.
- Feinstein, A.R.<sup>70</sup>: “Taxonotics”; *Archives of Internal Medicine*, vol.126, Oct.1970, pp.679–693; Dec.1970, pp.1053–1067.

- Feistel,H.<sup>73</sup>: “Cryptography and Computer Privacy”; *Scientific American*, vol.228 no.5, May 1973, pp.15–23.
- Feldman,J.A. and Rovner,P.D.<sup>69</sup>: “An Algol-Based Associative Language”; *CACM*, vol.12 no.8, Aug.1969, pp.439–449.
- Feller,William<sup>71</sup>: *An Introduction to Probability Theory and Applications*; John Wiley: vol.1, 3rd ed., 1968; vol.2, 2nd ed., 1971.
- Fernandez,E.B, Summers,R., and Wood,C.<sup>81</sup>: *Data Base Security and Integrity*; Addison-Wesley, 1981, 320 pages.
- Ferrari,Domenico<sup>86</sup>: “Considerations on the Insularity of Performance Evaluation”; *IEEE TSE*, vol.SE-12 no.6, Jun.1986, pp.678–683.
- Ferrari,D., Serazzi,G., and Zeigner,A.<sup>83</sup>: *Measurement and Tuning of Computer Systems*; Prentice-Hall, 1983.
- Feustel,E.A.<sup>73</sup>: “On the Advantages of Tagged Architecture”; *IEEE TC*, vol.C-22 no.7, Jul.1973, pp.644–656.
- Files,J.R. and Huskey,H.D.<sup>69</sup>: “An Information Retrieval System Based on Superimposed Coding”; *Proc. 1969 FJCC*, AFIPS vol.35, pp.423–432.
- Fischer,M.J., Griffeth,N.D., and Lynch,N.A.<sup>81</sup>: “Algorithms for Placing Identical Resources in a Distributed System”; *Proc. Int. Symp. on Distributed Data Bases 2*, Litwin(ed.), Paris, Apr.1981.
- Fishman,George S.<sup>67</sup>: “Problems in the Statistical Analysis of Simulation Experiments”; *CACM*, vol.10 no.2, Feb.1967, pp.94–99.
- Flajolet,P. and Martin,G.N.<sup>85</sup>: “Probabilistic Counting Algorithms for Data Base Applications”; *J. of Computer and System Sciences*, vol.31 no.2, Sep.1985, pp.182–209.
- Flajolet,P., Regnier,M., and Sotteau,D.<sup>86</sup>: “Algebraic Methods for Trie Statistics”; *JACM*, vol.33 no.2, Apr.1986, pp.371–407.
- Florentin,J.J.<sup>76</sup>: “Information Reference Coding”; *CACM*, vol.19 no.1, Jan.1976, pp.29–33.
- Flores,Ivan<sup>70</sup>: *Data Structure and Management*; Prentice Hall, 1970.
- Floyd,R.W.<sup>74</sup>: “Permuting Information in Idealized Two-Level Storage”; *Complexity of Computer Computations*, Miller et al(eds.), Plenum NY 1974.
- Fong,E.N., Goldfine,A.H., and Navathe,S. (eds.)<sup>86</sup>: *Data Base Directions: Information Resource Management – Making It Work*; IEEE CS Database Eng. Bull., Jun.1986.
- Franaszek,P. and Robinson,J.T.<sup>85</sup>: “Limitations of Concurrency in Transaction Processing”; *ACM TODS*, vol.10 no.1, Mar.1985, pp.1–28.
- Frank,H.<sup>69</sup>: “Analysis and Optimization of Disk Storage Devices for Time-Sharing Systems”; *JACM*, vol.16 no.4, Oct.1969, pp.602–620.
- Fredkin,E.<sup>60</sup>: “Trie Memory”; *CACM*, vol.39, 1960, pp.490–499.
- Freiberger,W.(ed.)<sup>72</sup>: *Statistical Computer Performance Evaluation*; Academic Press, 1972.
- Freund,J.E.<sup>62</sup>: *Mathematical Statistics*; Prentice Hall, 1962.
- Frey,R., Girardi,S., and Wiederhold,G.<sup>71</sup>: “A Filing System for Medical Research”; *Bio-Medical Computing*, vol.2 no.1, Elseviers, Jan.1971, pp.1–26.
- Friedman, Theodore D.<sup>70</sup>: “The Authorization Problem in Shared Files”; *IBM Sys.J.*, vol.9 no.4, pp.258–280, 1970.
- Friedman, T. D. and Hoffman, L. J.<sup>74</sup>: “Execution Time Requirements for Encipherment Programs”; *CACM*, vol.17 no.8, Aug.1974, pp.445–449.
- Fry,J.P. and Jeris,D.W.<sup>74</sup>: “Towards a Formulation and Definition of Data Reorganization”; *ACM-SIGMOD 74*, Rustin(ed.), 1974, pp.83–100.
- Fuchs,W.K., Wu,K-L., and Abraham,J.A.<sup>87</sup>: “Comparison and Diagnosis of Large Replicated Files”; *IEEE TSE*, vol.SE-13 no.1, Jan.1987.
- Fujitani,Larry<sup>84</sup>: “Laser Optical Disk: The Coming Revolution in On-Line Storage”; *CACM*, vol.27 no.6, Jun.1984, pp.546–554.

- Fuller, S.H.<sup>75</sup>: *Analysis of Drum and Disk Storage Units*; Lecture Notes in CS, vol.31, Goos and Hartmanis(eds.), Springer Verlag, 1975, 283 pp.
- Gallaire, H. and Minker, J.(eds.)<sup>78</sup>: *Logic and Data Bases*; Plenum Press, 1978.
- Gallaire, H., Minker, J., and Nicolas, J.-M.<sup>84</sup>: “Logic and Databases: A Deductive Approach”; *ACM C. Surveys*, vol.16 no.2, Jun.1984, pp.153–185.
- Gambino, T.J., and Gerritsen, R.<sup>77</sup>: “A Database Design Decision Support System”; *VLDB 3*, Merten(ed.), Tokyo, Japan, Oct.1977, pp.534–544.
- GAO (U.S. Government Accounting Office)<sup>80</sup>: *Continued Use of Costly, Outmoded Computers in Federal Agencies Can Be Avoided*; Report to the Congress of the United States, AFMD-81–9, Dec.1980.
- GarciaMolina, Hector<sup>81</sup>: *Performance of Update Algorithms for Replicated Data*; UMI Research Press, Ann Arbor MI, 1981.
- GarciaMolina, H. and Wiederhold, G.<sup>82</sup>: “Read-Only Transactions in a Distributed Database”; *ACM TODS*, vol.7 no.2, Jun.1982, pp.209–234.
- GarciaMolina, H., Germano, F. jr., and Kohler, W.H.<sup>84</sup>: “Debugging a Distributed Computing System”; *IEEE TSE*, vol.SE-10 no.2, Mar.1984, pp.210–219.
- Garg, A.K. and Gotlieb, C.C.<sup>86</sup>: “Order Preserving Key Transformations”; *ACM TODS*, vol.11 no.2, Jun.1986, pp.213–234.
- Gaynor, Jerry<sup>74</sup>: “Determining Access Time for Moving Head Disks”; *Digital Design*, Sep.1974.
- Gentile, R.B. and Lucas, J.R.<sup>71</sup>: “The TABLON Mass Storage System”; *Proc. 1971 SJCC*, AFIPS vol.38, pp.345–356.
- Ghosh, S.P. and Senko, M.E.<sup>69</sup>: “File Organization: On the Selection of Random Access Index Points for Sequential Files”; *JACM*, vol.16 no.4, Oct.1969, pp.569–579.
- Ghosh, Sakti P.<sup>76</sup>: *Data Base Organization for Data Management*; Academic Press, 1976.
- Gifford, D.K.<sup>82</sup>: “Cryptographic Sealing for Information Secrecy and Authentication”; *CACM*, vol.25 no.4, Apr.1982, pp.274–286.
- Gifford, D.K. and Spector, A.<sup>84</sup>: “The TWA Reservation System”; *CACM*, vol.27 no.7, Jul.1984, pp.649–665.
- Gilb, Tom<sup>77</sup>: *Data Engineering*; Studentlitteratur, Lund, Sweden, 1977.
- Gilb, Tom<sup>87</sup>: *Principles of Software Engineering Management*; Addison-Wesley, 1987.
- Gildersleeve, T.R.<sup>71</sup>: *Design of Sequential File System*; Wiley 1971.
- Glantz, R.S.<sup>70</sup>: “SHOEBOX, A Personal File Handling System for Textual Data”; *Proc.1970 FJCC*, AFIPS vol.37, pp.535–545.
- Glinka, L.R., Brugh, R.M., and Ungur, H.J.<sup>67</sup>: “Design through Simulation of a Multiple Access Information System”; *Proc. 1967 FJCC*, AFIPS, vol.31, pp.437–447.
- Goldberg, R.P., and Hassinger, R.<sup>79</sup>: “The Double Paging Anomaly”; *Proc. 1979 NCC*, AFIPS vol.48, 1979, pp.195–199.
- Gopalakrishna, V. and Veni Madhavan, C.E.<sup>80</sup>: “Performance Evaluation of Attribute-Based Tree Organization”; *ACM TODS*, vol.6 no.1, Mar.1980, pp.69–87.
- Gordon, G.<sup>69</sup>: *System Simulation*; Prentice-Hall, 1969.
- Gotlieb, C.C. and Borodin, A.<sup>73</sup>: *Social Issues in Computing*; Academic Press, 1973.
- Gotlieb, C.C.<sup>85</sup>: *The Economics of Computers: Costs, Benefits, Policies, and Strategies*; Prentice-Hall, 1985, 339pp.
- Gould, I.H.<sup>71</sup>: *IFIP Guide to Concepts and Terms in Data Processing*; North-Holland, 1971.
- Graham, G.S.(ed.)<sup>78</sup>: “Queuing Network Models of Computer System Performance”; *ACM C. Surveys*, vol.10 no.3, 1978, pp.219–224.
- Graham, R.M.<sup>68</sup>: “Protection in an Information Processing Utility”; *CACM*, vol.11 no.5, May 1968, pp.365–369.

- Grant, J.<sup>84</sup>: "Constraint Preserving and Lossless Database Transformations"; *Information Systems*, vol.9 no.2, North-Holland, 1984.
- Gray, James N.<sup>78</sup>: "Notes on Data Base Operating Systems"; *Operating Systems*, Bayer, Graham, Seegmüller (eds.), Springer 1978, pp.393–481.
- Gray, James N.<sup>81</sup>: "The Transaction Concept: Virtues and Limitations"; *VLDB 7*, Cannes, France, Sep.1981, pp.144–154.
- Gray, James, N.<sup>86</sup>: "An Approach to Decentralized Computer Systems"; *IEEE TSE*, vol. SE-12 no.6, Jun.1986, pp.684–692.
- Gray, P.M.D., Moffat, D.S., and duBoulay, J.B.H.<sup>85</sup>: "Persistent PROLOG: A Secondary Storage Manager for PROLOG"; *Proc. Appia Workshop on 'Data Types and Persistence'*, Atkinson(ed.), 1985; *Proc. ACM SIGMOD 1985*, Navathe(ed.), 1985, pp.437–443.
- Greenes, R.A., Pappalardo, A.N., Marble, C.M., and Barnett, G.O.<sup>69</sup>: "A System for Clinical Data Management"; *Proc. 1969 FJCC*, AFIPS vol.35, pp.297–305.
- Griffiths, P.P. and Wade, B.W.<sup>76</sup>: "An Authorization Mechanism for a Relational Database System"; *ACM TODS*, vol.1 no.3, Sep.1976, pp.242–255.
- Groner, L.H. and Goel, A.L.<sup>74</sup>: "Concurrency in Hashed File Access"; *Proc. 1974 IFIP Congress*, North-Holland.
- Grosshans, Daniel<sup>86</sup>: *File Systems Design and Implementation*; Prentice Hall, 1986.
- GSA (US General Services Administration)<sup>57,...</sup>: Authorized Federal Supply Schedule Price List; FSC Class 7440, Electronic Data Processing Machines, annually.
- Gudes, E. and Taur, S.<sup>80</sup>: "Experiments with B-tree Reorganization"; *ACM-SIGMOD 1980*, pp.200–206.
- Guibas, L. and Sedgewick, R.<sup>78</sup>: "A Dichromatic Framework for Balanced Trees"; *Proc. IEEE Symposium On Foundations of Computer Science*, 1978.
- Gurski, Aaron<sup>73</sup>: "A Note on the Analysis of Keys for Use in Hashing"; *BIT vol.13 no.1*, 1973, pp.120–122.
- Guttman, A.<sup>84</sup>: "R-Trees: A Dynamic Index Structure for Spatial Searching"; *ACM-SIGMOD*, Jun.1984.
- Hac, A.<sup>87</sup>: "A Performance Model of Concurrency Cona Distributed File System"; *IEEE CS DE 3*, LA, Feb.1987.
- Hagmann, R.B.<sup>86</sup>: "An Observation on Database Buffering Performance Metrics"; *VLDB 12*, Aug.1986.
- Hahn, Bruce<sup>74</sup>: "A New Technique for Compression and Storage of Data"; *CACM*, vol.17 no.8, Aug.1974, pp.434–436.
- Hakola, J. and Heiskanen, A.<sup>80</sup>: "On the Distribution of Wasted Space at the End of File Blocks"; *BIT*, vol.20 no.2, 1980, pp.145–156.
- Hammer, M. and Chan, A.<sup>76</sup>: "Index Selection in a Self-Adaptive Data Base Management System"; *ACM-SIGMOD 76*, Rothnie(ed.), 1976, pp.1–8.
- Hammer, Michael<sup>77</sup>: "Self-Adaptive Data Base Design"; *Proc. 1977 NCC*, AFIPS vol.46, pp.123–129.
- Hammer, M. and Sarin, S.K.<sup>78</sup>: "Efficient Monitoring of Database Assertions"; *ACM-SIGMOD 78*, 1978, pp.159–168.
- Hammer, M. and Niamir, B.<sup>79</sup>: "A Heuristic Approach to Attribute Partitioning"; *ACM-SIGMOD 79*, Bernstein(ed.), pp.93–100.
- Hanan, M. and Palermo, F.P.<sup>63</sup>: "An Application of Coding Theory to a File Address Problem"; *IBM JRD*, vol.7 no.2, Apr.1963, pp.127–129.
- Härder, Theodor<sup>78</sup>: "Implementing a Generalized Access Path Structure for a Relational Database System"; *ACM TODS*, vol.3 no.3, Sep.1978, pp.285–298.
- Harrison, M.S., Ruzzo, W.L., and Ullman, J.D.<sup>76</sup>: "Protection in Operating Systems"; *CACM*, vol.19 no.8, Aug.1976, pp.461–471.

- Hawthorn, P.B. and DeWitt, D.J.<sup>82</sup>: "Performance Analysis of Alternative Database Machine Architectures"; *IEEE TSE*, vol. SE-8 no.1, Jan.1982, pp.61–75.
- Heising, W.P.<sup>63</sup>: "Note on Random Addressing Techniques"; *IBM Sys.J.*, vol.2 no.2, Jun.1963, pp.112–116.
- Held, G. and Stonebraker, M.<sup>78</sup>: "B-Trees Re-examined"; *CACM*, Feb.1978, pp.139–143.
- Helland, P.<sup>86</sup>: "The Transaction Monitoring Facility (TMF)"; *Database Engineering*, vol.3, IEEE CS press 1986.
- Hellerman, H.<sup>73</sup>: *Digital Computer System Principles*; McGraw-Hill, 1973.
- Hellerman, H. and Conroy, T.F.<sup>75</sup>: *Computer Systems Performance*; McGraw-Hill, 1975, 380 pp.
- Hertz, D.B.<sup>69</sup>: *New Power for Management-Computer Systems and Management Science*; McGraw-Hill, 1969.
- Hevner, A.R.<sup>82</sup>: "A Survey of Data Allocation and Retrieval Methods for Distributed Systems"; *IEEE Symp. on Reliability in Distributed Software and Database Systems 2*, Wiederhold(ed.), Pittsburgh PA, Jul.1982, pp.1–10.
- Hibbard, Thomas N.<sup>62</sup>: "Some Combinatorial Properties of Certain Trees with Applications to Sorting and Searching"; *JACM*, vol.9 no.1, 1962, pp.13–28.
- Hill, F.J. and Peterson, G.R.<sup>73</sup>: *Digital Systems: Hardware Organization and Design*; Wiley, 1973.
- Hill, T.R. and Srinivasan, A.<sup>87</sup>: "A Regression Approach to Performance Analysis for the Differential File Architecture"; *IEEE CS DE 3*, LA, Feb.1987.
- Hillier, F.S. and Lieberman, G.J.<sup>67</sup>: *Introduction to Operations Research*; Holden Day, 1967.
- Hillman, D.J. and Kasarda, A.J.<sup>69</sup>: "The LEADER Retrieval System"; *Proc. 1969 SJCC*, AFIPS vol.34, pp.70–74
- Hoagland, A.S., and Rice, R.(eds.)<sup>75</sup>: "Large Capacity Digital Storage Systems"; *IEEE Proceedings*, vol.63 no.8, Aug.1975, pp.1092–1240.
- Hoagland, Albert S.(ed.)<sup>84</sup>: *Mass Storage Systems*; IEEE Computer Society, 1984.
- Hoagland, Albert S.<sup>85</sup>: "Information Storage Technology: A Look at the Future"; *IEEE Computer*, vol.18 no.7, Jul.1985, pp.60–67.
- Hoffman, L.J.<sup>71</sup>: "The Formulary Model for Access Control"; *Proc. 1971 FJCC*, AFIPS vol.39, pp.587–601.
- Hoffman, L.J.<sup>77</sup>: *Modern Methods for Computer Security and Privacy*; Prentice Hall, 1977.
- Hogan, P.D. and Kotlarek, T. L.<sup>87</sup>: "Satellite Data Management for Effective Data Access"; *IEEE CS DE 3*, LA, Feb.1987.
- Holt, G.A. and Stern, H.C.<sup>75</sup>: "Cost-Benefit Evaluation of Interactive Transaction Processing Systems"; *Proc. 1975 NCC*, AFIPS, vol.44, pp.687–694.
- Horowitz, E. and Sahni, S.<sup>78</sup>: *Fundamentals of Computer Algorithms*; Computer Science Press, 1978.
- Hsiao, D.K. and Harary, F.D.<sup>70</sup>: "A Formal System for Information Retrieval from Files"; *CACM*, vol.13 no.2, Feb.1970, pp.67–73; corrigenda in no.3, Mar.1970, pp.266.
- Hu, T.C. and Tucker, A.C.<sup>71</sup>: "Optimal Computer Search Trees and Variable-Length Alphabetic Codes"; *SIAM Jour. Appl. Math.*, vol.21 no.4, Dec.1971, pp.514–532.
- Huang, S-C. and Goel, A.L.<sup>74</sup>: "An Analytical Model for Information Processing Systems"; *Proc. 1974 NCC*, AFIPS vol.43, pp.41–44.
- Huang, S-H.S.<sup>85</sup>: "Height-Balanced trees of Order  $(\beta, \gamma, \delta)$ "; *ACM TODS*, vol.10 no.2, Jun.1985, pp.261–284.
- Huff, Darrel<sup>54</sup>: *How to Lie with Statistics*; Norton, 1954.
- Huffman, D.A.<sup>52</sup>: "A Method for the Construction of Minimim Redundancy Codes"; *Proc. of the IRE*, vol.40, Sep.1952, pp.1098–1101.

- IBM F20-0007<sup>71</sup>: *Analysis of Some Queuing Models in Real Time Systems*, 2nd ed.; IBM Data Processing Division, White Plains NY, 1971.
- IBM GC20-1649<sup>69</sup>: *Student Text: Introduction to IBM-360, Direct Access Storage Devices and Organization Methods*; IBM Data Processing Division, White Plains NY, 1969.
- IBM G320<sup>74</sup>: *Data Security and Data Processing*, 6 Vols., G320-1370 to 1376; IBM Data Processing Division, White Plains NY, 1974.
- Inglis, J. and Dee, E.G.<sup>73</sup>: "Flexibility of Block-length for Magnetic Files"; *Comp. J.*, vol.16 no.4, Nov.1973, pp.303–307.
- Inglis, J.<sup>74</sup>: "Inverted Indexes in Multi-list Structures"; *Comp. J.*, vol.17 no.1, Feb.1974, pp.54–63.
- Inmon, W.H. and Bird, T.J., jr.<sup>86</sup>: *The Dynamics of Data Base*; Prentice-Hall, 1986, 394pp.
- Inmon, William H.<sup>86</sup>: "Stalking the Elusive Maximum Transaction Rate"; *Data Management*, Jan.1986.
- Iyer, R.K., Butner, S.E., and McCluskey, E.J.<sup>82</sup>: "A Statistical Failure/Load Relationship: Results of a Multicomputer Study"; *IEEE Computer*, vol.C-31 no.7, Jul.1982, pp.697–706.
- Jacobs, Barry<sup>85</sup>: *Applied Database Logic, vol.1: Fundamental Database Issues*; Prentice-Hall 1985.
- Jajodia, Sushil<sup>87</sup>: "Managing Replicated Files in Partitioned Distributed Database Systems"; *IEEE CS DE 3*, LA, Feb.1987.
- Jajodia, S. and Meadows, C.A.<sup>87M</sup>: "Mutual Consistency in Decentralized Distributed Systems"; *IEEE CS DE 3*, LA, Feb.1987.
- Javitt, Jonathan<sup>86</sup>: *Computers in Medicine, Applications and Possibilities*; Saunders, 1986.
- Jenq, B-C., Kohler, W.H., and Towsley, D.<sup>87</sup>: "A Queuing Network Model for a Distributed Database Testbed System"; *IEEE CS DE 3*, LA, Feb.1987.
- Jessop, W.H., Noe, J.D., Jacobson, D.M., Baer, J-L, and Pu, C.<sup>82</sup>: "The EDEN Transaction-Based File System"; *IEEE Symp.on Reliability in Distributed Software and Database Systems 2*, Wiederhold(ed.), Pittsburgh PA, Jul.1982, pp.163–170.
- Jewell, W.S.<sup>67</sup>: "A Simple Proof of  $L = \lambda \times w$ "; *Operations Research*, vol.15, 1967, pp.1109–1116.
- Johnson, Clayton T.<sup>75</sup>: "IBM 3850/Mass Storage System"; *Proc. IEEE*, vol.63 no.8, Hoagland(ed.), Aug.1975, pp.1166–1170.
- Johnson, L.R.<sup>61</sup>: "An Indirect Chaining Method for Addressing on Secondary Keys"; *CACM*, May 1961, pp.218–222.
- Judd, D.R.<sup>73</sup>: *Use of Files*; American Elseviers, 1973, 164 pp.
- Kahn, David<sup>67</sup>: *The Codebreakers*; Macmillan, 1967.
- Kahn, G., MacQueen, D.B., and Plotkin, G.(eds.)<sup>84</sup>: *Semantics of Data Types*; Springer Verlag, 391pp, Internat.Symp.Proc., 1984.
- Kaiman, Richard A.<sup>73</sup>: *Structured Information Files*; Wiley-Becker-Hayes, 1973, 161 pp.
- Karlton, P.C., Fuller, S.H., Scroggs, R.E., and Kaehler, E.B.<sup>76</sup>: "Performance of Height-Balanced Trees"; *CACM*, vol.19 no.1, Jan.1976, pp.23–28.
- Katter, R.V. and Pearson, R.M.<sup>75</sup>: "MEDLARS II: A Third Generation Bibliographic Production System"; *Journal of Library Automation*, vol.8 no.2, Jun.1975, pp.87–97.
- Katz, R.H. and Wong, E.<sup>80</sup>: "An Access Path Model for Physical Database Design"; *ACM-SIGMOD*, Chen(ed.), May 1980, pp.22–28.
- Katz, R.H. and Lehman, T.J.<sup>84</sup>: "Database Support for Versions and Alternatives for Large Files"; *IEEE TSE*, vol.SE-10 no.2, Mar.1984, pp.191–200.
- Kearns, J.P. and DeFazio, S.<sup>83</sup>: "Locality of Reference in Hierarchical Database Systems"; *IEEE TSE*, vol.SE-9 no.2, Mar.1983, pp.128–124.

- Keehn, D. and Lacy, J.<sup>74</sup>: "VSAM Data Set Design Parameters"; *IBM Sys. J.*, vol.3, 1974, pp.186–202.
- Kelton, W. David<sup>85</sup>: "Transient Exponential-Erlang Queues and Steady-State Simulation"; *CACM*, vol.28 no.7, Jul.1985, pp.741–749.
- Kent, William<sup>78</sup>: *Data and Reality, Basic Assumptions in Data Processing Reconsidered*; North-Holland, 1978.
- Kerr, Douglas S.(ed.)<sup>75</sup>: *Proc. of the Internat. Conf. on Large Databases*; ACM, 1975.
- Kerschberg, Larry(ed.)<sup>86</sup>: *Expert Database Systems*; Benjamin-Cummings, Jan.1986.
- Kim, Michelle Y.<sup>86</sup>: "Synchronized Disk Interleaving"; *IEEE TC*, Vol. C-35 no.11, Nov.1986.
- King, J.L. and Schrems, E.L.<sup>78</sup>: "Cost-Benefit Analysis in Information Systems Development and Operation"; *ACM C. Surveys*, vol.10 no.1, Mar.1978, pp.19–24.
- King, J.M.<sup>81</sup>: *Evaluating Data Base Management Systems*; VanNostrand-Reinhold, NY, 1981, 275 pp.
- King, W.F.III(ed.)<sup>75</sup>: *Internat. Conf. on Management of Data*; ACM-SIGMOD 75, ACM 1975.
- King, W.F.III<sup>80</sup>: "Relational Database Systems, Where Do We Stand Today?"; *Information Processing 80*, Proc. 1980 IFIP Congress, North-Holland. 1980.
- Kitsuregawa, M. and Miki, T.<sup>87</sup>: "Functional Disk System for Relational Database"; *IEEE CS DE 3*, Feb.1987.
- Kiviat, P.J., Villanueva, R., and Markowitz, H.M.<sup>69</sup>: *The Simscript II Programming Language*; Prentice Hall, 1969.
- Kleinrock, Leonard<sup>75</sup>: *Queuing Systems, vol.1: Theory*; Wiley 1975, 417 pp.
- Knight, K.E.<sup>68</sup>: "Evolving Computer Performance"; *Datamation*, Jan.1968, pp.31–35.
- Knott, Gary D.<sup>75</sup>: "Hashing Functions and Hash Table Storage and Retrieval"; *Comp. J.*, vol.18 no.3, 1975, pp.265–278.
- Knuth, Donald E.<sup>69</sup>: *The Art of Computer Programming, vol.2: Seminumerical Algorithms*; Addison-Wesley, 1969, 634 pp.
- Knuth, Donald E.<sup>73<sup>F</sup></sup>: *The Art of Computer Programming, vol.1 - Fundamental Algorithms*; Addison-Wesley, 2nd ed., 1973, 634 pp.
- Knuth, Donald E.<sup>73<sup>S</sup></sup>: *The Art of Computer Programming, vol.3 - Sorting and Searching*; Addison Wesley, 1973, 722 pp.
- Knuth, D.E.<sup>79</sup>: *T<sub>E</sub>X and METAFONT, New Directions in Typesetting*; Digital Press, 1979.
- Kobayashi, H.<sup>78</sup>: *Modeling and Analysis: An Introduction to Performance Evaluation Methodology*; Addison-Wesley, 1978, 446 pp.
- Kochen, Manfred (ed.)<sup>67</sup>: *The Growth of Knowledge*; Wiley, 1967.
- Kollias, J.G., Stocker, P.M., and Dearnley, P.A.<sup>77</sup>: "Improving the Performance of an Intelligent Data Management System"; *Comp. J.*, vol.20, 1977, pp.302–307.
- Kollias, J.G. and Hatzopoulos, M.<sup>83</sup>: "Some Additional Models and Studies of the File Assignment Problem"; *ACM C. Surveys*, vol.15 no.1, Mar.1983, pp.81–82.
- Konheim, A.G., Mack, M.H., McNeill, R.K., Tuckerman, B., and Waldbaum, G.<sup>80</sup>: "The IPS Cryptographic Programs"; *IBM Sys.J.*, vol.19 no.2, 1980, pp.253–283.
- Korth, H. and Silberschatz, A.<sup>86</sup>: *Database System Concepts*; McGrawHill, 1986.
- Kral, J.<sup>71</sup>: "Some Properties of the Scatter Storage Technique with Linear Probing"; *Comp. J.*, vol.14 no.2, May 1971, pp.145–149.
- Kriegel, H-P. and Seeger, B.<sup>87</sup>: "Multidimensional Dynamic Quantile Hashing is Very Efficient for Non-Uniform Record Distributions"; *IEEE CS DE 3*, LA, Feb.1987.
- Krinos, J.D.<sup>73</sup>: "Interaction Statistics from a Data Base Management System"; *Proc. 1973 NCC*, AFIPS vol.42, 1973, pp.283–290.
- Kroenke, David M.<sup>78</sup>: *DATABASE: A Professional's Primer*; Science Res. Associates, 1978, 323 pp.

- Kroenkhe, David M.<sup>83</sup>: *Business Computer Systems: An Introduction*, 2nd ed.; Mitchell Pub., Santa Cruz CA, 1983, 576pp.
- Kronwal, R.A. and Tarter, M.E.<sup>65</sup>: "Cumulative Polygon Address Calculation Sorting"; *ACM National Conf. 20*, 1965, pp.376–34.
- Kuehler, J.D. and Kerby, H.R.<sup>66</sup>: "A Photo-Digital Mass Storage System"; *Proc.1966 FJCC*, AFIPS, vol.28, pp.753–742.
- LaFue, Gilles M.E.<sup>82</sup>: "Semantic Integrity Dependencies and Delayed Integrity Checking"; *VLDB 8*, McLeod and Villasenor(eds.) 1982, pp.292–299.
- Lampson, Butler W.<sup>73</sup>: "A Note on the Confinement Problem"; *CACM*, vol.16 no.10, Oct.1973, pp.613–615.
- Lampson, B.W., Paul, M., and Siegert, H.J.<sup>81</sup>: *Distributed Systems – Architecture and Implementation*; Lecture Notes in CS, vol.105, Springer-Verlag, 1981, 510 pp.
- Lancaster, F.W.<sup>79</sup>: *Information Retrieval Systems*, 2nd ed.; Wiley-Becker-Hayes, 1979.
- Landauer, W.I.<sup>63</sup>: "The Balanced Tree and its Utilization in Information Retrieval"; *IEEE Trans. in Electronic Computers*, vol.EC-12 no.6, Dec.1963, pp.863–871.
- Landers, T. and Rosenberg, R.L.<sup>82</sup>: "An Overview of MULTIBASE"; *ISDD 2*, Schneider(ed.), North-Holland 1982, pp.153–184.
- Lang, C.A. and Gray, J.C.<sup>68</sup>: *ASP - A Ring Implemented Associative Structure Package*; *CACM*, vol.2 no.8, Aug.1968, pp.550–555.
- Langdon, G.G., jr.(ed.)<sup>79</sup>: "Data Base Machine, An Introduction"; *IEEE TC*, vol.C-28 no.6, Jun.1979.
- Langworthy, George<sup>86</sup>: "Mass Storage"; *Digital Review*, vol.3 no.9, Jun.1986, pp.84–91.
- Larson, J.A. and Rahimi, S.<sup>85</sup>: *Tutorial: Distributed Database Management*; IEEE CS, Jan.1985.
- Larson, Per-Åke<sup>81</sup>: "Analysis of Index-Sequential Files with Overflow Chaining"; *ACM TODS*, vol.6 no.4, Dec.1981, pp.671–680.
- Larson, Per-Åke<sup>83</sup>: "Analysis of Uniform Hashing"; *JACM*, Oct.1983.
- Larson, P-Å. and Kajla, A.<sup>84</sup>: "File Organization: Implementation of a Method Guaranteeing Retrieval in one Access"; *CACM*, vol.27 no.7, Jul.1984, pp.670–677.
- Larson, Per-Åke<sup>85</sup>: "Linear Hashing with Overflow-Handling by Linear Probing"; *ACM TODS*, vol.10 no.1, Mar.1985, pp.75–89.
- Laudon, Kenneth<sup>86</sup>: "Data Quality and Due Process in large Interorganizational Record Systems"; *CACM*, vol.29 no.1, Jan.1986 pp.4–11.
- Lee, D.L.<sup>86</sup>: "A Word Parallel, Bit Serial Signature Processor for Superimposed Coding"; *IEEE CS DE 2*, Los Angeles, Feb.1986.
- Lee, D.T. and Wong, C.K.<sup>80</sup>: "Quintary Trees: A File Structure for Multidimensional Database Systems"; *ACM TODS*, vol.5 no.3, Sep.1980, pp.339–353.
- Lefkowitz, David<sup>74</sup>: *Data Management for On-line Systems*; Hayden Book Co., 1974.
- LeongHong, B.W. and Plagman, B.K.<sup>82</sup>: *Data Dictionary/Directory Systems: Administration, Implementation and Usage*; Wiley-Interscience, 1982
- Leung, C.H.C. and Choo, Q.H.<sup>82</sup>: "The Effect of Fixed-Length Record Implementation on File System Response"; *Acta Informatica*, vol.17, 1982, pp.399–409.
- Leung, C.H.C.<sup>86</sup>: "Dynamic Storage Fragmentation and File Deterioration"; *IEEE TSE*, vol.SE-12 no.3, 1986, pp.436–441.
- Levin, K.D. and Morgan, H.L.<sup>78</sup>: "A Dynamic Optimization Model for Distributed Databases"; *Operations Research*, vol.26 no.5, Sep.-Oct.1978, pp.824–835.
- Levy, M.R.<sup>82</sup>: "Modularity and the Sequential File Update Problem"; *CACM*, vol.25 no.6, Jun.1982, pp.362–369.
- Lewin, M.H.<sup>69</sup>: "A Proposed 'Background Move' Instruction"; *Computer Group News of the IEEE*, vol.2 no.12, Nov.1969, pp.20–21.

- Li,Z.J. and Wong,H.K.T.<sup>87</sup>: “Batched Interpolation Searching on Databases”; *IEEE CS DE 3*, LA, Feb.1987.
- Lide,D.R., jr.<sup>81</sup>: “Critical Data for Critical Needs”; *Science*, vol.212 no.4501, Jun.1981, pp.1343–1349.
- Lim, Pacifico Amarga<sup>86</sup>: *CICS/VS Command Level with ANS Cobol Examples, 2nd ed.*; VanNostrand Reinhold, 1986.
- Lin,C.S., Smith,D.C.P., and Smith,J.M.<sup>76</sup>: “The Design of a Rotating Associative Array Memory for a Relational Database Management Application”; *ACM TODS*, vol.1 no. 1, Mar.1976, pp.53–65.
- Lin,J.J. and Liu,M.T.<sup>82</sup>: “System Design and Performance Evaluation of a Local Data Network for Very Large Distributed Databases”; *IEEE Symp. on Reliability in Distr. Software and Database Sys. 2*, Wiederhold(ed.), Pittsburgh PA, Jul.1982, pp.134–143.
- Lindsay,B. and Gligor,V.<sup>79</sup>: “Migration and Authentication of Protected Objects”; *IEEE TSE*, vol.SE-5, Nov.1979, pp.607–611.
- Lindsay,B. et al<sup>84</sup>: “Computation and Communication in R-\*, A Distributed Database Manager”; *ACM TCS*, vol.2 no.1, Feb.1984, pp.24-38.
- Litwin,W.<sup>80</sup>: “Linear Hashing: A New Tool for File and Table Addressing”; *VLDB 6*, Lochovsky and Taylor(eds.), Montreal, Oct.1980, pp.212–223.
- Litwin,W.<sup>81</sup>: “Trie Hashing”; *ACM-SIGMOD 1981*, pp.19–29.
- Litwin,W.<sup>84</sup>: “MALPHA: A Multi-Database Manipulation Language”; *IEEE DE 1*, Los Angeles, Apr.1984.
- Lochovsky,F.H. and Taylor R.D.(eds.)<sup>80</sup>: *Proc. of the 6th VLDB*; IEEE publication 80 CH-1534-7C, 1980, 435 pp.
- Lohman,G.M. and Muckstadt,J.A.<sup>77</sup>: “Optimal Policy for Batch Operations: Backup, Checkpointing, Reorganization, and Updating”; *ACM TODS*, vol.2 no.3, Sep.1977, pp.209–222.
- Lomet,D.B.<sup>75</sup>: “Scheme for Invalidating Free References”; *IBM JRD*, vol.19 no.1, Jan.1975, pp.26–35.
- Long, P.L. et al<sup>71</sup>: “Large On-Line Files of Bibliographic Data. An Efficient and a Mathematical Prediction of Retrieval Behavior”; *Information Processing-71*, North-Holland, pp.473.
- Loo,J., O’Donald,B.T., and Whiteman,I.R.<sup>71</sup>: “Real Time Considerations for an Airline”; *Proc.1971 SJCC*, AFIPS vol.38, pp.83–92.
- Lorie,Raymond(ed.)<sup>83</sup>: *Engineering Design Applications*; ACM-SIGMOD 83, vol.2, Proc., Database Week, San Jose, May 1983.
- Lowe,Thomas C.<sup>68</sup>: “The Influence of Data Base Characteristics and Usage on Direct Access File Organization”; *JACM*, vol.15 no.4, Oct.1968, pp.535–548.
- Lucas,Henry C., jr.<sup>73</sup>: *Computer Based Information Systems in Organizations*; Science Research Associates, 1973.
- Lucas,Henry C.,jr.<sup>75</sup>: “Performance and the Use of an Information System”; *Management Science*, vol.21, Apr.1975, pp.908–919.
- Lucas,Henry C.,jr.<sup>81</sup>: *The Analysis, Design, and Implementation of Information Systems*; McGraw-Hill 1981, 419 pp.
- Luk,W.S.<sup>83</sup>: “On Estimating Block Accesses in Database Organizations”; *CACM*, vol.26 no.11, Nov.1983, pp.945–947.
- Lum,Vincent Y.<sup>70</sup>: “Multi-Attribute Retrieval with Combined Indexes”; *CACM*, vol.1 no. 11, Nov.1970, pp.660–665.
- Lum,V.Y. and Ling,H.<sup>71L</sup>: “An Optimization Problem on the Selection of Secondary Keys”; *ACM National Conf. 26*, 1971, pp.349–456.

- Lum,V.Y., Yuen,P.S.T., and Dodd,M.<sup>71</sup>: “Key-to-Address Transformation Techniques: A Fundamental Performance Study on Large Existing Formatted Files”; *CACM*, vol.14 no.4, Apr.1971, pp.238–239.
- Lum, V.Y.<sup>73</sup>: “General Performance Analysis of Key-to-Address Transformation Methods Using an Abstract File Concept”; *CACM*, vol.16 no.10, Oct.1973, pp.603–612.
- Lum,V.Y., Senko M.E., Wang,C.P., and Ling,H.<sup>75</sup>: “A Cost Oriented Algorithm for Data Set Allocation in Storage Hierarchies”; *CACM*, vol.18 no.6, Jun.1975, pp.318–322.
- Lynch,C. and Brownrigg,E.B.<sup>81</sup>: “Application of Data Compression Techniques to a Large Bibliographic Database”; *VLDB 7*, Zaniolo and Delobel(eds.), Sep.1981, pp.435–447.
- MacDougall,M.H.<sup>82</sup>: “Computer System Simulation: An Introduction”; *VLDB 8*, McLeod and Villansenor(eds.), Mexico City, Sep.1982.
- Madnick,Stuart E.<sup>75</sup>: “INFOPLEX: Hierarchical Decomposition of a Large Information Management System Using a Microprocessor Complex”; *Proc.1975 NCC*, AFIPS vol. 44, pp.581–586.
- Maier,D. and Ullman,J.D.<sup>81</sup>: “Fragments of Relations”; ACM XP2 Workshop on Relational Database Theory, Jun.1981.
- Maier,David<sup>83</sup>: *The Theory of Relational Databases*; CS Press, 1983, 637 pp.
- Maio,D., Scalas,M.R., and Tiberio,P.<sup>84</sup>: “Dynamic Non-dense Indexes in Relational Databases”; *Information Processing Letters*, Sep.1984.
- Major,J.B.<sup>81</sup>: “Processor, I/O Path, and DASD Configuration Capacity”; *IBM Sys.J.*, vol. 20 no.1, 1981, pp.63–85.
- Maloney,J. and Black,A.<sup>87</sup>: “File Sessions: A Technique and Analysis of Dynamic File Usage Patterns in UNIX”; *IEEE CS DE 3*, LA, Feb.1987.
- Mano,Morris M.<sup>82</sup>: *Computer System Architecture*, 2nd ed.; Prentice-Hall, 1982.
- March,S.T. and Severance,D.<sup>77</sup>: “The Determination of Efficient Record Segmentations and Blocking Factors for Shared Files”; *ACM TODS*, vol.2 no.3, 1977, pp.279–296.
- March,S.T.<sup>83</sup>: “Techniques for Structuring Database Records”; *ACM C. Surveys*, vol.15 no.1, Mar.1983, pp.45–79.
- March,S.T. and Scudder,G.D.<sup>84</sup>: “On the Selection of Efficient Record Segmentations and Backup Strategies for Large Shared Databases”; *ACM TODS*, vol.9 no.3, Sep.1984, pp.409–438.
- Marill,T. and Stern,D.<sup>75</sup>: “The DATA-COMPUTER - A Network Data Utility”; *Proc.1975 NCC*, AFIPS vol.44, AFIPS Press, pp.389–395.
- Marron,B.A. and deMaine, P.A.D.<sup>67</sup>: “Automatic Data Compression”; *CACM*, vol.10 no. 11, Mar.1967, pp.711–715.
- Martin,James<sup>67</sup>: *Design of Real-Time Computer Systems*; Prentice Hall, 1967, 640 pp.
- Martin,James<sup>72</sup>: *Systems Analysis for Data Transmission*; Prentice Hall, 1972, 896 pp.
- Martin,James<sup>73</sup>: *Design of Man-Computer Dialogues*; Prentice Hall, 1973, 496 pp.
- Martin,James<sup>76</sup>: *Principles of Data-Base Management*; Prentice Hall, 1976, 352 pp.
- Martin,James<sup>77</sup>: *Computer Data-Base Organization*, 2nd ed.; Prentice Hall, 1977, 576 pp.
- Martin,James<sup>83</sup>: *Managing the Database Environment*; Prentice-Hall, 1983, 766 pp.
- Martin,T.H. and Parker,E.B.<sup>75</sup>: “Comparative Analysis of Interactive Retrieval Systems”; *ACM-SIGPLAN-SIGIR*, Nance (ed.), 1975 (Proc.of 1973 meeting), pp.75–85.
- Maruyama,K. and Smith,S.E.<sup>76</sup>: “Optimal Reorganization of Distributed Space Disk Files”; *CACM*, vol.19 no.11, Nov.1976, pp.634–642.
- Maryanski,Fred J.<sup>80</sup>: “Backend Database Systems”; *ACM C.Surveys*, vol.12 no.1, Mar.1980, pp.3–25.
- Maryanski,Fred.J.<sup>83</sup>: *Digital Computer Simulation*; Hayden Book Co., 1983.
- Maurer, W.D. and Lewis, T.G.<sup>75</sup>: “Hash Table Methods”; *ACM C. Surveys*, vol.7 no.1, Mar.1975, pp.5–20.

- McCarthy, John L.<sup>82</sup>: “Metadata Management for Large Statistical Databases”; *VLDB 8*, Mexico City, Sep.1982, pp.234–243.
- McCormick, W. T., jr., Schweitzer, P. J., and White, T. W.<sup>72</sup>: “Problem Decomposition and Data Reorganization by a Clustering Technique”; *Oper. Res.*, vol.20 no.5, Sep.1972, pp.993–1009.
- McCreight, E. M.<sup>77</sup>: “Pagination of B\*-trees with Variable-Length Records”; *CACM*, Sep.1977, pp.670–674.
- McEwen, H. E. (ed.)<sup>74</sup>: *Management of Data Elements in Information Processing*; US Dept. of Commerce, COM 74-10700, NTIS, Springfield VA, Apr.1974.
- McFadden, F. R. and Suver, J. D.<sup>78</sup>: “Costs and Benefits of Database Systems”; *Harvard Business Review*, vol.56 no.1, Jan.1978, pp.131-138.
- McFadden, F. R. and Hoffer, J. A.<sup>85</sup>: *Data Base Management*; Benjamin-Cummings, 1985.
- McGee, W. C.<sup>59</sup>: “Generalization - Key to Successful Electronic Data Processing”; *JACM*, vol.6 no.1. Jan.1959. pp.1–23.
- Mealy, George H.<sup>67</sup>: “Another Look at Data”; *Proc. 1967 FJCC*, AFIPS vol.31, pp.525–534.
- Mellen, G. E.<sup>73</sup>: “Cryptology, Computers, and Common Sense”; *Proc. 1973 NCC*, AFIPS vol.42, pp.569–579.
- Merten, A. G. (ed.)<sup>77</sup>: *Proc. of the 3rd VLDB Conf.*; IEEE, 1977, 570 pp.
- Meyer, C. H.<sup>73</sup>: “Design Considerations for Cryptography”; *Proc. 1973 NCC*, AFIPS vol.43, pp.603–606.
- Meyers, Glenford J.<sup>81</sup>: *Advances in Computer Architecture*; Wiley, 1981.
- Michael, G. A.<sup>80</sup>: “An Archival Memory System Specification”; *Fourth IEEE Symp. Mass Storage Systems*, Apr.1980, pp.62–66.
- Michaels, P. C. and Richards, W. J.<sup>75</sup>: “Magnetic Bubble Mass Memory”; *IEEE Trans. Magnetics*, vol.11, Jan.1975, pp.21–25.
- Miller, Arthur R.<sup>71</sup>: *The Assault on Privacy*; The Univ. Michigan Press, Ann Arbor, 1971.
- Miller, J. R.<sup>70</sup>: *Professional Decision Making*; Praeger Publisher, NY, 1970.
- Miller, S. W. and Collins, W. W.<sup>85</sup>: “Towards a Reference Model of Mass Storage Systems”; *IEEE Computer*, vol.18 no.7, Jul.1985, pp.9–22.
- Minoura, T. and Wiederhold, G.<sup>82</sup>: “Resilient Extended True-Copy Token Scheme for a Distributed Database”; *IEEE TSE*, vol. SE-8 no.3, May 1982, pp.173–189.
- Minsky, N.<sup>81</sup>: “Synergistic Authorization in Database Systems”; *VLDB 7*, Zaniolo and Delobel (eds.), Sep.1981, pp.543–552.
- Mohan, C.<sup>84</sup>: *Tutorial: Recent Advances in Distributed Data Base Management*; IEEE CS Press EHO218-8, Dec.1984.
- Molho, L.<sup>70</sup>: “Hardware Aspects of Secure Computing”; *Proc. 1970 SJCC*, AFIPS vol.36, pp.135–141.
- Morey, R. C.<sup>82</sup>: “Estimating and Improving the Quality of Information in a MIS”; *CACM*, vol.15 no.5, May 1982, pp.337–342.
- Morgan, Howard Lee<sup>74</sup>: “Optimal Space Allocation on Disk Storage”; *CACM*, vol.11 no.3, Mar.1974, pp.139–142.
- Morgan, H. L. and Levin, K. D.<sup>77</sup>: “Optimal Program and Data Locations in Computer Networks”; *CACM*, vol.20 no.5, May 1977, pp.315–322.
- Moroney, M. J.<sup>56</sup>: *Facts from Figures*, 3rd ed.; Pelican Books, 1956, 472 pp.
- Morris, R.<sup>68</sup>: *Scatter Storage Techniques*; *CACM*, vol.1 no.1, Jan.1968, pp.38–44.
- Mullin, James K.<sup>71</sup>: “Retrieval-Update Speed Trade-offs Using Combined Indexes”; *CACM*, vol.14 no.12, Dec.1971, pp.775–776.
- Mullin, James K.<sup>72</sup>: “An Improved Indexed-Sequential Access Method Using Hashed Overflow”; *CACM*, vol.15 no.5, May 1972, pp.301–307.

- Mulvany,R.B.<sup>74</sup>: “Engineering Design of a Disk Storage Facility with Data Modules”; *IBM JRD*, vol.18 no.6, Nov.1974, pp.489–505.
- Navathe,S.B. and Fry, J.P.<sup>76</sup>: “Restructuring for Large Data Bases: Three Levels of Abstraction”; *ACM TODS*, vol.1 no.1, Mar.1976, pp.138–158.
- Navathe,S., Ceri,S., Wiederhold,G., and Dou,J-L.<sup>84</sup>: “Vertical Partitioning for Physical and Distribution Design of Databases”; *ACM TODS*, vol.9 no.4, Dec.1984, pp.680–710.
- NBS (US National Bureau of Standards)<sup>74</sup>: *Guidelines for Automatic Data Processing Physical Security and Risk Management*; NBS-FIPS pub.31, Jun.1974, 92 pp.
- Needham,Roger M.<sup>72</sup>: “Protection Systems and Protection Implementation”; *Proc. 1972 FJCC*, AFIPS vol.41, pp.571–578.
- Needham,R.M. and Schroeder,M.D.<sup>78</sup>: “Using Encryption for Authentication in Large Networks of Computers”; *CACM*, vol.21 no.12, Dec.1978, pp.993–999.
- Neuhold,E.J.(ed.)<sup>76</sup>: *Modelling in Data Base Management Systems*; North-Holland 1976.
- Neuhold,E.J. and Walter,B.<sup>82</sup>: “An Overview of the Architecture of the Distributed Database System POREL”; *Proc. Int. Symp. on Distributed Data Bases 2*, Schneider(ed.), North-Holland 1982., pp.247-289.
- Nevaleinen,O. and Vesterinen,M.<sup>77</sup>: “Determining Blocking Factors for Sequential Files by Heuristic Methods”; *Computer J.*, vol.20, 1977, pp.245–247.
- Newell,G.F.<sup>71</sup>: *Applications of Queuing Theory*; Chapman and Hall, 1971.
- Nielsen,Norman R.<sup>67</sup>: “The Simulation of Time Sharing Systems”; *CACM*, vol.10 no.7, Jul.1967, pp.397–412.
- Nievergelt,Jürg<sup>74</sup>: “Binary Search Trees and File Organization”; *ACM C. Surveys*, vol.6 no.3, Sep.1974, pp.195–207.
- Nievergelt,J.,Hinterberger,H.,and Sevcik,K.C.<sup>84</sup>: “The Grid File: An Adaptable Symmetric Multikey File Structure”; *ACM TODS*, vol.9 no.1, Mar.1984, pp.38–71.
- O’Connell,M. L.<sup>71</sup>: “A File Organization Method Using Multiple Keys”; *Proc.1971 SJCC*, AFIPS vol.38, pp.539–544.
- O’Lear,B.T. and Choy,J.H.<sup>82</sup>: “Software Considerations in Mass Storage Systems”; *IEEE Computer*, vol.15 no.7, Jul.1982, pp.36–44.
- O’Neill,J.T.(ed.)<sup>76</sup>: *MUMPS Language Standard*; NBS Handbook 118, Government Printing Office, Washington DC, 1976.
- O’Reagan, Robert T.<sup>72</sup>: “Computer Assigned Codes from Verbal Responses”; *CACM*, vol. 15 no.6, Jun.1972, pp.455–459.
- Orr,Ken<sup>81</sup>: *Structured Requirements Definition*; QED Information Sciences, 1981, 235pp.
- Ousterhout,J.K. et al<sup>85</sup>: “A Trace-driven Analysis of the UNIX 4.2 BSD File System”; *ACM Symp. on Operating Systems Principles 12*, Dec.1985, pp.15–24.
- Overholt,K.J.<sup>73</sup>: “Optimal Binary Search Methods”; *BIT*, vol.13 no.1, 1973, pp.84–91.
- Ozkarahan,E.A., Schuster,S.A. and Sevcik,K.C.<sup>77</sup>: “Performance Evaluation of a Relational Associative Processor”; *ACM TODS*, vol.2 no.2, Jun.1977, pp.175–195.
- Özsu,M.Tamer<sup>85</sup>: “Modeling and Analysis of Distributed Database Concurrency Control Algorithms using an Extended Petri Net Formalism”; *IEEE TSE*, vol.SE-11 no.10, Oct.1985, pp.1225–1240.
- Palvia,P.<sup>85</sup>: “Expressions for Batched Searching of Sequential and Hierarchical Files”; *ACM TODS*, vol.10 no.1, Mar.1985, pp.97-106.
- Papadimitriou,C.H.and Kanallakis,P.C.<sup>84</sup>: “On Concurrency Control by Multiple Versions”; *ACM TODS*, vol.9 no.1, Mar.1984, pp.89–99.
- Parker,D.B.<sup>81</sup>: *Ethical Conflicts in Computer Science and Technology*; AFIPS, 1981.
- Parkin,A.<sup>74</sup>: “Bringing Cost into File Design Decisions”; *Comp. J.*, vol.18 no.3, 1974, pp.198–199.

- Pechura, M.A. and Schoeffler, J.D.<sup>83</sup>: "Estimating File Access Time of Floppy Disks"; *CACM*, vol.26 no.10, Oct.1983, pp.754–763.
- Petersen, H.E. and Turn, R.<sup>67</sup>: "System Implications of Information Privacy"; *Proc. 1967 SJCC*, AFIPS vol.30, 1967, pp.291–300.
- Peterson, J. and Silberschatz, A.<sup>85</sup>: *Operating System Concepts*, 2nd ed.; Addison-Wesley, 1985.
- Peterson, W.W.<sup>57</sup>: "Addressing for Random Access Storage"; *IBM JRD*, vol.1 no.2, Apr.1957, pp.130–146.
- Peterson, W.W. and Weldon, E.J.<sup>72</sup>: *Error Correcting Codes*; MIT Press 1972, 285 pp.
- Piatetsky-Shapiro, G. and Cornell, C.<sup>84</sup>: "Accurate Estimation of the Number of Tuples Satisfying a Condition"; *SIGMOD 1984*, Yormark(ed.), pp.256–276.
- Piepmeyer, William F.<sup>75</sup>: "Optimal Balancing of I/O Requests to Disk"; *CACM*, vol.18 no.9, Sep.1975, pp.524–527.
- Pierce, J.<sup>61</sup>: *Symbols, Signals, and Noise*; Harper and Row, 1961.
- Popek, G., et al.<sup>82</sup>: "The LOCUS Distributed File System"; *ACM Symp. on Operating Systems Principles 9*, Bretton Woods NH, Oct.1982.
- Powers, M.J., Adams, D.R., and Mills, H.D.<sup>84</sup>: *Computer Information Systems Development: Analysis and Design*; South-Western Pub.Co, Cincinnati OH, 1984, 686 pp.
- Press, W.H., Flannery, B.P., Teukolsky, S.A., and Vetterling, W.T.<sup>86</sup>: *Numerical Recipes, The Art of Scientific Computing*; Cambridge Univ.Press, 1986, 818 pp.
- Prywes, N.S. and Gray, H.J.<sup>59</sup>: "The Organization of a Multi-List Type Associative Memory"; *ACM National Conf. 14*, 1959; *IEEE Trans. Comp. and Elec.*, Sep.1963, pp.488–492.
- Pugh, E.W.<sup>71</sup>: "Storage Hierarchies: Gaps, Cliffs, and Trends"; *IEEE Trans. Magnetics*, vol.Mag-7, Dec.1971, pp.810–814.
- Purdy, George B.<sup>74</sup>: "A High Security Log-in Procedure"; *CACM*, vol.17 no.8, Aug.1974, pp.442–445.
- Quarterman, J.S. and Hoskins, J.C.<sup>86</sup>: "Notable Computer Networks"; *CACM*, vol.29 no.10, Oct.1986, pp.932–970.
- Ramamoorthy, C.V. and Chandy, C.V.<sup>70</sup>: "Optimization of Memory Hierarchies in Multi-programmed Systems"; *JACM*, vol.17 no.3, Jul.1970, pp.426–445.
- Ramamoorthy, C.V. and Wah, B.W.<sup>79</sup>: "The Placement of Relations on a Distributed Relational Database"; *IEEE Internat. Conf. on Distr. Comp. Sys. 1*, Huntsville AL, Oct.1979, pp.642–650.
- Rathmann, Peter<sup>84</sup>: "Dynamic Data Structures on Optical Disks"; *IEEE DE 1*, Los Angeles, Apr.1984, pp.175–180.
- Ray-Chaudhuri, D.K.<sup>68</sup>: "Combinatorial Information Retrieval Systems for Files"; *SIAM J. Appl. Math.* vol.16 no.5, 1968, pp.973–992.
- Reisner, P.<sup>77</sup>: "The Use of Psychological Experimentation as an Aid to Development of a Query Language"; *IEEE TSE*, vol.SE-3 no.3, May 1977.
- Reitman, W.R. et al.<sup>69</sup>: "AUTONOTE, a Personal Information and Storage System"; *ACM National Conf. 24*, 1969, pp.67–76.
- Renniger, Clark R.(ed.)<sup>74</sup>: *Approaches to Privacy and Security*; National Bureau of Standards, Wash.DC, Spec. Pub. 404, Sep.1974.
- Riley, M.J.(ed.)<sup>81</sup>: *Management Information Systems*, 2nd ed; Holden-Day, 1981.
- Rivest, R.L.<sup>76</sup>: "Partial Match Retrieval Algorithms"; *SIAM J. on Computing*, vol.5 no.1, 1976, pp.19–50.
- Robey, D. and Farrow, D.<sup>82</sup>: "User Involvement in Information Systems Development: A Conflict Model and Empirical Test"; *Management Science*, vol.28 no.1, Jan.1982, pp.73–85.

- Robinson, T.J.<sup>86</sup>: "Order Preserving Linear Hashing Using Dynamic Key Statistics"; *ACM-PODS*, Cambridge MA, Mar.1986.
- Rochkind, M.J.<sup>82</sup>: "Structure of a Database File System for the UNIX Operating System"; *Bell System Technical Journal*, vol.16 no.9, Nov.1982, pp.2387-2405.
- Rodriguez-Rosell, J.<sup>76</sup>: "Empirical Data Reference Behavior in Data Base Systems"; *IEEE Computer*, vol.9 no.11, Nov.1976, pp.9-13.
- Rosenberg, A.L. and Snyder, L.<sup>81</sup>: "Time- and Space-Optimality in B-Trees"; *ACM TODS*, vol.6 no.1, Mar.1981, pp.174-183.
- Ross, D.T.<sup>77</sup>: "Structured Analysis (SA): A Language for Communicating Ideas"; *IEEE TSE*, vol.SE-3 no.1, 1977, pp.16-34.
- Ross, Ronald G.<sup>81</sup>: *Data Dictionaries and Data Administration*; AMACOM, New York NY, 1981, 454 pp.
- Rothnie, J.B., jr. and Lozano, T.<sup>74</sup>: "Attribute Based File Organization in a Paged Memory Environment"; *CACM*, vol.17 no.2, Feb.1974, pp.63-79.
- Rothnie, J.B., jr. et al<sup>80</sup>: "Introduction to a System for Distributed Databases (SDD-1)"; *ACM TODS*, vol.5 no.1, Mar.1980.
- Ruchte, W.D. and Tharp, Alan L.<sup>87</sup>: "Linear Hashing with Priority Splitting"; *IEEE CS DE 3*, LA, Feb.1987.
- Rudolph, J.A.<sup>72</sup>: "A Production Implementation of an Associative Array Processor — STARAN"; *Proc. 1972 FJCC*, AFIPS vol.41, pp.229-242.
- Rustin, Randall, (ed.)<sup>72</sup>: *Data Base Systems*; Prentice Hall, 1972.
- Saccà, Domenico and Wiederhold, G.<sup>85</sup>: "Database Partitioning in a Cluster of Processors"; *ACM TODS*, vol.10 no.1, Mar.1985, pp.29-56.
- Sacco, Giovanni Maria<sup>82</sup>: "A Mechanism for Managing the Buffer Pool in a Relational Database System Using the Hot Set Model"; *VLDB 8*, Mexico City, Sep.1982, pp.257-262.
- SacksDavis, R. and Ramamohanarao, K.<sup>83</sup>: "A Two Level Superimposed Coding Scheme for Partial Match Retrieval"; *Information Systems*, vol.8 no.4, 1983.
- Safran, C., Sobel, E., Lightfoot, J., and Porter, D.<sup>86</sup>: "A Computer Program for Interactive Searches of a Medical Data Base"; *Medinfo 86*, North-Holland 1986, pp.545-549.
- Sakamoto, G.J.<sup>82</sup>: "Use of DB/DC Data Dictionary to Support Business Systems Planning Studies: An Approach"; *The Economics of Information Processing*: vol.1, Management Perspectives, Goldberg and Lorin (eds.), John Wiley, 1982, pp.127-136.
- Salasin, John<sup>73</sup>: "Hierarchical Storage in Information Retrieval"; *CACM*, vol.16 no.5, May 1973, pp.291-295.
- Salem, K. and GarciaMolina, H.<sup>86</sup>: "Disk Striping"; *IEEE CS DE 2*, Los Angeles, Feb.1986.
- Saltzer, Jerome H.<sup>74</sup>: "Protection and the Control of Information Sharing in Multics"; *CACM*, vol.17 no.7, Jul.1974, pp.388-402.
- Saltzer, J.H. and Schroeder, M.D.<sup>75</sup>: "The Protection of Information in Computer Systems"; *Proc. of the IEEE*, vol.63 no.9, Sep.1975, pp.1278-1308.
- Salza, S., Terranova, M. and Velardi, P.<sup>83</sup>: "Performance Modeling of the DBMAC Architecture"; *Intern. Workshop on Database Machines 3*, Sep.1983, Munich, Missikoff (ed.), Springer Verlag, 1983.
- Salza, S. and Terranova, M.<sup>85</sup>: "Workload Modeling for Relational Database Systems"; *Intern. Workshop on Database Machines 4*, Mar.1985, Bahamas, DeWitt and Boral (eds.), Springer Verlag, 1985.
- Salzberg, Betty Joan<sup>86</sup>: *An Introduction to Data Base Design*; Academic Press, 1986.
- Sarin, S.K., Kaufman, C.W., and Somers, J.E.<sup>86</sup>: "Using History Information to Process Delayed Database Updates"; *VLDB 12*, Aug.1986.

- Satyanarayanan, M.<sup>81</sup>: "A Study of File Sizes and Functional Lifetimes"; *ACM Symp. on Operating Systems Principles 8*, ACM Order no.534810, Dec.1981, pp.96–108.
- Savage, P.<sup>85</sup>: "Proposed Guidelines for an Automated Cartridge Repository"; *IEEE Computer*, vol.18 no.7, Jul.1985, pp.49–58.
- Saxton, L.V., Ip, M.Y., and Raghavan, V.V.<sup>83</sup>: "On the Selection of an Optimal Set of Indexes"; *IEEE TSE*, vol.SE-9 no.2, Mar.1983, pp.135–143.
- Schay, G.jr. and Spruth, W.G.<sup>62</sup>: "Analysis of a File Addressing Method"; *CACM*, vol.5 no.8, Aug.1962, pp.459–462.
- Schay, G., jr. and Raver, N.<sup>63</sup>: "A Method for Key-to-Address Transformations"; *IBM JRD*, vol.7 no.2, Apr.1963, pp.121–126.
- Schkolnick, Mario<sup>75</sup>: "The Optimal Selection of Secondary Indices for Files"; *Information Systems*, vol.1, 1975, pp.141–146.
- Schkolnick, M.<sup>77</sup>: "A Clustering Algorithm for Hierarchical Structures"; *ACM TODS*, vol.2 no.1, May 1977, pp.27–44.
- Schkolnick, M. et al<sup>83</sup>: "A Multiprocessor System for High Availability"; *Proc. IEEE COMPUTER Systems and Applications Conference*, San Francisco, 1983.
- Schneider, M.(ed.)<sup>82</sup>: *Proceedings Human Factors in Computer Systems*; Inst. for Science and Technology, NBS, Mar.1982, Gaithersburg MD.
- Scholl, M.<sup>81</sup>: "New File Organizations Based on Dynamic Hashing"; *ACM TODS*, vol.6 no.1, Mar.1981, pp.194–211.
- Schroeder, M.D. and Saltzer, J.<sup>72</sup>: "A Hardware Architecture for Implementing Protection Rings"; *CACM*, vol.15 no.3, Mar.1972, pp.157–170.
- Schroeder, M.D., Birrell, A.D., and Needham, R.M.<sup>84</sup>: "Experience With GRAPEVINE: The Growth of a Distributed System"; *ACM TCS*, vol.2 no.1, Feb.1984, pp.3–23.
- Schwartz, Eugene S.<sup>63</sup>: "A Dictionary for Minimum Redundancy Encoding"; *JACM*, vol.10 no.4, Oct.1963, pp.413–439.
- Seaman, P.H., Lind, R.A., and Wilson, T.L.<sup>66</sup>: "An Analysis of Auxiliary Storage Activity"; *IBM Sys.J.*, vol.5 no.3, 1966, pp.158–170.
- Seaman, P.H. and Soucy, R.C.<sup>69</sup>: "Simulating Operating Systems"; *IBM Sys.J.*, vol.8 no.4, 1969, pp.264–279.
- Selbman, H.K.<sup>74</sup>: "Bitstring Processing for Statistical Evaluation of Large Volumes of Medical Data"; *Methods of Information in Medicine*, vol.13 no.2, Apr.1974, pp.61–64.
- Senko, M.E., Altman, E.B. Astrahan, M.M., and Fehder, P.L.<sup>73</sup>: "Data Structures and Accessing in Data Base Systems"; *IBM Sys.J.*, vol.12 no.1, 1973, pp.30–93.
- Senko, M.E.<sup>77</sup>: "Data Structures and Data Accessing in Data Base Systems Past, Present, Future"; *IBM Sys.J.*, vol.16 no.3, 1977, pp.208–257.
- Sevcik, K.C.<sup>81</sup>: "Data Base System Performance Prediction Using an Analytical Model"; *VLDB 7*, Zaniolo and Delobel(eds.), Sep.1981, pp.182–198.
- Severance, D.G. and Merten, A.G.<sup>72</sup>: "Performance Evaluation of File Organizations through Modelling"; *ACM National Conf. 27*, 1972, pp.1061–1072.
- Severance, D.G. and Lohman, G.M.<sup>76</sup>: "Differential Files: Their Applications to the Maintenance of Large Databases"; *ACM TODS*, vol.1 no.3, Sep.1976, pp.256–367.
- Shannon, C.E. and Weaver, W.<sup>62</sup>: *The Mathematical Theory of Computation*; Bell System Technical Journal, 1948; reprinted by The Univ. of Illinois Press, 1962, 80 pp.
- Sharpe, William F.<sup>69</sup>: *The Economics of Computers*; Columbia Univ.Press, NY, 1969.
- Shaw, David<sup>80</sup>: "A Relational Database Machine Architecture"; *ACM-SIGIR*, vol.XV, Apr.1980, pp.84–95.
- Shneiderman, Ben<sup>73</sup>: "Optimum Data Base Reorganization Points"; *CACM*, vol.16 no.6, Jun.1973, pp.362–365.

- Shneiderman, Ben<sup>74</sup>: "A Model for Optimizing Indexed File Structures"; *Internat. Journal of Computer and Inf. Sciences*, vol.3 no.1, 1974, pp.93-103.
- Shneiderman, B. and Goodman, V.<sup>76</sup>: "Batched Searching of Sequential and Tree Structured Files"; *ACM TODS*, vol.1 no.3, Sep.1976, pp.268-275; comments in vol.10 no.2, Jun.1985, pp.285-287.
- Shneiderman, B.<sup>77</sup>: "Reduced Combined Indexes for Efficient Multiple Attribute Retrieval"; *Information Systems*, vol.1 no.4, 1977, pp.149-154.
- Shneiderman, B.(ed.)<sup>78</sup>: *Databases: Improving Usability and Responsiveness*; Academic Press, NY, 1978.
- Shu, N.C.<sup>87</sup>: "Automatic Data Transformation and Restructuring"; *IEEE CS DE 3*, LA, Feb.1987.
- Shuey, R. and Wiederhold, G.<sup>86</sup>: "Data Engineering and Information Systems"; *IEEE Computer*, Jan.1986, pp.18-30.
- Siler, K.F.<sup>76</sup>: "A Stochastic Evaluation Model for Database Organizations in Data Retrieval Systems"; *CACM*, vol.19 no.2, Feb.1976, pp.84-95.
- Siwec, J.E.<sup>77</sup>: "A High-Performance DB/DC System"; *IBM Sys.J.*, vol.16 no.2, 1977, pp.169-174.
- Skeen, D., Cristian, F., and ElAbbadi, A.<sup>85</sup>: "An Efficient Fault-Tolerant Algorithm for Replicated Data Management"; *ACM-PODS 4*, Mar.1985.
- Skinner, C.E.<sup>69</sup>: "Effects of Storage Contention on System Performance"; *IBM Sys.J.*, vol.8 no.4, 1969, pp.319-333.
- Sklaroff, J.R.<sup>76</sup>: "Redundancy Management Technique for Space Shuttle Computers"; *IBM JRD*, vol.20 no.1, Jan.1976, pp.20-30.
- Slonim, J. et al<sup>82</sup>: "A Throughput Model, Sequential versus Concurrent Accessing in Very Large Data Bases"; *Information Systems*, vol.7 no.1, Mar.1982, pp.65-83.
- Smith, A.J.<sup>81</sup>: "Analysis of Long-Term File Migration Patterns"; *IEEE TSE*, vol.SE-7 no.4, Jul.1981, pp.403-417.
- Smith, A.J.<sup>85</sup>: "Disk Cache - Miss Ratio Analysis and Design Considerations"; *ACM TCS*, vol.3 no.3, Aug.1985, pp.161-203.
- Snedecor, G.W. and Cochran, W.G.<sup>67</sup>: *Statistical Methods*; Iowa State Univ.Press, Ames IO, 1967, 593 pp.
- Socket, G.H.<sup>78</sup>: "A Performance Model for Computer Data-Base Reorganization Performed Concurrently with Usage"; *Operations Res.*, vol.26 no.5, Sep.-Oct.1978, pp.789-804.
- Socket, G.H. and Goldberg, R.P.<sup>79</sup>: "Data Base Reorganization - Principles and Practice"; *ACM C.Surveys*, vol.11 no.4, Dec.1979.
- Solomon, Martin B.<sup>66</sup>: "Economics of Scale and the IBM System/360"; *CACM*, vol.9 no.6, Jun.1966, pp.435-440.
- Solomon, M.K. and Bickel, R.W.<sup>86</sup>: "A Self-Assessment Procedure Dealing with File Processing"; *CACM*, vol.29 no.8, Aug.1986, pp.745-750.
- Sprague, R. H. jr. and Carlson, E. D.<sup>82</sup>: *Building Effective Decision Support Systems*; Prentice-Hall, Feb.1982, 329 pp.
- Sreenivasan, K. and Kleinman, A.J.<sup>74</sup>: "On the Construction of a Representative Synthetic Workload"; *CACM*, vol.17 no.3, Mar.1974, pp.127-133.
- SSA (US Social Security Administration)<sup>57</sup>: Report of Distribution of Surnames in the SS Account Number File; HEW, SSA, Bureau of Old Age and Survivors Insurance, 1957.
- Stahl, Fred A.<sup>73</sup>: "A Homophonic Cipher for Computational Cryptography"; *Proc. 1973 NCC*, AFIPS vol.42, pp.565-568.
- Stanfel, Larry E.<sup>70</sup>: "Tree Structures for Optimal Searching"; *JACM*, vol.17 no.3, Jul.1970, pp.508-517.

- Steel, Tom B., jr.<sup>64</sup>: “Beginnings of a Theory of Information Handling”; *CACM*, Feb.1964, pp.97–103.
- Sterling, T.D.<sup>74,75</sup>: “Guidelines for Humanizing Computerized Information Systems, A Report from Stanley House”; *CACM*, vol.17 no.11, Nov.1974, pp.609–613; *Science*, vol.190 no.4220, 19 Dec.1975, pp.1168–1172.
- Stocker, P.M.<sup>77</sup>: “Storage Utilization in a Self-Organizing Data Base”; *Proc. 1977 NCC*, AFIPS vol.46, pp.119–122.
- Stone, Harold S.<sup>72</sup>: *Introduction to Data Structures and Computer Organization*; McGraw-Hill, 1972, 1974.
- Stone, H.S. and Fuller, S.F.<sup>73</sup>: “On the Near-Optimality of the Shortest-Access-Time-First Drum Scheduling Discipline”; *CACM*, vol.16 no.6, Jun.1973, pp.352–353.
- Stone, Harold S.(ed.)<sup>75</sup>: *Introduction to Computer Architecture*; SRA, Palo Alto 1975.
- Stonebraker, Michael<sup>74</sup>: “The Choice of Partial Inversions and Combined Indices”; *Journal of Computer and Information Science*, Jun.1974, pp.167–188.
- Stonebraker, M., et al.<sup>79</sup>: “Concurrency Control and Consistency of Multiple Copies of Data in Distributed INGRES”; *IEEE TSE*, vol.SE-5 no.3, May 1979, pp.188–194.
- Stonebraker, Michael<sup>80</sup>: “Retrospection on a Data Base System”; *ACM TODS*, vol.5 no.2, Jun.1980, pp.225–240.
- Stonebraker, Michael<sup>81</sup>: “Operating System Support for Database Management”; *CACM*, vol.14 no.7, Jul.1981.
- Stonebraker, Michael(ed.)<sup>85</sup>: *The INGRES Papers: Anatomy of a Relational Database System*; Addison-Wesley, 1985.
- Stover, R.F. and Krishnaswamy, S.<sup>73</sup>: “Ensuring Input Data Integrity in a High-Volume Environment”; *Proc. 1973 NCC*, AFIPS vol.42, pp.M54–M59.
- Streeter, D.N.<sup>73</sup>: “Centralization or Dispersion of Computing Facilities”; *IBM Sys.J.*, vol.12 no.3, 1973, pp.283–301.
- Stroustrup, B.<sup>86</sup>: *The C++ Programming Language*; Addison-Wesley, 1986.
- Studer, Rudi<sup>80</sup>: “A Dialogue Interface for Data Base Applications”; *VLDB 6*, Lochovsky and Taylor(eds.), Oct.1980, pp.167–182.
- Su, S.Y.W. et al<sup>80</sup>: “Database Machines and Some Issues on DBMS Standards”; *Proc. 1980 NCC*, AFIPS vol.49, pp.191–208.
- Sussenguth, E.H.<sup>63</sup>: “Use of Tree Structures for Processing Files”; *CACM*, vol.6 no.5, May 1963, pp.272–279.
- Svobodova, Liba<sup>84</sup>: “File Servers for Network-Based Distributed Systems”; *ACM C.Surveys*, vol.16 no.4, Dec.1984, pp.353–398.
- Symons, C.R. and Tijsma, P.<sup>82</sup>: “A Systematic and Practical Approach to the Definition of Data”; *Computer J.*, vol.25 no.4, Nov.1982, pp.410–422.
- Tanenbaum, A.S.<sup>81</sup>: *Computer Networks*; Prentice Hall, 1981, 517 pp.
- Tang, Donald T. and Chien, Robert T.<sup>69</sup>: “Coding for Error Control”; *IBM Sys.J.*, vol.8 no.1, Mar.1969, pp.48–80.
- Teichrow, Daniel(ed.)<sup>71</sup>: “Education Related to the Use of Computers in Organizations”; *CACM*, Sep.1971, vol.14 no.9, pp.573–588.
- Teichrow, D. and Hershey, E.A.<sup>77</sup>: “PSL/PSA: A Computer Aided Technique for Structured Documentation and Analysis of Information Processing Systems”; *IEEE TSE*, vol. SE-3 no.1, 1977, pp.41–48.
- Teng, J.Z. and Gumaer, R.A.<sup>84</sup>: “Managing IBM Database 2 Buffers to Maximize Performance”; *IBM Sys.J.*, vol.23 no.2, Jul.1984, pp.211–218.
- Teorey, T.J. and Pinkerton, T.B.<sup>72</sup>: “A Comparative Analysis of Disk Scheduling Policies”; *CACM*, vol.15 no.3, 1972, pp.177–184.

- Teorey, Toby J.<sup>78</sup>: “General Equations for Idealized CPU-I/O Overlap Configurations”; *CACM*, vol.21 no.6, Jun.1978, pp.500–507.
- Teorey, T.J. and Fry, J.P.<sup>82</sup>: *Design of Database Structures*; Prentice-Hall, 1982.
- Terdiman, J.B.<sup>70</sup>: “Mass Random Storage Devices and Their Application to a Medical Information System (MIS)”; *Comp.in Biomedical Res.*, vol.3 no.5, Oct.1970, pp.518.
- Thiele, A.A.<sup>69</sup>: “The Theory of Cylindrical Magnetic Domains”; *Bell System Journal*, vol. 48, 1969, pp.3287–3335.
- Thomas, D.A., Pagurek, B., and Buhr, R.J.<sup>77</sup>: “Validation Algorithms for Pointer Values in DBTG Databases”; *ACM TODS*, vol.2 no.4, Dec.1977, pp.352–369.
- Tichy, Walter F.<sup>82</sup>: “Design Implementation and Evaluation of a Revision Control System”; *Proc. 6th Int. Conf. Software Eng.*, Tokyo, Sep.1982.
- Trivedi, K.S. and Sigmon, T.M.<sup>81</sup>: “Optimal Design of Linear Storage Hierarchies”; *JACM*, vol.28 no.2, Apr.1981, pp.270–288.
- Tsichritzis, D.C. and Bernstein, P.A.<sup>74</sup>: *Operating Systems*; Academic Press, 1974.
- Tsichritzis, D.C. and Lochovsky, F.H.<sup>82</sup>: *Data Models*; Prentice Hall, 1982, 381 pp.
- Tuel, W.G., jr.<sup>78</sup>: “Optimum Reorganization Points for Linearly Growing Files”; *ACM TODS*, vol.3 no.1, Mar.1978, pp.32–40.
- Uhrowczik, P.P.<sup>73</sup>: “Data Dictionary/Directories”; *IBM Sys.J.*, vol.12 no.4, Dec.1973, pp.332–350.
- Ullman, J.D.<sup>83</sup>: *Principles of Database Systems*, 2nd ed.; Computer Science Press, 1983.
- vanderPool, J.A.<sup>73</sup>: “Optimum Storage Allocation for a File in Steady State” and “Optimum Storage Allocation for a File with Open Addressing”; *IBM JRD*, vol.17 no.1, Jan.1973, pp.27–38 and no.2, Mar.1973, pp.106–116.
- vanTassel, D.<sup>72</sup>: *Computer Security Management*; Prentice Hall, 1972.
- Veklerov, E.<sup>85</sup>: “Analysis of Dynamic Hashing with Deferred Splitting”; *ACM TODS*, vol. 10 no.1, Mar.1985, pp.90–96.
- Vitter, J.F.<sup>85</sup>: “An Efficient I/O Interface for Optical Disks”; *ACM TODS*, vol.10 no.2, Jun.1985, pp.129–162.
- Vold, Havard and Sjogren, Bjorn H.<sup>73</sup>: “Optimal Backup of Data Bases: A Statistical Investigation”; *BIT vol.13 no.2 1973*, pp.233–241.
- Vonnegut, Kurt, jr.<sup>52</sup>: *Player Piano, America in the Coming Age of Electronics*; Charles Scribner’s Sons, 1952, 295 pp.
- Wagner, H.M.<sup>75</sup>: *Principles of Management Science*; Prentice Hall, 2nd ed., 1975, 562 pp.
- Wagner, Robert E.<sup>73</sup>: “Indexing Design Considerations”; *IBM Sys. J.*, vol.12 no.4, Dec.1973, pp.351–367.
- Wah, Benjamin W.<sup>81</sup>: *Data Management on Distributed Databases*; UMI Research Press, Ann Arbor MI, 1981.
- Wah, Benjamin W.<sup>84</sup>: “File Placement on Distributed Computer Systems”; *IEEE Computer*, vol.17 no.1, Jan.1984, pp.23–33.
- Wah, Benjamin W.(ed.)<sup>87</sup>: *Proceedings Third Internat. Conference on Data Engineering*; Los Angeles CA, IEEE CS, Feb.1987.
- Ware, Willis<sup>67</sup>: “Security and Privacy”; *Proc. 1967 SJCC, AFIPS* vol.30, pp.279–282, 287–290.
- Warnier, Jean-Dominique<sup>79</sup>: *Logical Construction of Systems*; vanNostrand-Reinhold, 1979.
- Wasserman, A.I., Pircher, P.A., and Shewmake, D.T.<sup>86</sup>: “Building Reliable Interactive Information Systems”; *IEEE TSE*, vol.SE-12 no.1, Jan.1986, pp.147–156.
- Waters, S.J.<sup>72</sup>: “File Design Fallacies”; *Comp. J.*, vol.15, Feb.1972, pp.1–4.
- Waters, S.J.<sup>74</sup>: “Methodology of Computer System Design”; *Comp. J.*, vol.17 no.1, 1974, pp.17–24.

- Waters,S.J.<sup>75</sup>: “Estimating Magnetic Disk Seeks”; *Comp. J.*, vol.18 no.1, Feb.1975, pp.12–17.
- Weihl,William E.<sup>87</sup>: “Distributed Version Management for Read-Only Actions”; *IEEE TSE*, vol.SE-13 no.1, Jan.1987.
- Weingarten,Allen<sup>66</sup>: “The Eschenbach Drum Scheme”; *CACM*, vol.9 no.7, Jul.1966, pp.509–512.
- Weingarten, Allen<sup>68</sup>: “The Analytical Design of Real-Time Disk Systems”; *Proc.1968 IFIP Congress*, North-Holland, pp.D131–D137.
- Weiss,E.A.(ed.)<sup>82</sup>: “Self-Assessment Procedure IX: Ethics”; *CACM*, vol.25 no.3, Mar.1982, pp.181–195.
- Weissman,Clark<sup>69</sup>: “Security Controls in the ADEPT-50 Time-Sharing System”; *Proc.1969 FJCC*, AFIPS, vol.35, pp.119–133.
- Welch,Howard<sup>84</sup>: “Data Protection in a Shared Memory Multiprocessor”; *IEEE CS DE 1*, Los Angeles, Apr.1984.
- Westin,A.F.(ed.)<sup>71</sup>: *Information Technology in a Democracy*; Harvard Univ.Press, 1971.
- Weyl,S., Fries,J., Wiederhold,G., and Germano,F.<sup>75</sup>: “A Modular, Self-Describing Clinical Databank System”; *Comp.in Biomedical Res.*, vol.8, 1975, pp.279–293.
- Whang,K-Y., Wiederhold,G., and Sagalowicz,D.<sup>82</sup>: “Physical Design of Network Model Databases Using the Property of Separability”; *VLDB 8*, McLeod and Villasenor(eds.), Mexico City, Sep.1982, pp.98–107.
- Whang,K-Y., Wiederhold,G., and Sagalowicz,D.<sup>83</sup>: “Estimating Block Accesses in Database Organizations - A Closed Noniterative Formula”; *CACM*, vol.26 no.11, Nov.1983, pp.940–944.
- Whang,K-Y., Wiederhold,G., and Sagalowicz,D.<sup>84</sup>: “Separability: An Approach to Physical Database Design”; *IEEE TC*, vol.33 no.3, Mar.1984, pp.209–222.
- Whang,Kyu-Young<sup>85</sup>: “Index Selection in Relational Databases”; *Int.Conf.on Foundations of Data Organization*, IPSJ, Kyoto, 1985.
- White,L.J. and Cohen,E.I.<sup>80</sup>: “A Domain Strategy for Computer Program Testing”; *IEEE TSE*, vol.SE-6, May 1980, pp.247–257.
- Wiederhold,G.et al<sup>72</sup>: Report on the San Diego SHARE Data Base Committee on Technical Objectives meeting, Dec.1972; SHARE Inc. Proceedings, 1972.
- Wiederhold, G., Fries, J.F., and Weyl,S.<sup>75</sup>: “Structured Organization of Clinical Data Bases”; *Proc.1975 NCC*, AFIPS vol.44, pp.479–486.
- Wiederhold,Gio<sup>81</sup>: *Databases for Health Care*; Lecture Notes in Medical Informatics no. 12, Lindberge and Reichertz(eds.), Springer-Verlag, Heidelberg, 1981, 75pp.
- Wiederhold, Gio<sup>83</sup>: *Database Design*; McGraw-Hill, Computer Science Series, 1977, 2nd ed. 1983.
- Wiederhold,Gio<sup>84</sup>: “Knowledge and Database Management”; *IEEE Software*, vol.1 no.1, Jan.1984, pp.63–73.
- Wiederhold,Gio<sup>84a</sup>: “Databases”; *IEEE Computer*, Centennial issue, vol.17 no.10, Oct.1984, pp.211-223.
- Wiederhold,Gio(ed.)<sup>86DE</sup>: *Proceedings Second Internat. Conference on Data Engineering*; Los Angeles CA, IEEE CS, Feb.1986.
- Wiederhold,Gio<sup>86</sup>: “Views, Objects, and Databases”; *IEEE Computer*, Dec.1986, pp.37–44.
- Wiederhold,Gio and Qian,XiaoLei<sup>87</sup>: *Modeling Asynchrony: The Identity Connection*; *IEEE CS DE 3*, LA, Feb.1987.
- Wiederhold, Gio<sup>88</sup>: *Database Design and Implementation*; McGraw-Hill, to appear 1988.
- Wiking,Donald<sup>71</sup>: *The Evaluation of Information Services and Products*; Information Research Press, Washington DC, 1971.

- Wilhelm, Neil C.<sup>76</sup>: “An Anomaly in Disk Scheduling: A Comparison of FCFS and SSTF Seek Scheduling Using an Empirical Model for Disk Accesses”; *CACM*, vol.19 no.1, Jan.1976, pp.13–17.
- Wilkes, Maurice V.<sup>72</sup>: “On Preserving the Integrity of Data Bases”; *Comp. J.*, vol.15 no.3, 1972, pp.191–194.
- Willard, D.E. and Lueker, G.S.<sup>85</sup>: “Adding Range Restriction Capability to Dynamic Data Structures”; *JACM*, vol.32 no.3, Jul.1985, pp.597–617.
- Willard, D.E.<sup>86</sup>: “Good Worst-Case Algorithms for Inserting and Deleting Records in Dense Sequential Files”; *ACM-SIGMOD Proceedings*, 1986, pp.251–260.
- Williams, Martha (ed.)<sup>85</sup>: *Computer Readable Databases; A directory and data sourcebooks*; ASIS, 1985.
- Williams, R. et al<sup>82</sup>: “R-\*: an Overview of the Architecture”; *Databases*, Shneiderman (ed.), Academic Press, Jun.1982.
- Wilms, Paul F., Lindsay, B.G., and Selinger, P.G.<sup>83</sup>: “‘I wish I were over there’: Distributed Execution Protocols for Data Definition in R\*”; *ACM-SIGMOD 83*, San Jose, May 1983, pp.238–242.
- Winick, Robert M.<sup>69</sup>: “QTAM: Control and Processing in a Telecommunications Environment”; *ACM National Conf. 24*, ACM 1969.
- Withington, F.G.<sup>80</sup>: “Coping with Computer Proliferation”; *Harvard Business Review*, May-Jun.1980, pp.152.
- Wong, C.K.<sup>80</sup>: “Minimizing Expected Head Movement in One-Dimensional and Two-Dimensional Mass Storage Systems”; *ACM C. Surveys*, vol.12 no.2, Jun.1980, pp.167–211.
- Wong, E. and Chiang, T-C.<sup>71</sup>: “Canonical Structure in Attribute Based File Organization”; *CACM*, vol.14 no.9, Sep.1971, pp.593–597.
- Wong, H.K.T. and Jianzhong, L.<sup>86</sup>: “Transposition Algorithms for Very Large Compressed Databases”; *VLDB 12*, Kyoto Japan, Aug.1986.
- Yamamoto, S., Tazawa, S., Ushio, K., and Ikeda, H.<sup>79</sup>: “Design of a Balanced Multiple-Valued File-Organization Scheme with the Least Redundancy”; *ACM TODS*, vol.4 no.4, Dec.1979, pp.518–530.
- Yao, Andrew<sup>78</sup>: “Random 3-2 Trees”; *Acta Inf.*, vol.2 no.9, 1978, pp.159–170.
- Yao, Andrew C.<sup>85</sup>: “Uniform Hashing is Optimal”; *JACM*, vol.32 no.3, Jul.1985, pp.687–693.
- Yao, S.B., Das, K.S., and Teorey, T.J.<sup>76</sup>: “A Dynamic Database Reorganization Algorithm”; *ACM TODS*, vol.1 no.2, Jun.1976, pp.159–174.
- Yao, S.B.<sup>77</sup>: “An Attribute Based Model for Database Access Cost Analysis”; *ACM TODS*, vol.2 no.1, 1977, pp.45–67.
- Yoshida, M., Matsushita, Y., et al<sup>85</sup>: “Time and Cost Evaluation Schemes of Multiple Copies of Data in Distributed Database Systems”; *IEEE TSE*, vol.SE-11 no.9, Sep.1985, pp.954–959.
- Young, J.W.<sup>74</sup>: “A First Order Approximation to the Optimum Checkpoint Interval”; *CACM*, vol.17 no.9, Sep.1974, pp.550–531.
- Young, T.Y. and Liu, P.S.<sup>80</sup>: “Overhead Storage Considerations and a Multilinear Method for Data File Compression”; *IEEE TSE*, vol.SE-6 no.4, Jul.1980, pp.340–347.
- Yourdon, Edward<sup>72</sup>: *Design of On-line Computer Systems*; Prentice Hall 1972, 608 pp.
- Yu, C.T., Siu, M.K., Lam, K., and Chen, C.H.<sup>85</sup>: “File Allocation in Star Computer Network”; *IEEE TSE*, vol.SE-11 no.9, Sep.1985, pp.959–965.
- Yue, P.C. and Wong, C.K.<sup>78</sup>: *On a Partitioning Problem*; *ACM TODS*, vol.3 no.3, Sep.1978, pp.299–309.
- Zipf, George K.<sup>49</sup>: *Human Behavior and the Principle of Least Effort*; Addison-Wesley, 1949.