

IBM Systems Journal

Author Index

1962–1994

- Abraham, D. G., see Matyas, S. M., **30**, 2, 175 (1991).
- Abraham, D. G., G. M. Dolan, G. P. Double, and J. V. Stevens, *Transaction Security System* **30**, 2, 206 (1991).
- Abraham, R., and B. F. Goodrich, *Porting DPPX from the IBM 8100 to the IBM ES/9370: Feasibility and overview* **29**, 1, 90 (1990).
- Acker, R. D., and P. H. Seaman, *Modeling distributed processing across multiple CICS/VS sites* **21**, 4, 471 (1982).
- Addink, M., and J. J. Mullen, *AS/400 ImagePlus system view* **29**, 3, 451 (1990).
- Agarwal, R. C., F. G. Gustavson, J. McComb, and S. Schmidt, *Technical note—Engineering and Scientific Subroutine Library Release 3 for IBM ES/3090 vector multiprocessors* **28**, 2, 345 (1989).
- Agassi, S., *Performance considerations for a distributed data processing system designed for high availability* **24**, 3/4, 200 (1985).
- Aharon, A., A. Bar-David, B. Dorfman, E. Gofman, M. Leibowitz, and V. Schwartzburd, *Verification of the IBM RISC System/6000 by a dynamic biased pseudo-random test program generator* **30**, 4, 527 (1991).
- Ahmadi, M., J. H. Chou, and G. Gafka, *NetView/PC* **27**, 1, 32 (1988).
- Ahuja, D. V., and S. A. Coons, *Interactive Graphics in Data Processing: Geometry for construction and display* **7**, 3/4, 188 (1968).
- Ahuja, D. V., *Interactive Graphics in Data Processing: An algorithm for generating spline-like curves* **7**, 3/4, 206 (1968).
- Ahuja, V., *Routing and flow control in Systems Network Architecture* **18**, 2, 298 (1979).
- Ahuja, V., *Common Communications Support in Systems Application Architecture* **27**, 3, 264 (1988).
- Ainsworth, M. K., see Bennett, R. B., **30**, 1, 90 (1991).
- Aiso, M., *Forecasting techniques* **12**, 2, 187 (1973).
- Aken, B. R., Jr., *Large systems and Enterprise Systems Architecture* **28**, 1, 4 (1989).
- Albrecht, H. R., and K. D. Ryder, *The Virtual Telecommunications Access Method: A Systems Network Architecture perspective* **15**, 1, 53 (1976).
- Albrecht, H. R., and L. C. Thomason, *I/O facilities of the Distributed Processing Programming Executive (DPPX)* **18**, 4, 526 (1979).
- Alfonseca, M., M. L. Tavera, and R. Casajuana, *An APL interpreter and system for a small computer* **16**, 1, 18 (1977).
- Alfonseca, M., see Tavera, M. L., **24**, 1, 61 (1985).
- Alfonseca, M., D. Selby, and R. Wilks, *The APL IL Interpreter Generator* **30**, 4, 490 (1991).
- Alfonseca, M., *Advanced applications of APL: logic programming, neural networks, and hypertext* **30**, 4, 543 (1991).
- Alfred, C., *Maximizing leverage from an object database* **33**, 2, 280 (1994); G321-5543.
- Allen, A. O., *Elements of probability for system design* **13**, 4, 325 (1974).
- Allen, A. O., *Elements of queuing theory for system design* **14**, 2, 161 (1975).
- Allen, C. D., *The application of formal logic to programs and programming* **10**, 1, 2 (1971).
- Allen, M. O., and S. L. Benedict, *SNA Management Services architecture for APPN networks* **31**, 2, 336 (1992); G321-5477.
- Almond, D. B., *Numerical control for machining complex surfaces* **11**, 2, 150 (1972).
- Altenhuber, W., see Leymann, F., **33**, 2, 326 (1994).
- Altman, E. B., see Senko, M. E., **12**, 1, 30 (1973).
- Altman, E. B., see Senko, M. E., **12**, 1, 45 (1973).
- Altman, E. B., see Senko, M. E., **12**, 1, 64 (1973).
- Ambrosetti, R., T. A. Ciriani, and R. Pennacchi, *An application analyzer* **23**, 4, 336 (1984).
- Amdahl, G. M., *The structure of SYSTEM/360, Part III: Processing unit design considerations* **3**, 2/3, 144 (1964).
- Amundson, D. N., see Kan, S. H., **33**, 1, 62 (1994).

- Amy, R. M., see Sundstrom, R. J., 26, 1, 13 (1987).
- Anastassiou, D., M. K. Brown, H. C. Jones, J. L. Mitchell, W. B. Pennebaker, and K. S. Pennington, *Series/1-based videoconferencing system* 22, 1/2, 97 (1983).
- Anbil, R., R. Tanga, and E. L. Johnson, *A global approach to crew-pairing optimization* 31, 1, 71 (1992); G321-5462.
- Anderson, G. B., B. P. Gross, S. M. Lewis, and J. A. Reimer, *ImagePlus Workstation Program* 29, 3, 398 (1990).
- Anderson, H. A., Jr., M. Reiser, and G. L. Galati, *Tuning a virtual storage system* 14, 3, 246 (1975).
- Anderson, J. W., see Singh, Y., 25, 1, 20 (1986).
- Andreassen, S., see Hovorka, R., 31, 4, 635 (1992).
- Angeleri, P., D. F. Lozupone, F. Piccolo, and J. Clinckemallie, *PAM-CRASH on the IBM 3090/VF: An integrated environment for crash analysis* 27, 4, 541 (1988).
- Anthony, A. L., and H. K. Watson, *Techniques for developing analytic models* 11, 4, 316 (1972).
- Antonelli, D. C., *The role of the operator in the Supermarket and Retail Store Systems* 14, 1, 35 (1975).
- Anzick, W. J., see Mendelsohn, N., 22, 1/2, 63 (1983).
- Appel, A., T. P. Dankowski, and R. L. Dougherty, *Interactive Graphics in Data Processing: Aspects of display technology* 7, 3/4, 176 (1968).
- Appel, A., *Interactive Graphics in Data Processing: Modeling in three dimensions* 7, 3/4, 310 (1968).
- Appel, A., G. A. Cuomo, E. A. Overly, J. A. Walicki, and R. E. Yozzo, *Technical note—The WATINFO face server and associated utilities* 30, 3, 393 (1991).
- ApSimon, H. G., *Algorithm for a gear-train problem* 3, 1, 95 (1964).
- Archibald, J. L., B. M. Leavenworth, and L. R. Power, *Abstract design and program translator: New tools for software design* 22, 3, 170 (1983).
- Arfman, J. M., and P. Roden, *Project Athena: Supporting distributed computing at MIT* 31, 3, 550 (1992); G321-5486.
- Arnold, J. S., D. P. Casey, and R. H. McKinstry, *Design of tightly-coupled multiprocessing programming* 13, 1, 60 (1974).
- Aron, J. D., *Real-time systems in perspective* 6, 1, 49 (1967).
- Artim, J. M., J. M. Hary, and F. J. Spickhoff, *User interface services in AD/Cycle* 29, 2, 236 (1990).
- Aschenbrenner, J. R., *Open Systems Interconnection* 25, 3/4, 369 (1986).
- Ascoly, J., see Kuki, H., 10, 1, 39 (1971).
- Asher, J. R., see Skinner, C. E., 8, 4, 319 (1969).
- Ashfield, J., see Zatti, S., 31, 2, 353 (1992).
- Ashfield, J. C., and D. B. Cybrynski, *System-independent file management and distribution services* 28, 2, 241 (1989).
- Ashford, T. J., see Burns, N. A., 25, 2, 236 (1986).
- Astrahan, M. M., see Senko, M. E., 12, 1, 30 (1973).
- Astrahan, M. M., see Senko, M. E., 12, 1, 45 (1973).
- Astrahan, M. M., see Senko, M. E., 12, 1, 64 (1973).
- Astrahan, M. M., see Blasgen, M. W., 20, 1, 41 (1981).
- Atkinson, J. S., see Bhandari, I., 33, 1, 182 (1994).
- Attanasio, C. R., P. W. Markstein, and R. J. Phillips, *Penetrating an operating system: a study of VM/370 integrity* 15, 1, 102 (1976).
- Attanasio, C. R., *Virtual Control Storage—security measures in VM/370* 18, 1, 93 (1979).
- Aukrust, T., J. M. Oberhuber, E. J. Farrell, and P. M. Haugan, *A modeling study of the North Atlantic with emphasis on the Greenland-Iceland-Norwegian Sea* 31, 4, 798 (1992); G321-5499.
- Auslander, M. A., and J. F. Jaffe, *Functional structure of IBM virtual storage operating systems, Part I: Influences of dynamic address translation on operating system technology* 12, 4, 368 (1973).
- Avers, C. D., and R. E. Probst, *ImagePlus as a model for application solution development* 29, 3, 356 (1990).
- Baade, S. C., *SNA route generation using traffic patterns* 30, 3, 250 (1991).
- Back-Hock, A., see Gongla, P., 28, 4, 628 (1989).
- Bailey, R. M., and R. C. Soucy, *Performance and availability measurement of the IBM Information Network* 22, 4, 404 (1983).
- Baily, J. H., J. A. Howard, and T. J. Szczygielski, *The job entry subsystem of OS/VS1* 13, 3, 253 (1974).
- Baker, C. T., *Fabrication and assembly operations, Part I: The outlines of a control system* 4, 2, 87 (1965).
- Baker, C. T., *Logical distribution of applications and data* 19, 2, 171 (1980).
- Baker, F. T., *Chief programmer team management of production programming* 11, 1, 56 (1972).
- Baker, J., see Zatti, S., 31, 2, 353 (1992).
- Baker, W. W., see Perry, B. T., 29, 3, 467 (1990).
- Baldwin, F. R., W. B. Gibson, and C. B. Poland, *A multi-processing approach to a large computer system* 1, September, 64 (1962).
- Ball, F. W., see Sakamoto, J. G., 21, 1, 54 (1982).
- Ballard, C. P., L. Farfara, and B. J. Heldke, *Managing changes in SNA networks* 28, 2, 260 (1989).
- Balzac, S. R., see Prager, J. M., 29, 1, 141 (1990).
- Bandat, K. F., see Saracelli, K. D., 32, 3, 376 (1993).
- Banham, J. A., and P. McClelland, *Design features of a real-time check-clearing system* 11, 4, 329 (1972).
- Baratz, A. E., see Sultan, R. A., 26, 4, 429 (1987).
- Bard, Y., *Performance criteria and measurement for a time-sharing system* 10, 3, 193 (1971).
- Bard, Y., *Experimental evaluation of system performance* 12, 3, 302 (1973).
- Bard, Y., *Performance analysis of virtual memory time-sharing systems* 14, 4, 366 (1975).
- Bar-David, A., see Aharon, A., 30, 4, 527 (1991).
- Barnes, C. C., A. Coleman, J. M. Showalter, and M. L. Walker, *VM/ESA support for coordinated recovery of files* 30, 1, 107 (1991).
- Bartels, R. W., see Plesums, C. A., 29, 3, 343 (1990).
- Barzilai, T. P., see Sultan, R. A., 26, 4, 429 (1987).
- Basili, V. R., see Kan, S. H., 33, 1, 4 (1994).
- Baskin, H. B., and S. P. Morse, *Interactive Graphics in Data Processing: A multilevel modeling structure for interactive graphic design* 7, 3/4, 218 (1968).
- Bauer, D., *Technical forum—A reusable parts center* 32, 4, 620 (1993).
- Bauer, M. A., see Slonim, J., 33, 3, 382 (1994).

- Bauer, M. A., N. Coburn, D. L. Erickson, P. J. Finnigan, J. W. Hong, P.-Å. Larson, J. Pachl, J. Slonim, D. J. Taylor, and T. J. Teorey, *A distributed system architecture for a distributed application environment* 33, 3, 399 (1994); G321-5548.
- Bauer, M. A., P. J. Finnigan, J. W. Hong, J. A. Rolia, T. J. Teorey, and G. A. Winters, *Reference architecture for distributed systems management* 33, 3, 426 (1994); G321-5549.
- Beaty, K. A., see Jensen, J. R., 30, 4, 469 (1991).
- Beierle, C., see Bénichou, M., 31, 4, 755 (1992).
- Belady, L. A., *A study of replacement algorithms for a virtual-storage computer* 5, 2, 78 (1966).
- Belady, L. A., M. W. Blasgen, C. J. Evangelisti, and R. D. Tennison, *A computer graphics system for block diagram problems* 10, 2, 143 (1971).
- Belady, L. A., and M. M. Lehman, *A model of large program development* 15, 3, 225 (1976).
- Belady, L. A., C. J. Evangelisti, and L. R. Power, *GREENPRINT: A graphic representation of structured programs* 19, 4, 542 (1980).
- Bencher, D. L., *Technical forum—Programming quality improvement in IBM* 33, 1, 215 (1994).
- Bender, G., D. N. Freeman, and J. D. Smith, *Function and design of DOS/360 and TOS/360* 6, 1, 2 (1967).
- Benedict, S. L., see Allen, M. O., 31, 2, 336 (1992).
- Bénichou, M., H. Beringer, J.-M. Gauthier, and C. Beierle, *Prolog at IBM: An advanced and evolving application development technology* 31, 4, 755 (1992); G321-5496.
- Benjamin, J. H., M. L. Hess, R. A. Weingarten, and W. R. Wheeler, *Interconnecting SNA networks* 22, 4, 344 (1983).
- Benn, J. J., see Hovorka, R., 31, 4, 635 (1992).
- Bennett, J. L., see Bullen, C. V., 21, 3, 351 (1982).
- Bennett, J. L., *Tools for building advanced user interfaces* 25, 3/4, 354 (1986).
- Bennett, R. B., W. J. Bitner, M. A. Musa, and M. K. Ainsworth, *Systems management for Coordinated Resource Recovery* 30, 1, 90 (1991).
- Beregi, W. E., *Architecture prototyping in the software engineering environment* 23, 1, 4 (1984).
- Beregi, W. E., see Hoffnagle, G. F., 24, 2, 102 (1985).
- Beretvas, T., *Performance tuning in OS/VS2 MVS* 17, 3, 290 (1978).
- Beretvas, T., see Tetzlaff, W. H., 26, 2, 215 (1987).
- Berggren, C., *The BiProcessor: A merger of two architectures* 31, 3, 535 (1992); G321-5485.
- Berinato, C. L., see deBry, R. K., 27, 2, 234 (1988).
- Beringer, H., see Bénichou, M., 31, 4, 755 (1992).
- Berk, M. A., C. W. Dunbar, and G. C. Hobson, *Design and performance considerations for the Retail Store System* 14, 1, 64 (1975).
- Berry, R. E., *Common User Access—A consistent and usable human-computer interface for the SAA environments* 27, 3, 281 (1988).
- Berry, R. E., and C. J. Reeves, *The evolution of the Common User Access Workplace Model* 31, 3, 414 (1992); G321-5480.
- Berry, R. E., *The designer's model of the CUA Workplace* 31, 3, 429 (1992); G321-5481.
- Bertrand, O. P., see Chamberlin, D. D., 21, 3, 250 (1982).
- Bethke, F. J., W. M. Dean, P. H. Kaiser, E. Ort, and F. H. Pessin, *Improving the usability of programming publications* 20, 3, 306 (1981).
- Bhandari, I., M. J. Halliday, J. Chaar, R. Chillarege, K. Jones, J. S. Atkinson, C. Lepori-Costello, P. Y. Jasper, E. D. Tarver, C. C. Lewis, and M. Yonezawa, *In-process improvement through defect data interpretation* 33, 1, 182 (1994); G321-5538.
- Bharath-Kumar, K., see Grover, G. A., 22, 4, 451 (1983).
- Bias, R. G., see Waters, F. C. H., 26, 4, 383 (1987).
- Billings, C., J. Clifton, B. Kolkhorst, E. Lee, and W. B. Wingert, *Journey to a mature software process* 33, 1, 46 (1994); G321-5532.
- Binding, C., W. Bouma, M. Dauphin, G. Karjoth, and Y. Yang, *A common compiler for LOTOS and SDL specifications* 31, 4, 668 (1992); G321-5492.
- Birch, J. P., *Functional structure of IBM virtual storage operating systems, Part III: Architecture and design of DOS/VS* 12, 4, 401 (1973).
- Bird, D. L., and C. U. Munoz, *Automatic generation of random self-checking test cases* 22, 3, 229 (1983).
- Bird, R. A., and C. A. Hofmann, *Systems management* 19, 1, 140 (1980).
- Bitner, W. J., see Bennett, R. B., 30, 1, 90 (1991).
- Bitonti, F., D. W. Cooper, D. N. Frayne, and H. H. Hansen, *A computer-aided linkage analysis system* 4, 3, 200 (1965).
- Bjork, L. A., Jr., *Generalized audit trail requirements and concepts for data base applications* 14, 3, 229 (1975).
- Blaauw, G. A., and F. P. Brooks, Jr., *The structure of SYSTEM/360, Part I: Outline of the logical structure* 3, 2/3, 119 (1964).
- Blaauw, G. A., *The structure of SYSTEM/360, Part V: Multisystem organization* 3, 2/3, 181 (1964).
- Black, B. C., and D. C. Gazis, *Real-time traffic flow optimization* 10, 3, 217 (1971).
- Blake, K., and G. Gordon, *Systems simulation with digital computers* 3, 1, 14 (1964).
- Blakeney, G. R., L. F. Cudney, and C. R. Eickhorn, *An application-oriented multiprocessing system, Part II: Design characteristics of the 9020 system* 6, 2, 80 (1967).
- Blandy, G. O., and S. R. Newson, *VM/XA storage management* 28, 1, 175 (1989).
- Blasgen, M. W., see Belady, L. A., 10, 2, 143 (1971).
- Blasgen, M. W., and K. P. Eswaran, *Storage and access in relational data bases* 16, 4, 363 (1977).
- Blasgen, M. W., M. M. Astrahan, D. D. Chamberlin, J. N. Gray, W. F. King, B. G. Lindsay, R. A. Lorie, J. W. Mehl, T. G. Price, G. R. Putzolu, M. Schkolnick, P. G. Selinger, D. R. Slutz, H. R. Strong, I. L. Traiger, B. W. Wade, and R. A. Yost, *System R: An architectural overview* 20, 1, 41 (1981).
- Bleher, J. H., P. G. Caspers, H. H. Henn, and K. Maerker, *A graphic interactive application monitor* 19, 3, 382 (1980).
- Blum, A. M., *A general purpose digital simulator and examples of its application, Part III: Digital simulation of urban traffic* 3, 1, 41 (1964).
- Boehm, G. E., A. M. Palmiotti, and D. P. Zingaretti, *Porting DPPX from the IBM 8100 to the IBM ES/9370: Installation and testing* 29, 1, 124 (1990).

- Boies, S. J., *User behavior on an interactive computer system* 13, 1, 2 (1974).
- Boies, S. J., see Gould, J. D., 23, 1, 65 (1984).
- Bomberault, A. M., see White, W. W., 8, 2, 147 (1969).
- Bonner, A. J., *Using system monitor output to improve performance* 8, 4, 290 (1969).
- Boos, W., *HONE: The IBM marketing support system* 24, 3/4, 189 (1985).
- Borden, T. L., J. P. Hennessy, and J. W. Rymarczyk, *Multiple operating systems on one processor complex* 28, 1, 104 (1989).
- Botsford, J. E., see Heineman, G. T., 33, 3, 501 (1994).
- Botterill, J. H., *The design rationale of the System/38 user interface* 21, 4, 384 (1982).
- Botterill, J. H., *Design rationale of the AS/400 user interface* 28, 3, 443 (1989).
- Bouma, W., see Binding, C., 31, 4, 668 (1992).
- Boyd, D. F., and H. S. Krasnow, *Economic evaluation of management information systems* 2, March, 2 (1963).
- Boyd, D. F., H. S. Krasnow, and A. C. R. Petit, *A general purpose digital simulator and examples of its application, Part IV: Simulation of an integrated steel mill* 3, 1, 51 (1964).
- Boynton, A. C., B. Victor, and B. J. Pine II, *New competitive strategies: Challenges to organizations and information technology* 32, 1, 40 (1993); G321-5502.
- Bozman, G., W. Bucu, T. P. Daly, and W. H. Tetzlaff, *Analysis of free-storage algorithms—revisited* 23, 1, 44 (1984).
- Bozman, G. P., *VM/XA SP2 minidisk cache* 28, 1, 165 (1989).
- Brady, J. T., see Cohen, E. I., 28, 1, 62 (1989).
- Branin, F. H., Jr., L. V. Hall, J. Suez, R. M. Carlitz, and T. C. Chen, *An interpretive program for matrix arithmetic* 4, 1, 2 (1965).
- Branscomb, L. M., *Computing and communications—A perspective of the evolving environment* 18, 2, 189 (1979).
- Branscomb, L. M., and J. C. Thomas, *Ease of use: A system design challenge* 23, 3, 224 (1984).
- Brennan, R. D., and M. Y. Silberberg, *Two continuous system modeling programs* 6, 4, 242 (1967).
- Bresenham, J. E., *Algorithm for computer control of a digital plotter* 4, 1, 25 (1965).
- Brewer, A. C., *Interactive scheduling system* 10, 1, 62 (1971).
- Bricault, J. P., and I. Delgalvis, *On teleprocessing system design, Part III: An analysis of a request-queued buffer pool* 5, 3, 148 (1966).
- Britcher, R. N., *Re-engineering software: A case study* 29, 4, 551 (1990).
- Broadbent, M., and P. Weill, *Improving business and information strategy alignment: Learning from the banking industry* 32, 1, 162 (1993); G321-5508.
- Brockish, R. F., see Schick, T., 21, 2, 220 (1982).
- Bronner, L., *Overview of the capacity planning process for production data processing* 19, 1, 4 (1980).
- Brooks, F. P., Jr., see Blaauw, G. A., 3, 2/3, 119 (1964).
- Brooks, R. C., *An approach to high availability in high-transaction-rate systems* 24, 3/4, 279 (1985).
- Brown, D. T., R. L. Eibsen, and C. A. Thorn, *Channel and direct access device architecture* 11, 3, 186 (1972).
- Brown, J. A., and H. P. Crowder, *APL2: Getting started* 30, 4, 433 (1991).
- Brown, J. F., and D. W. Low, *Interactive simulation for banking* 12, 2, 172 (1973).
- Brown, M. K., see Anastassiou, D., 22, 1/2, 97 (1983).
- Brown, P., *Integrated hypertext and program understanding tools* 30, 3, 363 (1991).
- Brown, S. H., *Interactive Graphics in Data Processing: Conversational job control* 7, 3/4, 271 (1968).
- Bryant, P., F. W. Giesin, Jr., and R. M. Hayes, *Experiments in line quality monitoring* 15, 2, 124 (1976).
- Buchholz, W., *File organization and addressing* 2, June, 86 (1963).
- Buchholz, W., *A synthetic job for measuring system performance* 8, 4, 309 (1969).
- Buchholz, W., *The IBM System/370 vector architecture* 25, 1, 51 (1986).
- Buchwald, L. A., R. W. Davison, and W. P. Stevens, *Integrating applications with SAA* 27, 3, 315 (1988).
- Bucklelew, B. R., *The System Planning Grid: A model for building integrated information systems* 24, 3/4, 294 (1985).
- Buckman, C. R., see Chou, J. H., 31, 2, 270 (1992).
- Buco, W., see Bozman, G., 23, 1, 44 (1984).
- Buco, W. M., see Tetzlaff, W. H., 23, 4, 375 (1984).
- Buco, W. M., see Tetzlaff, W. H., 26, 2, 215 (1987).
- Bullen, C. V., J. L. Bennett, and E. D. Carlson, *A case study of office workstation use* 21, 3, 351 (1982).
- Burchfield, C. A., see Gale, J. L., 29, 1, 33 (1990).
- Burchi, R. S., *Interactive graphics today* 19, 3, 292 (1980).
- Burns, N. A., T. J. Ashford, C. T. Iwaskiw, R. P. Starbird, and R. L. Flagg, *The Portable Inference Engine: Fitting significant expertise into small systems* 25, 2, 236 (1986).
- Burridge, J. M., B. M. Collins, B. N. Galton, A. R. Halbert, T. R. Heywood, W. H. Latham, R. W. Phippen, P. Quarendon, P. Reilly, M. W. Ricketts, J. Simmons, S. J. P. Todd, A. G. N. Walter, and J. R. Woodwork, *The WINSOM solid modeller and its application to data visualization* 28, 4, 548 (1989).
- Buss, E., R. De Mori, W. M. Gentleman, J. Henshaw, H. Johnson, K. Kontogiannis, E. Merlo, H. A. Müller, J. Mylopoulos, S. Paul, A. Prakash, M. Stanley, S. R. Tilley, J. Troster, and K. Wong, *Investigating reverse engineering technologies for the CAS program understanding project* 33, 3, 477 (1994); G321-5552.
- Buss, E. B., see Slonim, J., 33, 3, 382 (1994).
- Bustamente, G. G., and K. Sorenson, *Decision support at Lands' End—An evolution* 33, 2, 228 (1994); G321-5540.
- Butler, C., see Slonim, J., 33, 3, 382 (1994).
- Butler, C. W., see Hodil, E. D., 25, 2, 147 (1986).
- Bux, W., *Performance issues in local-area networks* 23, 4, 351 (1984).
- Byrd, R. J., see Heidorn, G. E., 21, 3, 305 (1982).
- Caldiera, G., see Heineman, G. T., 33, 3, 501 (1994).
- Calica, A. B., *Fabrication and assembly operations, Part II: Long-range planning techniques* 4, 2, 94 (1965).
- Calica, A. B., *Fabrication and assembly operations, Part V: Production order sequencing* 4, 3, 225 (1965).
- Callaway, P. H., J. P. Considine, and C. H. Thompson, *Uses of virtual storage systems in a scientific environment* 11, 3, 200 (1972).

- Callaway, P. H., *Performance measurement tools for VM/370* 14, 2, 134 (1975).
- Calo, S. B., see Finkel, A. J., 31, 2, 252 (1992).
- Campeanu, R. I., see Kamel, M. S., 32, 2, 307 (1993).
- Campenni, R. D., see Leach, J. R., 19, 1, 120 (1980).
- Capper, N. P., R. J. Colgate, J. C. Hunter, and M. F. James, *The impact of object-oriented technology on software quality: Three case histories* 33, 1, 131 (1994); G321-5536.
- Carlitz, R. M., see Branin, F. H., Jr., 4, 1, 2 (1965).
- Carlson, E. D., see Weller, D. L., 19, 3, 314 (1980).
- Carlson, E. D., see Bullen, C. V., 21, 3, 351 (1982).
- Carneiro, L. M. F., see de Lima, A. H. V., 28, 4, 580 (1989).
- Carpenter, M. B., and H. K. Hallman, *Quality emphasis at IBM's Software Engineering Institute* 24, 2, 121 (1985).
- Carr, W. A., see Reisman, S., 30, 3, 280 (1991).
- Carroll, J. M., see Thomas, J. C., 20, 2, 237 (1981).
- Carson, E. R., see Hovorka, R., 31, 4, 635 (1992).
- Caruso, J. M., see Poulin, J. S., 32, 4, 567 (1993).
- Casajuana, R., see Alfonseca, M., 16, 1, 18 (1977).
- Casey, C. A., see Griffiee, A. W., 27, 2, 206 (1988).
- Casey, D. P., see Arnold, J. S., 13, 1, 60 (1974).
- Casey, R. G., and D. R. Ferguson, *Intelligent Forms Processing* 29, 3, 435 (1990).
- Caspers, P. G., see Bleher, J. H., 19, 3, 382 (1980).
- Cawsey, G. P., see Wade, R. D., 8, 1, 28 (1969).
- Cenfetelli, A. R., *Data management concepts for DOS/360 and TOS/360* 6, 1, 22 (1967).
- Chaar, J., see Bhandari, I., 33, 1, 182 (1994).
- Chamberlin, D. D., see Blasgen, M. W., 20, 1, 41 (1981).
- Chamberlin, D. D., O. P. Bertrand, M. J. Goodfellow, J. C. King, D. R. Slutz, S. J. P. Todd, and B. W. Wade, *JANUS: An interactive document formatter based on declarative tags* 21, 3, 250 (1982).
- Chamberlin, D. D., see Cheng, J. M., 33, 2, 264 (1994).
- Chambers, F. W., see Cole, H., 2, September-December, 240 (1963).
- Chang, P. Y., and W. W. Myre, *OS/2 EE Database Manager overview and technical highlights* 27, 2, 105 (1988).
- Chang, W., and D. J. Wong, *Computer channel interference analysis* 4, 2, 162 (1965).
- Chang, W., *A queuing model for a simple case of time sharing* 5, 2, 115 (1966).
- Chang, W., *Single-server queuing processes in computing systems* 9, 1, 36 (1970).
- Chapman, M. D., see Oshisanwo, A. O., 31, 4, 691 (1992).
- Chappuis, R. J., see Green, P. E., Jr., 26, 4, 414 (1987).
- Charland, D. A., *The Application System/400 help facility—design philosophy and considerations* 28, 3, 424 (1989).
- Chen, F. C., and R. L. Dougherty, *Interactive Graphics in Data Processing: A system for implementing interactive applications* 7, 3/4, 257 (1968).
- Chen, R., H. Crowder, and E. L. Johnson, *Solving the installation scheduling problem using mixed integer linear programming* 17, 1, 82 (1978).
- Chen, T. C., see Branin, F. H., Jr., 4, 1, 2 (1965).
- Cheng, J. M., C. R. Loosley, A. Shibamiya, and P. S. Worthington, *IBM Database 2 performance: Design, implementation, and tuning* 23, 2, 189 (1984).
- Cheng, J. M., N. M. Mattos, D. D. Chamberlin, and L. G. DeMichiel, *Extending relational database technology for new applications* 33, 2, 264 (1994); G321-5542.
- Cheng, P. S., *Trace-driven system modeling* 8, 4, 280 (1969).
- Chess, D. M., and G. Waldbaum, *The VM/370 Resource Limiter* 20, 4, 424 (1981).
- Chess, D. M., *A tight coupling of workstations* 23, 3, 255 (1984).
- Chess, D. M., and M. F. Cowlishaw, *A large-scale computer conferencing system* 26, 1, 138 (1987).
- Chien, R. T., see Tang, D. T., 8, 1, 48 (1969).
- Chillarege, R., see Bhandari, I., 33, 1, 182 (1994).
- Chin, S. T., see Fleischmann, A., 26, 3, 255 (1987).
- Chiu, Willy W., and We-Min Chow, *A performance model of MVS* 17, 4, 444 (1978).
- Chodorow, M. S., see Heidorn, G. E., 21, 3, 305 (1982).
- Chou, J. H., see Ahmadi, M., 27, 1, 32 (1988).
- Chou, J. H., C. R. Buckman, T. Hemp, A. Himwich, and F. Niemi, *AIX NetView/6000* 31, 2, 270 (1992); G321-5473.
- Chow, We-Min, see Chiu, Willy W., 17, 4, 444 (1978).
- Choy, D. M., see Lum, V. Y., 21, 3, 327 (1982).
- Christensen, K., G. P. Fitsos, and C. P. Smith, *A perspective on software science* 20, 4, 372 (1981).
- Chroust, G., H. Goldmann, and O. Gschwandtner, *The role of work management in application development* 29, 2, 189 (1990).
- Church, F. L., *Requirements generation, explosions, and bills of material* 2, September-December, 268 (1963).
- Ciarfella, W. A., see Radice, R. A., 24, 2, 79 (1985).
- Ciarfella, W. A., see Mays, R. G., 24, 2, 134 (1985).
- Ciriani, T. A., see Ambrosetti, R., 23, 4, 336 (1984).
- Clark, B. E., and M. J. Corrigan, *Application System/400 performance characteristics* 28, 3, 407 (1989).
- Clark, C. E., *The facilities and evolution of MVS/ESA* 28, 1, 124 (1989).
- Clark, C. M., see Harding, W. B., 29, 3, 384 (1990).
- Clark, I. A., *Software simulation as a tool for usable product design* 20, 3, 272 (1981).
- Clark, R. S., and T. L. Wilson, *Vector system performance of the IBM 3090* 25, 1, 63 (1986).
- Clark, W. A., *The functional structure of OS/360, Part III: Data management* 5, 1, 30 (1966).
- Clarkson, T. B., III, *Standardized graphics on the IBM Personal Computer* 24, 1, 3 (1985).
- Clementi, E., D. Logan, and J. Saarinen, *ICAP 3090: Parallel processing for large-scale scientific and engineering problems* 27, 4, 475 (1988).
- Cleveland, L., *A program understanding support environment* 28, 2, 324 (1989).
- Clifton, J., see Billings, C., 33, 1, 46 (1994).
- Clinckemaillie, J., see Angeleri, P., 27, 4, 541 (1988).
- Coburn, N., see Bauer, M. A., 33, 3, 399 (1994).
- Cockburn, A. A. R., *The impact of object-orientation on application development* 32, 3, 420 (1993); G321-5519.

- Cohen, E. I., G. M. King, and J. T. Brady, *Storage hierarchies* 28, 1, 62 (1989).
- Cole, H., Y. Okaya, and F. W. Chambers, *A computer-operated laboratory data-taking system* 2, September-December, 240 (1963).
- Cole, H., *System/7 in a hierarchical laboratory automation system* 13, 4, 307 (1974).
- Cole, H., and A. A. Guido, *The IBM 5100 and the Research Device Coupler—A personal laboratory automation system* 16, 1, 41 (1977).
- Cole, L. J., see Sundstrom, R. J., 26, 1, 13 (1987).
- Coleman, A., see Barnes, C. C., 30, 1, 107 (1991).
- Colgate, R. J., see Capper, N. P., 33, 1, 131 (1994).
- Collins, B. M., see Burridge, J. M., 28, 4, 548 (1989).
- Comba, P. G., *Interactive Graphics in Data Processing: A language for three-dimensional geometry* 7, 3/4, 292 (1968).
- Comba, P. G., *Exponentiation cryptosystems on the IBM PC* 29, 4, 526 (1990).
- Consens, M. P., F. Ch. Eigler, M. Z. Hasan, A. O. Mendelzon, E. G. Noik, A. G. Ryman, and D. Vista, *Architecture and applications of the Hy⁺ visualization system* 33, 3, 458 (1994); G321-5551.
- Considine, J. P., see Callaway, P. H., 11, 3, 200 (1972).
- Considine, J. P., and J. J. Myers, *MARC: MVS archival storage and recovery program* 16, 4, 378 (1977).
- Constantine, L. L., see Stevens, W. P., 13, 2, 115 (1974).
- Conti, C. J., D. H. Gibson, and S. H. Pitkowsky, *Structural aspects of the System/360 Model 85, Part I: General organization* 7, 1, 2 (1968).
- Cook, R. L., F. L. Rawson III, J. A. Tunkel, and R. L. Williams, *Writing an Operating System/2 application* 27, 2, 134 (1988).
- Coons, S. A., see Ahuja, D. V., 7, 3/4, 188 (1968).
- Cooper, D. W., see Bitonti, F., 4, 3, 200 (1965).
- Cooper, J. C., *A capacity planning methodology* 19, 1, 28 (1980).
- Corbi, T. A., *Program understanding: Challenge for the 1990s* 28, 2, 294 (1989).
- Cordell, R. Q., II, M. Misra, and R. F. Wolfe, *Advanced Interactive Executive program development environment* 26, 4, 361 (1987).
- Cornish, R. E., see Gagliano, F. W., 7, 3/4, 281 (1968).
- Corr, F. P., and D. H. Neal, *SNA and emerging international standards* 18, 2, 244 (1979).
- Corrigan, M. J., see Clark, B. E., 28, 3, 407 (1989).
- Coryell, D. A., see Ruggiero, J. F., 8, 2, 118 (1969).
- Cowlshaw, M. F., *The design of the REXX language* 23, 4, 326 (1984).
- Cowlshaw, M. F., see Chess, D. M., 26, 1, 138 (1987).
- Crabtree, R. P., *Job networking* 17, 3, 206 (1978).
- Creasy, R. J., *Interactive Graphics in Data Processing: Neutron cross-section evaluation* 7, 3/4, 355 (1968).
- Crowder, H., see Chen, R., 17, 1, 82 (1978).
- Crowder, H. P., see Brown, J. A., 30, 4, 433 (1991).
- Cruise, A. V., see Milliken, K. R., 25, 2, 159 (1986).
- Crus, R. A., *Data recovery in IBM Database 2* 23, 2, 178 (1984).
- Cudney, L. F., see Blakeney, G. R., 6, 2, 80 (1967).
- Cullum, P. G., *The transmission subsystem in Systems Network Architecture* 15, 1, 24 (1976).
- Cuomo, G. A., see Appel, A., 30, 3, 393 (1991).
- Curtiss, J., see Stone, R. L., 30, 1, 52 (1991).
- Cybrynski, D. B., see Ashfield, J. C., 28, 2, 241 (1989).
- Cypser, R. J., *Evolution of an open communications architecture* 31, 2, 161 (1992); G321-5468.
- Dadam, P., and V. Linnemann, *Advanced Information Management (AIM): Advanced database technology for integrated applications* 28, 4, 661 (1989).
- Daly, T. P., see Bozman, G., 23, 1, 44 (1984).
- Daniel, C. J., see Heyne, G. F., 16, 4, 344 (1977).
- Dankowski, T. P., see Appel, A., 7, 3/4, 176 (1968).
- Darga, K., *On-line inquiry under a small-system operating system* 9, 1, 2 (1970).
- d'Arielli, L., *A message management system for personal computers* 28, 3, 479 (1989).
- Dash, J. R., and R. N. Ojala, *IBM Database 2 in an Information Management System environment* 23, 2, 165 (1984).
- Dassinger, R. A., see Judisch, J. M., 20, 2, 172 (1981).
- Dauphin, M., M. M. Marques, A. P. Mullery, and P. Rodier, *The European telecommunications research and development program RACE and its software project SPECS* 31, 4, 649 (1992); G321-5491.
- Dauphin, M., see Binding, C., 31, 4, 668 (1992).
- Dave, J. V., see Halpern, P., 27, 4, 561 (1988).
- Davidson, W. H., *Beyond re-engineering: The three phases of business transformation* 32, 1, 65 (1993); G321-5503.
- Davies, C. T., Jr., *Data processing spheres of control* 17, 2, 179 (1978).
- Davies, P. M., *Readings in microprogramming* 11, 1, 16 (1972).
- Davis, A. G., J. R. Friedman, M. J. Haims, and G. C. Stierhoff, *Guidelines for authors of the IBM Systems Journal* 29, 4, 568 (1990).
- Davis, A. G., J. R. Friedman, and C. R. Seddon, *Author guidelines for the IBM Systems Journal* 33, 4, 692 (1994); G321-5554.
- Davis, G. B., *Strategies for information requirements determination* 21, 1, 4 (1982).
- Davison, G., see Delgalvis, I., 3, 1, 2 (1964).
- Davison, R. W., see Buchwald, L. A., 27, 3, 315 (1988).
- Day, C. W., and L. L. Zimmerman, *Interactive Graphics in Data Processing: Implementation and usage* 7, 3/4, 373 (1968).
- Day, W. H. E., *Compiler assignment of data items to registers* 9, 4, 281 (1970).
- Dean, M., *How a computer should talk to people* 21, 4, 424 (1982).
- Dean, W. M., see Bethke, F. J., 20, 3, 306 (1981).
- Deaton, G. A., Jr., and R. O. Hippert, Jr., *X.25 and related recommendations in IBM products* 22, 1/2, 11 (1983).
- Deaton, G. A., Jr., see Sundstrom, R. J., 26, 1, 13 (1987).
- deBry, R. K., and B. G. Platte, *Advanced Function Printing: A tutorial* 27, 2, 219 (1988).
- deBry, R. K., B. G. Platte, C. L. Berinato, and J. W. Marlin, *Architectures of Advanced Function Printing* 27, 2, 234 (1988).

- deBry, R. K., and M. W. Munger, *Advanced Function Printing—From print to presentation* 32, 4, 647 (1993); G321-5528.
- de Freitas, S. L., and P. J. Lavelle, *A method for the time analysis of programs* 17, 1, 26 (1978).
- Deinhart, K., *SAA distributed file access to the CICS environment* 31, 3, 516 (1992); G321-5484.
- Deitch, M., *Analytic queuing model for CICS capacity planning* 21, 4, 454 (1982).
- Delgalvis, I., and G. Davison, *Storage requirements for a data exchange* 3, 1, 2 (1964).
- Delgalvis, I., see Bricault, J. P., 5, 3, 148 (1966).
- de Lima, A. H. V., R. C. B. Martins, R. Stern, and L. M. F. Carneiro, *GARDEN—An integrated and evolving environment for ULSI/VLSI CAD applications* 28, 4, 580 (1989).
- DeMatteis, J. J., *An economic lot-sizing technique, Part I: The part-period algorithm* 7, 1, 30 (1968).
- Demers, R. A., *Distributed files for SAA* 27, 3, 348 (1988).
- Demers, R. A., J. D. Fisher, S. S. Gaitonde, and R. R. Sanders, *Inside IBM's Distributed Data Management architecture* 31, 3, 459 (1992); G321-5482.
- Demers, R. A., and K. Yamaguchi, *Data description and conversion architecture* 31, 3, 488 (1992); G321-5483.
- DeMichiel, L. G., see Cheng, J. M., 33, 2, 264 (1994).
- De Mori, R., see Buss, E., 33, 3, 477 (1994).
- DeSousa, M. R., *Electronic information interchange in an office environment* 20, 1, 4 (1981).
- Devereaux, J. A., *An application-oriented multiprocessing system, Part III: Control program features* 6, 2, 95 (1967).
- Devlin, B. A., and P. T. Murphy, *An architecture for a business and information system* 27, 1, 60 (1988).
- Dewell, M. E., see Haynes, W. K., 27, 3, 384 (1988).
- Dewell, M. E., *Cross System Product application generator: Application design* 29, 2, 265 (1990).
- Dietz, D. N., see Sulack, R. A., 28, 3, 386 (1989).
- Dillon, T. J., see Jacobs, J. H., 9, 2, 145 (1970).
- Dimsdale, B., *Computer construction of minimal project networks* 2, March, 24 (1963).
- Dimsdale, B., and H. P. Flatt, *Project evaluation and selection* 2, September–December, 200 (1963).
- Dimsdale, B., and H. M. Markowitz, *A description of the SIMSCRIPT language* 3, 1, 57 (1964).
- Dinan, R. F., L. D. Painter, and R. R. Rodite, *ImagePlus High Performance Transaction System* 29, 3, 421 (1990).
- Dixon, R. C., N. C. Strole, and J. D. Markov, *A token-ring network for local data communications* 22, 1/2, 47 (1983).
- Doherty, W. J., and R. P. Kelisky, *Managing VM/CMS systems for user effectiveness* 18, 1, 143 (1979).
- Doherty, W. J., and W. G. Pope, *Computing as a tool for human augmentation* 25, 3/4, 306 (1986).
- Dolan, G. M., see Johnson, D. B., 30, 2, 130 (1991).
- Dolan, G. M., see Abraham, D. G., 30, 2, 206 (1991).
- Dolan, G. M., see Johnson, D. B., 30, 2, 230 (1991).
- Donnan, R. A., and J. R. Kersey, *Synchronous data link control: A perspective* 13, 2, 140 (1974).
- Donovan, J. J., and S. E. Madnick, *Hierarchical approach to computer system integrity* 14, 2, 188 (1975).
- Dorfman, B., see Aharon, A., 30, 4, 527 (1991).
- Dorrance, R. T., *Design of an integrated programming and operating system, Part V: The system's COBOL compiler* 2, September–December, 322 (1963).
- Double, G. P., see Abraham, D. G., 30, 2, 206 (1991).
- Dougherty, R. L., see Appel, A., 7, 3/4, 176 (1968).
- Dougherty, R. L., see Chen, F. C., 7, 3/4, 257 (1968).
- Drummond, M. E., Jr., *A perspective on system performance evaluation* 8, 4, 252 (1969).
- Duke, K. A., and W. A. Wall, *A professional graphics controller* 24, 1, 14 (1985).
- Duke, M. O., *Testing in a complex systems environment* 14, 4, 353 (1975).
- Dull, S. D., see Kan, S. H., 33, 1, 62 (1994).
- Dunbar, C. W., see Berk, M. A., 14, 1, 64 (1975).
- Dunfee, W. P., J. D. McGehe, R. C. Rauf, and K. O. Shipp, *Designing SAA applications and user interfaces* 27, 3, 325 (1988).
- Durbeck, R. C., see Mayadas, A. F., 25, 3/4, 399 (1986).
- Dyer, M., *The management of software engineering, Part IV: Software development practices* 19, 4, 451 (1980).
- Dzielniski, B. P., *Fabrication and assembly operations, Part IV: Linear programming in production planning* 4, 2, 122 (1965).
- Dzielniski, B. P., *A guide to financial planning tools and techniques* 12, 2, 126 (1973).
- Eade, D. J., P. Homan, and J. H. Jones, *CICS/VS and its role in Systems Network Architecture* 16, 3, 258 (1977).
- Effelsberg, W., see Fleischmann, A., 26, 3, 255 (1987).
- Efron, R., and G. Gordon, *A general purpose digital simulator and examples of its application, Part I: Description of the simulator* 3, 1, 22 (1964).
- Ehrsam, W. F., S. M. Matyas, C. H. Meyer, and W. L. Tuchman, *A cryptographic key management scheme for implementing the Data Encryption Standard* 17, 2, 106 (1978).
- Eibsen, R. L., see Brown, D. T., 11, 3, 186 (1972).
- Eickhorn, C. R., see Blakeney, G. R., 6, 2, 80 (1967).
- Eigler, F. Ch., see Consens, M. P., 33, 3, 458 (1994).
- Eisenbies, J. L., *Conventions for digital data communication link design* 6, 4, 267 (1967).
- Elliott, P. J., J. M. Knapman, and W. Schlegel, *Interactive image segmentation for radiation treatment planning* 31, 4, 620 (1992); G321-5489.
- El-Sadany, T. A., and M. A. Hashish, *An Arabic morphological system* 28, 4, 600 (1989).
- Elson, M., and S. T. Rake, *Code-generation technique for large-language compilers* 9, 3, 166 (1970).
- Engel, G. H., J. Groppuso, R. A. Lowenstein, and W. G. Traub, *An office communications system* 18, 3, 402 (1979).
- Ennis, R. L., see Milliken, K. R., 25, 2, 159 (1986).
- Erickson, D. L., see Bauer, M. A., 33, 3, 399 (1994).
- Esau, L. R., and K. C. Williams, *On teleprocessing system design, Part II: A method for approximating the optimal network* 5, 3, 142 (1966).
- Eswaran, K. P., see Blasgen, M. W., 16, 4, 363 (1977).
- Evangelisti, C. J., see Belady, L. A., 10, 2, 143 (1971).
- Evangelisti, C. J., see Belady, L. A., 19, 4, 542 (1980).

- Fagan, M. E., *Design and code inspections to reduce errors in program development* 15, 3, 182 (1976).
- Falkoff, A. D., K. E. Iverson, and E. H. Sussenguth, *A formal description of SYSTEM/360* 3, 2/3, 198 (1964).
- Falkoff, A. D., *The IBM family of APL systems* 30, 4, 416 (1991).
- Fanderl, H., K. Fischer, and J. Kämper, *The Open Document Architecture: From standardization to the market* 31, 4, 728 (1992); G321-5495.
- Farfara, L., see Ballard, C. P., 28, 2, 260 (1989).
- Farrell, E. J., *Visual interpretation of complex data* 26, 2, 174 (1987).
- Farrell, E. J., see Aukrust, T., 31, 4, 798 (1992).
- Farrell, J. A., see Yakhnis, V. R., 33, 1, 158 (1994).
- Faulk, R. D., and F. Goertzel Gustavson, *Segmenting discrete data representing continuous speech input* 29, 2, 287 (1990).
- Fehder, P. L., see Senko, M. E., 12, 1, 30 (1973).
- Fehder, P. L., see Senko, M. E., 12, 1, 45 (1973).
- Fehder, P. L., see Senko, M. E., 12, 1, 64 (1973).
- Felix, C. P., see Walston, C. E., 16, 1, 54 (1977).
- Fennel, J. W., Jr., and B. D. Gobioff, *A Satellite Communications Controller* 22, 1/2, 81 (1983).
- Ferdinand, A. E., *An analysis of the machine interference model* 10, 2, 129 (1971).
- Ferguson, D. R., see Casey, R. G., 29, 3, 435 (1990).
- Feriozi, D. T., *A C programming model for OS/2 device drivers* 30, 3, 322 (1991); G321-5438.
- Feriozi, D. T., *A split model for OS/2 SCSI device drivers* 31, 1, 114 (1992); G321-5465.
- Fernandez, E. B., see Wood, C., 19, 2, 229 (1980).
- Finkel, A. J., see Milliken, K. R., 25, 2, 159 (1986).
- Finkel, A. J., and S. B. Calo, *RODM: A control information base* 31, 2, 252 (1992); G321-5472.
- Finnigan, P. J., see Bauer, M. A., 33, 3, 399 (1994).
- Finnigan, P. J., see Bauer, M. A., 33, 3, 426 (1994).
- Fischer, K., see Fanderl, H., 31, 4, 728 (1992).
- Fischofer, W. T., *VM/ESA: A single system for centralized and distributed computing* 30, 1, 4 (1991).
- Fisher, J. D., see Green, P. E., Jr., 26, 4, 414 (1987).
- Fisher, J. D., see Demers, R. A., 31, 3, 459 (1992).
- Fitsos, G. P., see Christensen, K., 20, 4, 372 (1981).
- Fitzgerald, A. K., and B. F. Goodrich, *Data Management for the Distributed Processing Programming Executive (DPPX)* 18, 4, 547 (1979).
- Flagg, R. L., see Burns, N. A., 25, 2, 236 (1986).
- Flaherty, M. J., *Programming process productivity measurement system for System/370* 24, 2, 168 (1985).
- Flatt, H. P., see Dimsdale, B., 2, September-December, 200 (1963).
- Fleischmann, A., S. T. Chin, and W. Effelsberg, *Specification and implementation of an ISO session layer* 26, 3, 255 (1987).
- Ford, J. B., *Enhanced problem determination capability for teleprocessing* 17, 3, 276 (1978).
- Forrest, J. J. H., and J. A. Tomlin, *Implementing the simplex method for the Optimization Subroutine Library* 31, 1, 11 (1992); G321-5457.
- Forrest, J. J. H., and J. A. Tomlin, *Implementing interior point linear programming methods in the Optimization Subroutine Library* 31, 1, 26 (1992); G321-5458.
- Francois, P., see Geihs, K., 31, 4, 711 (1992).
- Franklin, S. M., and A. M. Peters, *Effective application development for Presentation Manager programs* 29, 1, 44 (1990).
- Frayne, D. N., see Bitonti, F., 4, 3, 200 (1965).
- Frazer, W. D., *Potential technology implications for computers and telecommunications in the 1980s* 18, 2, 333 (1979).
- Fredericksen, D. H., *Describing data in computer networks* 12, 3, 257 (1973).
- Freeman, D. N., *Macro language design for SYSTEM/360* 5, 2, 62 (1966).
- Freeman, D. N., see Bender, G., 6, 1, 2 (1967).
- Friedman, H. P., and G. Waldbaum, *Evaluating system changes under uncontrolled workloads: a case study* 14, 4, 340 (1975).
- Friedman, J. R., see Davis, A. G., 29, 4, 568 (1990).
- Friedman, J. R., see Davis, A. G., 33, 4, 692 (1994).
- Friedman, T. D., *The authorization problem in shared files* 9, 4, 258 (1970).
- Friis, Erik S., see Jordan, Stanley, 30, 4, 513 (1991).
- Fromm, J. E., and D. E. Schreiber, *System aspects of large-problem computation and display* 11, 1, 41 (1972).
- Frosch, P. S., see Green, P. E., Jr., 26, 4, 414 (1987).
- Furegati, R., see Schlatter, M., 33, 2, 239 (1994).
- Gafka, G., see Ahmadi, M., 27, 1, 32 (1988).
- Gagliano, F. W., H. W. Thombs, and R. E. Cornish, *Interactive Graphics in Data Processing: A conversational display capability* 7, 3/4, 281 (1968).
- Gaillard, P., see Papetti, F., 31, 4, 774 (1992).
- Gaitonde, S. S., see Demers, R. A., 31, 3, 459 (1992).
- Galati, G. L., see Anderson, H. A., Jr., 14, 3, 246 (1975).
- Gale, J. L., J. R. Tirso, and C. A. Burchfield, *Implementing the Defect Prevention Process in the MVS Interactive programming organization* 29, 1, 33 (1990).
- Galli, E. J., and H. Yamada, *An automatic dictionary and the verification of machine-readable text* 6, 3, 192 (1967).
- Gallo, C. L., see Harding, W. B., 29, 3, 384 (1990).
- Galton, B. N., see Burrridge, J. M., 28, 4, 548 (1989).
- Ganek, A. G., see Wheeler, E. F., 27, 3, 250 (1988).
- Ganek, A. G., see Scalzi, C. A., 28, 1, 15 (1989).
- Gardner, D. L., see Prager, J. M., 29, 1, 141 (1990).
- Gardner, P. C., Jr., *A system for the automated office environment* 20, 3, 321 (1981).
- Gardy, M., see Hagamen, W. D., 25, 2, 207 (1986).
- Garrigues, R. D., *An application of network management at a large computing service* 22, 1/2, 143 (1983).
- Gauthier, J.-M., see Bénichou, M., 31, 4, 755 (1992).
- Gay, T. W., Jr., *On teleprocessing system design, Part V: A technique for estimating channel interference* 5, 3, 171 (1966).
- Gazdag, J., and H.-H. Wang, *Concurrent computing by sequential staging of tasks* 28, 4, 646 (1989).
- Gazis, D. C., see Black, B. C., 10, 3, 217 (1971).

- Gdaniec, J. M., and J. P. Hennessy, *VM Data Spaces and ESA/XC facilities* 30, 1, 14 (1991).
- Gecsei, J., see Mattson, R. L., 9, 2, 78 (1970).
- Gecsei, J., and J. A. Lukes, *A model for the evaluation of storage hierarchies* 13, 2, 163 (1974).
- Geihs, K., P. Francois, D. Griffin, C. Kaas-Petersen, and A. Mann, *Service and traffic management for IBCN* 31, 4, 711 (1992); G321-5494.
- Gelb, J. P., *System-managed storage* 28, 1, 77 (1989).
- Gentleman, W. M., see Buss, E., 33, 3, 477 (1994).
- George, F. D., and G. E. Young, *SNA flow control: Architecture and implementation* 21, 2, 179 (1982).
- Gerald, J., see Hatfield, D. J., 10, 3, 168 (1971).
- Gerson, G., *Note—On modifying the 1620 ADD table* 1, September, 82 (1962).
- Ghanem, S. B., *Computing center optimization by a pricing-priority policy* 14, 3, 272 (1975).
- Ghiotti, M. M., *A single-system interface using the IBM 3270-PC* 24, 3/4, 236 (1985).
- Gibson, D. H., see Conti, C. J., 7, 1, 2 (1968).
- Gibson, D. H., D. W. Rain, and H. F. Walsh, *Engineering and scientific processing on the IBM 3090* 25, 1, 36 (1986).
- Gibson, W. B., see Baldwin, F. R., 1, September, 64 (1962).
- Giddings, G. M., see Weller, D. L., 19, 3, 314 (1980).
- Giesin, F. W., Jr., see Bryant, P., 15, 2, 124 (1976).
- Ginzberg, M. G., *Notes on testing real-time system programs* 4, 1, 58 (1965).
- Gladney, H. M., E. L. Worley, and J. J. Myers, *An access control mechanism for computing resources* 14, 3, 212 (1975).
- Gladney, H. M., D. L. Johnson, and R. L. Stone, *Computer installation accounting* 14, 4, 314 (1975).
- Gladney, H. M., see Raimondi, D. L., 15, 1, 81 (1976).
- Gladney, H. M., *Administrative control of computing service* 17, 2, 151 (1978).
- Gladney, H. M., *A storage subsystem for image and records management* 32, 3, 512 (1993); G321-5523.
- Glazer, R., *Measuring the value of information: The information-intensive organization* 32, 1, 99 (1993); G321-5505.
- Gobioff, B. D., see Fennel, J. W., Jr., 22, 1/2, 81 (1983).
- Godard, D. N., see Green, P. E., Jr., 26, 1, 37 (1987).
- Gofman, E., see Aharon, A., 30, 4, 527 (1991).
- Goldberg, R., *Software engineering: An emerging discipline* 25, 3/4, 334 (1986).
- Goldberg, S. H., and J. A. Mouton, Jr., *A base for portable communications software* 30, 3, 259 (1991).
- Goldmann, H., see Chroust, G., 29, 2, 189 (1990).
- Goldstein, B. C., A. R. Heller, F. H. Moss, and I. Wladawsky-Berger, *Directions in cooperative processing between workstations and hosts* 23, 3, 236 (1984).
- Goldstein, B. C., and J. M. Jaffe, *Data communications: The implications of communication systems for protocol design* 26, 1, 122 (1987).
- Goldweic, P., see Gongla, P., 28, 4, 628 (1989).
- Golini, S., see Papetti, F., 31, 4, 774 (1992).
- Gomory, R. E., *Note—The trim problem* 1, September, 77 (1962).
- Gongla, P., G. Sakamoto, A. Back-Hock, P. Goldweic, L. Ramos, R. C. Sprowls, and C.-K. Kim, *S*P*A*R*K: A knowledge-based system for identifying competitive uses of information technology* 28, 4, 628 (1989).
- Goodfellow, M. J., see Chamberlin, D. D., 21, 3, 250 (1982).
- Goodman, A. S., see Lewis, P. A. W., 8, 2, 136 (1969).
- Goodrich, B. F., see Fitzgerald, A. K., 18, 4, 547 (1979).
- Goodrich, B. F., see Abraham, R., 29, 1, 90 (1990).
- Goodrich, C., and M. B. Loughlin, *Porting DPPX from the IBM 8100 to the IBM ES/9370: Migration* 29, 1, 106 (1990).
- Gordon, G., *A general purpose systems simulator* 1, September, 18 (1962).
- Gordon, G., see Blake, K., 3, 1, 14 (1964).
- Gordon, G., see Efron, R., 3, 1, 22 (1964).
- Gordon, R. D., *The Modular Application Customizing System* 19, 4, 521 (1980).
- Gordon, R. J., *Financial modeling on small systems* 12, 2, 161 (1973).
- Gorenstein, S., *Fabrication and assembly operations, Part VI: Parameter values for sequencing control* 4, 3, 241 (1965).
- Gorenstein, S., *Programming for economic lot-sizes with precedences between items* 10, 3, 232 (1971).
- Gottschalk, K. D., *The System Usability Process for Network Management Products* 25, 1, 83 (1986).
- Gottschalk, K. D., *NetView Version 2 Release 3 Graphic Monitor Facility: Network management graphics support for the 1990s* 31, 2, 223 (1992); G321-5471.
- Gould, J. D., and S. J. Boies, *Speech filing—An office system for principals* 23, 1, 65 (1984).
- Gould, R. L., *GPSS/360—an improved general purpose simulator* 8, 1, 16 (1969).
- Gravina, C. M., *National Westminster Bank mass storage archiving* 17, 4, 344 (1978).
- Gray, J. N., see Blasgen, M. W., 20, 1, 41 (1981).
- Gray, J. P., and T. B. McNeill, *SNA multiple-system networking* 18, 2, 263 (1979).
- Gray, J. P., P. J. Hansen, P. Homan, M. A. Lerner, and M. Pozefsky, *Advanced program-to-program communication in SNA* 22, 4, 298 (1983).
- Green, P. E., *An introduction to network architectures and protocols* 18, 2, 202 (1979).
- Green, P. E., Jr., and D. N. Godard, *Prospects and design choices for integrated private networks* 26, 1, 37 (1987).
- Green, P. E., Jr., R. J. Chappuis, J. D. Fisher, P. S. Frosch, and C. E. Wood, *A perspective on Advanced Peer-to-Peer Networking* 26, 4, 414 (1987).
- Greenberg, J., see Tetzlaff, W. H., 26, 2, 215 (1987).
- Gregorius, H., see Tirso, J. R., 32, 4, 612 (1993).
- Griffee, A. W., and C. A. Casey, *An introduction to typographic fonts and digital font resources* 27, 2, 206 (1988).
- Griffin, D., see Geihs, K., 31, 4, 711 (1992).
- Griffin, J. S., Jr., J. H. King, Jr., and C. J. Tunis, *A pattern identification system using linear decision functions* 2, September–December, 248 (1963).
- Griffith, J. E., *An intrinsically addressed processing system* 2, September–December, 182 (1963).
- Griffiths, P. D., see Roberts, M. L., 24, 1, 49 (1985).

- Griss, M. L., *Software reuse: From library to factory* 32, 4, 548 (1993); G321-5524.
- Groppuso, J., see Engel, G. H., 18, 3, 402 (1979).
- Gross, B. P., see Anderson, G. B., 29, 3, 398 (1990).
- Grossman, C. P., *Cache-DASD storage design for improving system performance* 24, 3/4, 316 (1985).
- Grossman, C. P., *Evolution of the DASD storage control* 28, 2, 196 (1989).
- Grossman, C. P., *Role of the DASD storage control in an Enterprise Systems Connection environment* 31, 1, 123 (1992); G321-5466.
- Grover, G. A., and K. Bharath-Kumar, *Windows in the sky—Flow control in SNA networks with satellite links* 22, 4, 451 (1983).
- Grover, G. A., see Sultan, R. A., 26, 4, 429 (1987).
- Gruhn, A. M., and A. C. Hohl, *A research perspective on computer-assisted office work* 18, 3, 432 (1979).
- Gschwandtner, O., see Chroust, G., 29, 2, 189 (1990).
- Guido, A. A., see Cole, H., 16, 1, 41 (1977).
- Gum, P. H., see Osisek, D. L., 30, 1, 34 (1991).
- Gumaer, R. A., see Teng, J. Z., 23, 2, 211 (1984).
- Gustavson, F. G., see Agarwal, R. C., 28, 2, 345 (1989).
- Gustavson, F. Goertzel, see Faulk, R. D., 29, 2, 287 (1990).
- Haderle, D. J., and R. D. Jackson, *IBM Database 2 overview* 23, 2, 112 (1984).
- Hagamen, W. D., D. J. Linden, H. S. Long, and J. C. Weber, *Encoding verbal information as unique numbers* 11, 4, 278 (1972).
- Hagamen, W. D., D. J. Linden, K. F. Mai, S. M. Newell, and J. C. Weber, *A program generator* 14, 2, 102 (1975).
- Hagamen, W. D., and M. Gardy, *The numeric representation of knowledge and logic—Two artificial intelligence applications in medical education* 25, 2, 207 (1986).
- Hahn, S. G., and E. V. Hankam, *Kernel analysis of elliptic partial differential equations* 5, 4, 248 (1966).
- Haims, M. J., see Davis, A. G., 29, 4, 568 (1990).
- Haines, L. H., *Serial compilation and the 1401 FORTRAN compiler* 4, 1, 73 (1965).
- Hakeda, Y., *The Image Object Content Architecture* 29, 3, 333 (1990).
- Halbert, A. R., see Burrige, J. M., 28, 4, 548 (1989).
- Hall, L. V., see Branin, F. H., Jr., 4, 1, 2 (1965).
- Halliday, M. J., see Bhandari, I., 33, 1, 182 (1994).
- Hallman, H. K., see Carpenter, M. B., 24, 2, 121 (1985).
- Halpern, P., and J. W. Rettberg, *User-definable software applied to a real-time ambient air quality monitoring system* 20, 1, 86 (1981).
- Halpern, P., S. M. Roberts, and L. Lopez, *An incidence-matrix-driven panel system for the IBM PC* 26, 2, 201 (1987).
- Halpern, P., and J. V. Dave, *Interactive computations and display of characteristics of the radiation scattered by a sphere: A demonstration for PS/2 Model 80* 27, 4, 561 (1988).
- Halsey, J. R., L. E. Hardy, and L. F. Powning, *Public data networks: Their evolution, interfaces, and status* 18, 2, 223 (1979).
- Hammond, K. R., and M. R. Zimowski, *TSO Attach: A multipurpose communication channel to IBM Database 2* 23, 2, 151 (1984).
- Hammond, L. W., *Management considerations for an Information Center* 21, 2, 131 (1982).
- Hancock, D. R., see Poulin, J. S., 32, 4, 567 (1993).
- Handelman, S. W., *A high-resolution computer graphics system* 19, 3, 356 (1980).
- Hanford, K. V., *Automatic generation of test cases* 9, 4, 242 (1970).
- Hankam, E. V., see Hahn, S. G., 5, 4, 248 (1966).
- Hansen, H. H., see Bitonti, F., 4, 3, 200 (1965).
- Hansen, P. J., see Gray, J. P., 22, 4, 298 (1983).
- Hanssmann, F., W. Kistler, and H. Schulz, *Modeling for computing center planning* 10, 4, 305 (1971).
- Harding, J. T., see Radice, R. A., 24, 2, 91 (1985).
- Harding, W. B., C. M. Clark, C. L. Gallo, and H. Tang, *Object storage hierarchy management* 29, 3, 384 (1990).
- Hardy, L. E., see Halsey, J. R., 18, 2, 223 (1979).
- Harrison, E. S., *Distributed processing communications software support for operation within an SNA network* 19, 2, 192 (1980).
- Harrison, E. S., and E. J. Schmitt, *The structure of System/88, a fault-tolerant computer* 26, 3, 293 (1987).
- Hartmann, T. C., see Hendricks, E. C., 18, 1, 111 (1979).
- Hary, J. M., see Artim, J. M., 29, 2, 236 (1990).
- Hasan, M. Z., see Consens, M. P., 33, 3, 458 (1994).
- Hashish, M. A., see El-Sadany, T. A., 28, 4, 600 (1989).
- Hassitt, A., and L. E. Lyon, *An APL emulator on System/370* 15, 4, 358 (1976).
- Hatfield, D. J., and J. Gerald, *Program restructuring for virtual memory* 10, 3, 168 (1971).
- Hatfield, D. J., see Parmelee, R. P., 11, 2, 99 (1972).
- Haugan, P. M., see Aukrust, T., 31, 4, 798 (1992).
- Hausler, P. A., R. C. Linger, and C. J. Trammell, *Adopting Cleanroom software engineering with a phased approach* 33, 1, 89 (1994); G321-5534.
- Hauth, C., *Turnaround time for messages of differing priorities* 7, 2, 103 (1968).
- Havender, J. W., *Avoiding deadlock in multitasking systems* 7, 2, 74 (1968).
- Hayes, R. M., see Bryant, P., 15, 2, 124 (1976).
- Haynes, W. K., M. E. Dewell, and P. J. Herman, *The Cross System Product application generator: An evolution* 27, 3, 384 (1988).
- Hazony, Y., and L. Zeidner, *Customized systems for engineering applications* 31, 1, 94 (1992); G321-5464.
- Hebeker, F. K., R. R. Maly, and S. U. Schoeffel, *Numerical simulation of reactive flow on the IBM ES/3090 Vector Multiprocessor* 31, 4, 788 (1992); G321-5498.
- Hedberg, R., *Design of an integrated programming and operating system, Part III: The expanded function of the loader* 2, September–December, 298 (1963).
- Hedger, R. J., see Kan, S. H., 33, 1, 62 (1994).
- Heidorn, G. E., K. Jensen, L. A. Miller, R. J. Byrd, and M. S. Chodorow, *The EPISTLE text-critiquing system* 21, 3, 305 (1982).
- Hein, K. P., *Information System Model and Architecture Generator* 24, 3/4, 213 (1985).
- Hein, K. P., *DevelopMate: A new paradigm for information system enabling* 29, 2, 250 (1990).

- Heineman, G. T., J. E. Botsford, G. Caldiera, G. E. Kaiser, M. I. Kellner, and N. H. Madhavji, *Emerging technologies that support a software process life cycle* 33, 3, 501 (1994); G321-5553.
- Heising, W. P., *Note on random addressing techniques* 2, June, 112 (1963).
- Helander, G. A., *Improving system usability for business professionals* 20, 3, 294 (1981).
- Held, M., and R. M. Karp, *The construction of discrete dynamic programming algorithms* 4, 2, 136 (1965).
- Heldke, B. J., see Ballard, C. P., 28, 2, 260 (1989).
- Heller, A. R., see Goldstein, B. C., 23, 3, 236 (1984).
- Hellerman, H., *Some principles of time-sharing scheduler strategies* 8, 2, 94 (1969).
- Hellerstein, J. L., see Milliken, K. R., 25, 2, 159 (1986).
- Helms, R. M., *Introduction to image technology* 29, 3, 313 (1990).
- Hembry, D. M., *Knowledge-based systems in the AD/Cycle environment* 29, 2, 274 (1990).
- Hemp, T., see Chou, J. H., 31, 2, 270 (1992).
- Henderson, J. C., and N. Venkatraman, *Strategic alignment: Leveraging information technology for transforming organizations* 32, 1, 4 (1993); G321-5500.
- Hendricks, E. C., and T. C. Hartmann, *Evolution of a virtual machine subsystem* 18, 1, 111 (1979).
- Henn, H. H., see Bleher, J. H., 19, 3, 382 (1980).
- Hennessy, J. P., see Borden, T. L., 28, 1, 104 (1989).
- Hennessy, J. P., see Gdaniec, J. M., 30, 1, 14 (1991).
- Henry, G. G., *IBM small-system architecture and design—Past, present, and future* 25, 3/4, 321 (1986).
- Henry, W. R., *Hierarchical structure for data management* 8, 1, 2 (1969).
- Henshaw, J., see Buss, E., 33, 3, 477 (1994).
- Herman, P. J., see Haynes, W. K., 27, 3, 384 (1988).
- Herscovitch, H., and T. H. Schneider, *GPSS III—an expanded general purpose simulator* 4, 3, 174 (1965).
- Hertel, H. F., see Stanley, W. I., 7, 2, 85 (1968).
- Hess, M. L., see Benjamin, J. H., 22, 4, 344 (1983).
- Hess, M. L., see Sundstrom, R. J., 26, 1, 13 (1987).
- Hester, P. D., see Simpson, R. O., 26, 4, 346 (1987).
- Hevner, A. R., see Mills, H. D., 26, 4, 395 (1987).
- Hevner, A. R., and H. D. Mills, *Box-structured methods for systems development with objects* 32, 2, 232 (1993); G321-5511.
- Heyne, G. F., and C. J. Daniel, *Design techniques for a user controlled DB/DC system* 16, 4, 344 (1977).
- Heywood, T. R., see Burridge, J. M., 28, 4, 548 (1989).
- Himwich, A., see Chou, J. H., 31, 2, 270 (1992).
- Hinsberg, W. D., see Mayadas, A. F., 25, 3/4, 399 (1986).
- Hippert, R. O., Jr., L. R. Palounek, J. Provetero, and R. O. Skatrud, *Reliability, availability, and serviceability design considerations for the Supermarket and Retail Store Systems* 14, 1, 81 (1975).
- Hippert, R. O., Jr., see Deaton, G. A., Jr., 22, 1/2, 11 (1983).
- Hirao, T., *Extension of the relational database semantic processing model* 29, 4, 539 (1990).
- Hirsch, R. S., *Procedures of the Human Factors Center at San Jose* 20, 2, 123 (1981).
- Hobgood, W. S., *Evaluation of an interactive-batch system network* 11, 1, 2 (1972).
- Hobgood, W. S., *The role of the Network Control Program in Systems Network Architecture* 15, 1, 39 (1976).
- Hobson, G. C., see Berk, M. A., 14, 1, 64 (1975).
- Hochweller, G., see Raimondi, D. L., 15, 1, 81 (1976).
- Hodil, E. D., C. W. Butler, and G. L. Richardson, *Knowledge-based systems in the commercial environment* 25, 2, 147 (1986).
- Hoernes, G. E., *REXX on TSO/E* 28, 2, 274 (1989).
- Hoffnagle, G. F., and W. E. Beregi, *Automating the software development process* 24, 2, 102 (1985).
- Hofmann, C. A., see Bird, R. A., 19, 1, 140 (1980).
- Hohl, A. C., see Gruhn, A. M., 18, 3, 432 (1979).
- Holley, L. H., R. P. Parmelee, C. A. Salisbury, and D. N. Saul, *VM/370 asymmetric multiprocessing* 18, 1, 47 (1979).
- Holloway, G. J., see Mays, R. G., 29, 1, 4 (1990).
- Homan, P., see Eade, D. J., 16, 3, 258 (1977).
- Homan, P., see Gray, J. P., 22, 4, 298 (1983).
- Hong, J. W., see Bauer, M. A., 33, 3, 399 (1994).
- Hong, J. W., see Bauer, M. A., 33, 3, 426 (1994).
- Honjou, N., see Sakaki, M., 27, 4, 528 (1988).
- Hopkins, M. E., *A perspective on the 801/Reduced Instruction Set Computer* 26, 1, 107 (1987).
- Hough, D., *Rapid Delivery: An evolutionary approach for application development* 32, 3, 397 (1993); G321-5518.
- Housel, B. C., and C. J. Scopinich, *SNA Distribution Services* 22, 4, 319 (1983).
- Hovorka, R., S. Andreassen, J. J. Benn, K. G. Olesen, and E. R. Carson, *Causal probabilistic network modeling—An illustration of its role in the management of chronic diseases* 31, 4, 635 (1992); G321-5490.
- Howard, J. A., see Baily, J. H., 13, 3, 253 (1974).
- Howarth, R. J., and B. G. Platte, *The continuing evolution of Advanced Function Printing* 32, 4, 665 (1993); G321-5529.
- Howry, S. K., see McGee, W. C., 7, 3/4, 342 (1968).
- Hubbard, G. U., see Raver, N., 16, 3, 287 (1977).
- Humphrey, W. S., *The IBM large-systems software development process: Objectives and direction* 24, 2, 76 (1985).
- Hunsinger, L. E., see Stacy, E. W., 8, 3, 220 (1969).
- Hunter, J. C., see Capper, N. P., 33, 1, 131 (1994).
- Huth, H. T., see McEnroe, P. V., 14, 1, 3 (1975).
- Iacobucci, E. E., see Weingarten, R. A., 22, 4, 387 (1983).
- Irlbeck, B. W., *Network and system automation and remote system operation* 31, 2, 206 (1992); G321-5470.
- Ish-Shalom, J., see Korein, J. U., 26, 1, 55 (1987).
- Iverson, K. E., *Programming notation in systems design* 2, June, 117 (1963).
- Iverson, K. E., see Falkoff, A. D., 3, 2/3, 198 (1964).
- Iverson, K. E., *A personal view of APL* 30, 4, 582 (1991).
- Ives, B., S. L. Jarvenpaa, and R. O. Mason, *Global business drivers: Aligning information technology to global business strategy* 32, 1, 143 (1993); G321-5507.
- Iwaskiw, C. T., see Burns, N. A., 25, 2, 236 (1986).
- Jackson, K. M., see Osisek, D. L., 30, 1, 34 (1991).
- Jackson, R. D., see Haderle, D. J., 23, 2, 112 (1984).

- Jacobs, J. H., and T. J. Dillon, *Interactive Saturn flight program simulator* 9, 2, 145 (1970).
- Jacobsen, J. D., *Interactive Graphics in Data Processing: Geometric relationships for retrieval of geographic information* 7, 3/4, 331 (1968).
- Jaffe, J. F., see Auslander, M. A., 12, 4, 368 (1973).
- Jaffe, J. M., F. H. Moss, and R. A. Weingarten, *SNA routing: Past, present, and possible future* 22, 4, 417 (1983).
- Jaffe, J. M., see Goldstein, B. C., 26, 1, 122 (1987).
- James, M. F., see Capper, N. P., 33, 1, 131 (1994).
- Janson, P., R. Molva, and S. Zatti, *Architectural directions for opening IBM networks: The case of OSI* 31, 2, 313 (1992); G321-5476.
- Jarvenpaa, S. L., see Ives, B., 32, 1, 143 (1993).
- Jasper, P. Y., see Bhandari, I., 33, 1, 182 (1994).
- Jeger, F., see Schlatter, M., 33, 2, 239 (1994).
- Jennings, T., *Estimating the fault rate function* 31, 2, 300 (1992); G321-5475.
- Jensen, D. L., and A. J. King, *A decomposition method for quadratic programming* 31, 1, 39 (1992); G321-5459.
- Jensen, D. L., and A. J. King, *Frontier: A graphical interface for portfolio optimization in a piecewise linear-quadratic risk framework* 31, 1, 62 (1992); G321-5461.
- Jensen, J. R., and K. A. Beaty, *Putting a new face on APL2* 30, 4, 469 (1991).
- Jensen, K., see Heidorn, G. E., 21, 3, 305 (1982).
- Jensen, R. M., *A formal approach for communication between logically isolated virtual machines* 18, 1, 71 (1979).
- Jephson, J. S., R. P. McQuarrie, and R. E. Vogelsberg, *A three-value computer design verification system* 8, 3, 178 (1969).
- Johnson, C. I., *Interactive Graphics in Data Processing: Principles of interactive systems* 7, 3/4, 147 (1968).
- Johnson, D. B., G. M. Dolan, M. J. Kelly, A. V. Le, and S. M. Matyas, *Common Cryptographic Architecture Cryptographic Application Programming Interface* 30, 2, 130 (1991).
- Johnson, D. B., and G. M. Dolan, *Transaction Security System extensions to the Common Cryptographic Architecture* 30, 2, 230 (1991).
- Johnson, D. B., see Le, A. V., 32, 3, 461 (1993).
- Johnson, D. L., see Gladney, H. M., 14, 4, 314 (1975).
- Johnson, E. L., see Chen, R., 17, 1, 82 (1978).
- Johnson, E. L., see Anbil, R., 31, 1, 71 (1992).
- Johnson, E. L., and G. L. Nemhauser, *Recent developments and future directions in mathematical programming* 31, 1, 79 (1992); G321-5463.
- Johnson, H., see Buss, E., 33, 3, 477 (1994).
- Johnson, S. K., see Percival, L. C., 25, 1, 92 (1986).
- Jones, A. L., see Niehoff, W. H., 19, 3, 367 (1980).
- Jones, A. U., *A user-oriented data-base retrieval system* 16, 1, 4 (1977).
- Jones, C. L., *A process-integrated approach to defect prevention* 24, 2, 150 (1985).
- Jones, C. L., see Mays, R. G., 29, 1, 4 (1990).
- Jones, H. C., see Anastassiou, D., 22, 1/2, 97 (1983).
- Jones, J. H., see Eade, D. J., 16, 3, 258 (1977).
- Jones, K., see Bhandari, I., 33, 1, 182 (1994).
- Jones, T. C., *Measuring programming quality and productivity* 17, 1, 39 (1978).
- Jordan, Stanley, and Erik S. Friis, *The foundations of suitability of APL2 for music* 30, 4, 513 (1991).
- Joslin, P. H., *System Productivity Facility* 20, 4, 388 (1981).
- Judisch, J. M., B. A. Rupp, and R. A. Dassinger, *Effects of manual style on performance in education and machine maintenance* 20, 2, 172 (1981).
- Kaas-Petersen, C., see Geihs, K., 31, 4, 711 (1992).
- Kahn, S., *An overview of three relational data base products* 23, 2, 100 (1984).
- Kaiser, G. E., see Heineman, G. T., 33, 3, 501 (1994).
- Kaiser, P. H., see Bethke, F. J., 20, 3, 306 (1981).
- Kamel, A., M. Kindelan, and P. Sguazzero, *Seismic computations on the IBM 3090 Vector Multiprocessor* 27, 4, 510 (1988).
- Kamel, M. S., H. C. Shen, A. K. C. Wong, and R. I. Campeanu, *System for the recognition of human faces* 32, 2, 307 (1993); G321-5515.
- Kämper, J., see Fanderl, H., 31, 4, 728 (1992).
- Kan, S. H., *Modeling and software development quality* 30, 3, 351 (1991).
- Kan, S. H., V. R. Basili, and L. N. Shapiro, *Software quality: An overview from the perspective of total quality management* 33, 1, 4 (1994); G321-5530.
- Kan, S. H., S. D. Dull, D. N. Amundson, R. J. Lindner, and R. J. Hedger, *AS/400 software quality management* 33, 1, 62 (1994); G321-5533.
- Kanyuh, D., *An integrated network management product* 27, 1, 45 (1988).
- Karjoth, G., see Binding, C., 31, 4, 668 (1992).
- Karp, D. P., see McKay, D. B., 12, 1, 94 (1973).
- Karp, R. M., see Held, M., 4, 2, 136 (1965).
- Kasson, J. M., *An advanced voice/data telephone switching system* 25, 3/4, 380 (1986).
- Katz, R. L., *Business/enterprise modeling* 29, 4, 509 (1990).
- Katz, S., L. J. Risan, and M. Rodeh, *A system for constructing linear programming models* 19, 4, 505 (1980).
- Keefe, D. D., *Hierarchical control programs for systems evaluation* 7, 2, 123 (1968).
- Keehn, D. G., and J. O. Lacy, *VSAM data set design parameters* 13, 3, 186 (1974).
- Keeley, J. F., *An application-oriented multiprocessing system, Part I: Introduction* 6, 2, 78 (1967).
- Keen, P. G. W., *Information technology and the management difference: A fusion map* 32, 1, 17 (1993); G321-5501.
- Kelisky, R. P., see Doherty, W. J., 18, 1, 143 (1979).
- Kellner, M. I., see Heineman, G. T., 33, 3, 501 (1994).
- Kelly, M. J., see Johnson, D. B., 30, 2, 130 (1991).
- Kemmis, J. F., see Perry, B. T., 29, 3, 467 (1990).
- Kermani, P., see Sultan, R. A., 26, 4, 429 (1987).
- Kersey, J. R., see Donnan, R. A., 13, 2, 140 (1974).
- Key, M., see Oshisanwo, A. O., 31, 4, 691 (1992).
- Kiely, S. C., *An operating system for distributed processing—DPPX* 18, 4, 507 (1979).
- Kim, C.-K., see Gongla, P., 28, 4, 628 (1989).
- Kindelan, M., see Kamel, A., 27, 4, 510 (1988).
- King, A. J., see Jensen, D. L., 31, 1, 39 (1992).

- King, A. J., see Jensen, D. L., 31, 1, 62 (1992).
- King, G. M., see Singh, Y., 25, 1, 20 (1986).
- King, G. M., see Cohen, E. I., 28, 1, 62 (1989).
- King, J. C., see Chamberlin, D. D., 21, 3, 250 (1982).
- King, J. H., Jr., see Griffin, J. S., Jr., 2, September-December, 248 (1963).
- King, W. F., see Blasgen, M. W., 20, 1, 41 (1981).
- Kingman, L. C., III, R. E. Lambert, and R. P. Steen, *Operational image systems: A new opportunity* 29, 3, 304 (1990).
- Kingston, P. L., *Concepts of financial models* 12, 2, 113 (1973).
- Kistler, W., see Hanssmann, F., 10, 4, 305 (1971).
- Klein, D. A., see Milliken, K. R., 25, 2, 159 (1986).
- Knapman, J. M., see Elliott, P. J., 31, 4, 620 (1992).
- Kobayashi, Y., see Sy, K. K., 26, 2, 157 (1987).
- Kogan, M. S., and F. L. Rawson III, *The design of Operating System/2* 27, 2, 90 (1988).
- Koide, A., *Designing molecules and crystals by computer* 28, 4, 613 (1989).
- Kolkhorst, B., see Billings, C., 33, 1, 46 (1994).
- Kolsky, H. G., *Problem formulation using APL* 8, 3, 204 (1969).
- Kolsky, H. G., and R. A. MacKinnon, *History and contributions of the IBM Scientific Centers* 28, 4, 502 (1989).
- Konheim, A. G., M. H. Mack, R. K. McNeill, B. Tuckerman, and G. Waldbaum, *The IPS cryptographic programs* 19, 2, 253 (1980).
- Konsynski, B. R., *Strategic control in the extended enterprise* 32, 1, 111 (1993); G321-5506.
- Kontogiannis, K., see Buss, E., 33, 3, 477 (1994).
- Korein, J. U., and J. Ish-Shalom, *Robotics* 26, 1, 55 (1987).
- Korn, P. A., J. P. McAdaragh, and C. L. Tondo, *Expanded personal computing power and capability* 24, 1, 26 (1985).
- Kossack, C. F., *Optimum response analysis* 2, March, 49 (1963).
- Kossack, C. F., *Statistical classification techniques* 2, June, 136 (1963).
- Koster, L. R., see McCrossin, J. M., 17, 3, 260 (1978).
- Koved, L., and G. Waldbaum, *Improving availability of software subsystems through on-line error detection* 25, 1, 105 (1986).
- Kozuh, F. T., D. L. Livingston, and T. C. Spillman, *System/370 capability in a desktop computer* 23, 3, 245 (1984).
- Kraemer, W., *Performance investigations with a DOS/VS-based operating system model* 17, 4, 409 (1978).
- Krasnow, H. S., see Boyd, D. F., 2, March, 2 (1963).
- Krasnow, H. S., see Boyd, D. F., 3, 1, 51 (1964).
- Kravitz, J. K., D. Lieber, F. H. Robbins, and J. M. Palermo, *Workstations and mainframe computers working together* 25, 1, 116 (1986).
- Kuki, H., and J. Ascoly, *FORTRAN extended-precision library* 10, 1, 39 (1971).
- Kunz, J. C., see Ten Dyke, R. P., 28, 3, 465 (1989).
- Lacy, J. O., see Keehn, D. G., 13, 3, 186 (1974).
- Lafuente, J. M., *Interactive Graphics in Data Processing: Cam design on a graphics console* 7, 3/4, 365 (1968).
- Laird, J. A., *The Power Profile—An installation management tool* 14, 3, 264 (1975).
- Lambert, G. N., *A comparative study of system response time on program developer productivity* 23, 1, 36 (1984).
- Lambert, R. E., see Kingman, L. C., III, 29, 3, 304 (1990).
- Lamberti, D. M., see Prager, J. M., 29, 1, 141 (1990).
- Lancto, D. C., and R. L. Rockefeller, *An application-oriented multiprocessing system, Part IV: The operational error analysis program* 6, 2, 103 (1967).
- Lande, H. F., *Planning-data systems* 12, 2, 145 (1973).
- Larner, R., *Design of an integrated programming and operating system, Part IV: The system's FORTRAN compiler* 2, September-December, 311 (1963).
- Larson, P.-Å., see Slonim, J., 33, 3, 382 (1994).
- Larson, P.-Å., see Bauer, M. A., 33, 3, 399 (1994).
- Latham, W. H., see Burrige, J. M., 28, 4, 548 (1989).
- Latham, W. H., and S. J. P. Todd, *Technical note—Computer sculpture* 28, 4, 682 (1989).
- Laurer, G. J., see Savir, D., 14, 1, 16 (1975).
- Lavelle, P. J., see de Freitas, S. L., 17, 1, 26 (1978).
- Le, A. V., see Johnson, D. B., 30, 2, 130 (1991).
- Le, A. V., see Matyas, S. M., 30, 2, 175 (1991).
- Le, A. V., S. M. Matyas, D. B. Johnson, and J. D. Wilkins, *A public key extension to the Common Cryptographic Architecture* 32, 3, 461 (1993); G321-5521.
- Leach, J. R., and R. D. Campenni, *A sidestream approach using a small processor as a tool for managing communication systems* 19, 1, 120 (1980).
- Leavenworth, B. M., see Archibald, J. L., 22, 3, 170 (1983).
- Lee, E., see Billings, C., 33, 1, 46 (1994).
- Lehman, M. M., see Shedler, G. S., 6, 3, 142 (1967).
- Lehman, M. M., see Belady, L. A., 15, 3, 225 (1976).
- Leibowitz, M., see Aharon, A., 30, 4, 527 (1991).
- Lennon, R. E., *Cryptography architecture for information security* 17, 2, 138 (1978).
- Lenz, N. G., and S. F. L. Saelens, *A knowledge-based system for MVS dump analysis* 30, 3, 336 (1991).
- Lepori-Costello, C., see Bhandari, I., 33, 1, 182 (1994).
- Lerner, M. A., see Gray, J. P., 22, 4, 298 (1983).
- Lewis, C. C., see Bhandari, I., 33, 1, 182 (1994).
- Lewis, L. J., *Service levels: A concept for the user and the computer center* 15, 4, 328 (1976).
- Lewis, P. A. W., *A computer program for the statistical analysis of series of events* 5, 4, 202 (1966).
- Lewis, P. A. W., A. S. Goodman, and J. M. Miller, *A pseudo-random number generator for the System/360* 8, 2, 136 (1969).
- Lewis, P. R., see Luftman, J. N., 32, 1, 198 (1993).
- Lewis, S. M., see Anderson, G. B., 29, 3, 398 (1990).
- Leymann, F., and W. Altenhuber, *Managing business processes as an information resource* 33, 2, 326 (1994); G321-5545.
- Lieber, D., see Kravitz, J. K., 25, 1, 116 (1986).
- Lind, R. A., see Seaman, P. H., 5, 3, 158 (1966).
- Linden, D. J., see Hagamen, W. D., 11, 4, 278 (1972).
- Linden, D. J., see Hagamen, W. D., 14, 2, 102 (1975).
- Lindner, R. J., see Sulack, R. A., 28, 3, 386 (1989).
- Lindner, R. J., see Kan, S. H., 33, 1, 62 (1994).

- Lindsay, B. G., see Blasgen, M. W., 20, 1, 41 (1981).
- Linehan, M. H., see Mendelsohn, N., 22, 1/2, 63 (1983).
- Ling, D. T., see Matick, R. E., 23, 3, 264 (1984).
- Linger, R. C., *The management of software engineering, Part III: Software design practices* 19, 4, 432 (1980).
- Linger, R. C., see Mills, H. D., 26, 4, 395 (1987).
- Linger, R. C., see Hausler, P. A., 33, 1, 89 (1994).
- Linnemann, V., see Dadam, P., 28, 4, 661 (1989).
- Liptay, J. S., *Structural aspects of the System/360 Model 85, Part II: The cache* 7, 1, 15 (1968).
- Livingston, D. L., see Kozuh, F. T., 23, 3, 245 (1984).
- Loeb, D. J., see Milliken, K. R., 25, 2, 159 (1986).
- Loewner, P. G., *Fabrication and assembly operations, Part III: Matrix methods for processing configuration data* 4, 2, 105 (1965).
- Logan, D., see Clementi, E., 27, 4, 475 (1988).
- Long, H. S., see Hagamen, W. D., 11, 4, 278 (1972).
- Longley, D., and S. M. Matyas, *Technical note—Complementarity attacks and control vectors* 32, 2, 321 (1993); G321-5516.
- Loosley, C. R., see Cheng, J. M., 23, 2, 189 (1984).
- Lopez, L., see Halpern, P., 26, 2, 201 (1987).
- Lorie, R. A., see Blasgen, M. W., 20, 1, 41 (1981).
- Lorin, H., *A guided bibliography to sorting* 10, 3, 244 (1971).
- Lorin, H., *Distributed processing: An assessment* 18, 4, 582 (1979).
- Lorin, H., *Systems architecture in transition—An overview* 25, 3/4, 256 (1986).
- Loucks, L. K., and C. H. Sauer, *Advanced Interactive Executive (AIX) operating system overview* 26, 4, 326 (1987).
- Loughlin, M. B., see Goodrich, C., 29, 1, 106 (1990).
- Low, D. W., see Brown, J. F., 12, 2, 172 (1973).
- Lowenstein, R. A., see Engel, G. H., 18, 3, 402 (1979).
- Lozupone, D. F., see Angeleri, P., 27, 4, 541 (1988).
- Lu, P., see Tai, K.-C., 33, 3, 445 (1994).
- Luetje, J. H., *Interactive aeronautical charting* 9, 3, 219 (1970).
- Luftman, J. N., P. R. Lewis, and S. H. Oldach, *Transforming the enterprise: The alignment of business and information technology strategies* 32, 1, 198 (1993); G321-5510.
- Lukes, J. A., see Gecsei, J., 13, 2, 163 (1974).
- Lum, V. Y., D. M. Choy, and N. C. Shu, *OPAS: An office procedure automation system* 21, 3, 327 (1982).
- Lynch, H. W., and J. B. Page, *The OS/VS2 Release 2 System Resources Manager* 13, 4, 274 (1974).
- Lyon, L. E., see Hassitt, A., 15, 4, 358 (1976).
- Mack, M. H., see Konheim, A. G., 19, 2, 253 (1980).
- MacKinnon, R. A., *Advanced function extended with tightly-coupled multiprocessing* 13, 1, 32 (1974).
- MacKinnon, R. A., see Seawright, L. H., 18, 1, 4 (1979).
- MacKinnon, R. A., *The changing virtual machine environment: Interfaces to real hardware, virtual hardware, and other virtual machines* 18, 1, 18 (1979).
- MacKinnon, R. A., see Kolsky, H. G., 28, 4, 502 (1989).
- Madhavji, N. H., see Heineman, G. T., 33, 3, 501 (1994).
- Madnick, S. E., see Donovan, J. J., 14, 2, 188 (1975).
- Maerker, K., see Bleher, J. H., 19, 3, 382 (1980).
- Maggiore, M., see Papetti, F., 31, 4, 774 (1992).
- Mai, K. F., see Hagamen, W. D., 14, 2, 102 (1975).
- Major, J. B., *Processor, I/O path, and DASD configuration capacity* 20, 1, 63 (1981).
- Malhotra, A., see Pazel, D. P., 22, 3, 188 (1983).
- Maly, R. R., see Hebecker, F. K., 31, 4, 788 (1992).
- Mancini, R. J., *Performance analysis for the Skylab terminal system* 13, 2, 94 (1974).
- Mann, A., see Geihs, K., 31, 4, 711 (1992).
- Maranzana, F. E., *On the location of supply points to minimize transportation costs* 2, June, 129 (1963).
- Margolin, B. H., R. P. Parmelee, and M. Schatzoff, *Analysis of free-storage algorithms* 10, 4, 283 (1971).
- Margopoulos, W. P., and R. J. Williams, *On teleprocessing system design, Part I: Characteristic problems* 5, 3, 134 (1966).
- Markov, J. D., see Dixon, R. C., 22, 1/2, 47 (1983).
- Markowitz, H. M., see Dimsdale, B., 3, 1, 57 (1964).
- Markowitz, H. M., see Pazel, D. P., 22, 3, 188 (1983).
- Marks, B. L., *Design of a checkout compiler* 12, 3, 315 (1973).
- Markstein, P. W., see Attanasio, C. R., 15, 1, 102 (1976).
- Marlin, J. W., see deBry, R. K., 27, 2, 234 (1988).
- Marques, M. M., see Dauphin, M., 31, 4, 649 (1992).
- Martin, R. W., see Raimondi, D. L., 15, 1, 81 (1976).
- Martins, R. C. B., see de Lima, A. H. V., 28, 4, 580 (1989).
- Maruyama, K., *Defining routing tables for SNA networks* 22, 4, 435 (1983).
- Maslak, B. A., J. M. Showalter, and T. J. Szczygielski, *Coordinated Resource Recovery in VM/ESA* 30, 1, 72 (1991).
- Mason, R. O., see Ives, B., 32, 1, 143 (1993).
- Masullo, M. J., see Milliken, K. R., 25, 2, 159 (1986).
- Matick, R. E., and D. T. Ling, *Architecture implications in the design of microprocessors* 23, 3, 264 (1984).
- Matick, R. E., *Impact of memory systems on computer architecture and system organization* 25, 3/4, 274 (1986).
- Mathews, R. W., and W. C. McGee, *Data modeling for software development* 29, 2, 228 (1990).
- Mattos, N. M., see Cheng, J. M., 33, 2, 264 (1994).
- Mattson, R. L., J. Gecsei, D. R. Slutz, and I. L. Traiger, *Evaluation techniques for storage hierarchies* 9, 2, 78 (1970).
- Matyas, S. M., see Ehrtam, W. F., 17, 2, 106 (1978).
- Matyas, S. M., and C. H. Meyer, *Generation, distribution, and installation of cryptographic keys* 17, 2, 126 (1978).
- Matyas, S. M., see Johnson, D. B., 30, 2, 130 (1991).
- Matyas, S. M., *Key handling with control vectors* 30, 2, 151 (1991).
- Matyas, S. M., A. V. Le, and D. G. Abraham, *A key-management scheme based on control vectors* 30, 2, 175 (1991).
- Matyas, S. M., see Longley, D., 32, 2, 321 (1993).
- Matyas, S. M., see Le, A. V., 32, 3, 461 (1993).
- Maurer, M. E., *Full-screen testing of interactive applications* 22, 3, 246 (1983).

- Mayadas, A. F., R. C. Durbeck, W. D. Hinsberg, and J. M. McCrossin, *The evolution of printers and displays* 25, 3/4, 399 (1986).
- Mays, R. G., L. S. Orzech, W. A. Ciarfella, and R. W. Phillips, *PDM: A requirements methodology for software system enhancements* 24, 2, 134 (1985).
- Mays, R. G., C. L. Jones, G. J. Holloway, and D. P. Studinski, *Experiences with Defect Prevention* 29, 1, 4 (1990).
- Mays, R. G., *Forging a silver bullet from the essence of software* 33, 1, 20 (1994); G321-5531.
- McAdaragh, J. P., see Korn, P. A., 24, 1, 26 (1985).
- McClelland, P., see Banham, J. A., 11, 4, 329 (1972).
- McComb, J., and S. Schmidt, *Engineering and Scientific Subroutine Library for the IBM 3090 Vector Facility* 27, 4, 404 (1988).
- McComb, J., see Agarwal, R. C., 28, 2, 345 (1989).
- McCrossin, J. M., R. P. O'Hara, and L. R. Koster, *A time-sharing display terminal session manager* 17, 3, 260 (1978).
- McCrossin, J. M., see Mayadas, A. F., 25, 3/4, 399 (1986).
- McCue, Gerald M., *IBM's Santa Teresa Laboratory—Architectural design for program development* 17, 1, 4 (1978).
- McEnroe, P. V., H. T. Huth, E. A. Moore, and W. W. Morris III, *Overview of the Supermarket System and the Retail Store System* 14, 1, 3 (1975).
- McFadyen, J. H., *Systems Network Architecture: An overview* 15, 1, 4 (1976).
- McGee, W. C., *On dynamic program relocation* 4, 3, 184 (1965).
- McGee, W. C., H. R. Penafiel, and S. K. Howry, *Interactive Graphics in Data Processing: Analysis and display of physics data* 7, 3/4, 342 (1968).
- McGee, W. C., *The information management system IMS/VS, Part I: General structure and operation* 16, 2, 84 (1977).
- McGee, W. C., *The information management system IMS/VS, Part II: Data base facilities* 16, 2, 96 (1977).
- McGee, W. C., *The information management system IMS/VS, Part III: Batch processing facilities* 16, 2, 123 (1977).
- McGee, W. C., *The information management system IMS/VS, Part IV: Data communication facilities* 16, 2, 136 (1977).
- McGee, W. C., *The information management system IMS/VS, Part V: Transaction processing facilities* 16, 2, 148 (1977).
- McGee, W. C., see Matthews, R. W., 29, 2, 228 (1990).
- McGehe, J. D., see Dunfee, W. P., 27, 3, 325 (1988).
- McGrath, M., *Virtual machine computing in an engineering environment* 11, 2, 131 (1972).
- McIntyre, D. B., *Language as an intellectual tool: From hieroglyphics to APL* 30, 4, 554 (1991).
- McKay, D. B., and D. P. Karp, *Protocol for a computer network* 12, 1, 94 (1973).
- McKinstry, R. H., see Arnold, J. S., 13, 1, 60 (1974).
- McManigal, D. F., and D. A. Stevenson, *Architecture of the IBM 3277 Graphics Attachment* 19, 3, 331 (1980).
- McNeill, R. K., see Konheim, A. G., 19, 2, 253 (1980).
- McNeill, T. B., see Gray, J. P., 18, 2, 263 (1979).
- McNutt, B., *I/O subsystem configurations for ESA: New roles for processor storage* 32, 2, 252 (1993); G321-5512.
- McPhee, W. S., *Operating system integrity in OS/VS2* 13, 3, 230 (1974).
- McQuarrie, R. P., see Jephson, J. S., 8, 3, 178 (1969).
- Mealy, G. H., *The functional structure of OS/360, Part I: Introductory survey* 5, 1, 3 (1966).
- Meggitt, J. E., *A character computer for high-level language interpretation* 3, 1, 68 (1964).
- Mehl, J. W., see Blasgen, M. W., 20, 1, 41 (1981).
- Mei, V., see Ricour, D. H., 6, 1, 38 (1967).
- Mendelsohn, N., M. H. Linehan, and W. J. Anzick, *Reflections on VM/Pass-Through: A facility for interactive networking* 22, 1/2, 63 (1983).
- Mendelzon, A. O., see Consens, M. P., 33, 3, 458 (1994).
- Mendoza, A. G., *An economic lot-sizing technique, Part II: Mathematical analysis of the part-period algorithm* 7, 1, 39 (1968).
- Mercurio, V. J., B. F. Meyers, A. M. Nisbet, and G. Radin, *AD/Cycle strategy and architecture* 29, 2, 170 (1990).
- Merlo, E., see Buss, E., 33, 3, 477 (1994).
- Metz, W. C., Jr., and D. Savir, *Store performance studies for the Supermarket System* 14, 1, 46 (1975).
- Meyer, C. H., see Ehram, W. F., 17, 2, 106 (1978).
- Meyer, C. H., see Matyas, S. M., 17, 2, 126 (1978).
- Meyer, G. E., see Szabat, M. M., 31, 2, 154 (1992).
- Meyer, R. A., and L. H. Seawright, *A virtual machine time-sharing system* 9, 3, 199 (1970).
- Meyers, B. F., see Mercurio, V. J., 29, 2, 170 (1990).
- Miller, E., see Zatti, S., 31, 2, 353 (1992).
- Miller, J. M., see Lewis, P. A. W., 8, 2, 136 (1969).
- Miller, L. A., *Natural language programming: Styles, strategies, and contrasts* 20, 2, 184 (1981).
- Miller, L. A., see Heidorn, G. E., 21, 3, 305 (1982).
- Milliken, K. R., A. V. Cruise, R. L. Ennis, A. J. Finkel, J. L. Hellerstein, D. J. Loeb, D. A. Klein, M. J. Masullo, H. M. Van Woerkom, and N. B. Waite, *YES/MVS and the automation of operations for large computer complexes* 25, 2, 159 (1986).
- Mills, H. D., *The management of software engineering, Part I: Principles of software engineering* 19, 4, 414 (1980).
- Mills, H. D., R. C. Linger, and A. R. Hevner, *Box structured information systems* 26, 4, 395 (1987).
- Mills, H. D., see Hevner, A. R., 32, 2, 232 (1993).
- Minkoff, A. S., *A systematic approach to OSL application programming* 31, 1, 49 (1992); G321-5460.
- Mishevich, D. J., and D. Van Slyke, *Application development system: The software architecture of the IBM Health Care Support/DLI-Patient Care System* 19, 4, 478 (1980).
- Misra, M., see Cordell, R. Q., II, 26, 4, 361 (1987).
- Misra, P. N., *Capacity analysis of the Mass Storage System* 20, 3, 346 (1981).
- Misra, P. N., *Software reliability analysis* 22, 3, 262 (1983).
- Mitchell, J. L., see Anastassiou, D., 22, 1/2, 97 (1983).
- Mizell, A. M., *Understanding device drivers in Operating System/2* 27, 2, 170 (1988).
- Mohan, C., H. Pirahesh, W. G. Tang, and Y. Wang, *Parallelism in relational database management systems* 33, 2, 349 (1994); G321-5546.

- Molva, R., see Janson, P., **31**, 2, 313 (1992).
- Montalbano, M., *Tables, flow charts, and program logic* **1**, September, 51 (1962).
- Montalbano, M., *High-speed calculation of the critical paths of large networks* **6**, 3, 163 (1967).
- Moore, D. J., *Teletex—A worldwide link among office systems for electronic document exchange* **22**, 1/2, 30 (1983).
- Moore, D. J., *Multimedia presentation development using the Audio Visual Connection* **29**, 4, 494 (1990).
- Moore, E. A., see McEnroe, P. V., **14**, 1, 3 (1975).
- Moore, R. E., *Utilizing the SNA Alert in the management of multivendor networks* **27**, 1, 15 (1988).
- Moore, R. S., *Evolution of a laboratory communication network* **18**, 2, 315 (1979).
- Morris, H. M., and R. H. Orth, *Image system communications* **29**, 3, 371 (1990).
- Morris, W. W., III, see McEnroe, P. V., **14**, 1, 3 (1975).
- Morrison, J. E., *User program performance in virtual storage systems* **12**, 3, 216 (1973).
- Morrison, J. P., *Data Stream Linkage Mechanism* **17**, 4, 383 (1978).
- Morse, S. P., see Baskin, H. B., **7**, 3/4, 218 (1968).
- Moss, E., see Walrad, C., **32**, 3, 445 (1993).
- Moss, F. H., see Jaffe, J. M., **22**, 4, 417 (1983).
- Moss, F. H., see Goldstein, B. C., **23**, 3, 236 (1984).
- Mouton, J. A., Jr., see Goldberg, S. H., **30**, 3, 259 (1991).
- Mudie, M. W., and D. J. Schafer, *An information technology architecture for change* **24**, 3/4, 307 (1985).
- Mueller, J. H., *Aspects of the Gemini real-time operating system* **6**, 3, 150 (1967).
- Mugele, R. A., *A program for optimal control of nonlinear processes* **1**, September, 2 (1962).
- Mullen, J. J., see Addink, M., **29**, 3, 451 (1990).
- Müller, H. A., see Buss, E., **33**, 3, 477 (1994).
- Mullery, A. P., see Dauphin, M., **31**, 4, 649 (1992).
- Mullery, A. P., see Oshisanwo, A. O., **31**, 4, 691 (1992).
- Munger, M. W., see deBry, R. K., **32**, 4, 647 (1993).
- Munn, J. E., see Rose, D. B., **27**, 1, 3 (1988).
- Munnis, P. E., see Radice, R. A., **24**, 2, 91 (1985).
- Munoz, C. U., see Bird, D. L., **22**, 3, 229 (1983).
- Murphy, P. T., see Devlin, B. A., **27**, 1, 60 (1988).
- Murray, W. H., *Security considerations for personal computers* **23**, 3, 297 (1984).
- Musa, M. A., see Bennett, R. B., **30**, 1, 90 (1991).
- Musgrave, J. F., *Experiments in computer-aided graphic expression* **17**, 3, 241 (1978).
- Myers, G. J., see Stevens, W. P., **13**, 2, 115 (1974).
- Myers, G. J., *Composite design facilities of six programming languages* **15**, 3, 212 (1976).
- Myers, J. J., see Gladney, H. M., **14**, 3, 212 (1975).
- Myers, J. J., see Considine, J. P., **16**, 4, 378 (1977).
- Mylopoulos, J., see Buss, E., **33**, 3, 477 (1994).
- Myre, W. W., see Chang, P. Y., **27**, 2, 105 (1988).
- Nagler, Harry, *Recovery for computer switchover in a real-time system* **2**, March, 76 (1963).
- Nahouraii, E., *Direct-access device simulation* **13**, 1, 19 (1974).
- Neal, A. S., and R. M. Simons, *Playback: A method for evaluating the usability of software and its documentation* **23**, 1, 82 (1984).
- Neal, D. H., see Corr, F. P., **18**, 2, 244 (1979).
- Nemhauser, G. L., see Johnson, E. L., **31**, 1, 79 (1992).
- Nettleship, T. S., see Stone, R. L., **30**, 1, 52 (1991).
- Neuhold, E. J., *The formal description of programming languages* **10**, 2, 86 (1971).
- Newell, S. M., see Hagamen, W. D., **14**, 2, 102 (1975).
- Newitt, J. W., and A. Odarchenko, *A structure for real-time Stenotype transcription* **9**, 1, 24 (1970).
- Newman, P. S., *Towards an integrated development environment* **21**, 1, 81 (1982).
- Newson, S. R., see Blandy, G. O., **28**, 1, 175 (1989).
- Newton, J., *Strategies for problem prevention* **24**, 3/4, 248 (1985).
- Nguyen, H. C., A. Ockene, R. Revell, and W. J. Skwish, *The role of detailed simulation in capacity planning* **19**, 1, 81 (1980).
- Niehoff, W. H., and A. L. Jones, *An APL approach to presentation graphics* **19**, 3, 367 (1980).
- Niemi, F., see Chou, J. H., **31**, 2, 270 (1992).
- Nisbet, A. M., see Mercurio, V. J., **29**, 2, 170 (1990).
- Noble, A. S., Jr., *Design of an integrated programming and operating system, Part I: System considerations and the monitor* **2**, June, 153 (1963).
- Noik, E. G., see Consens, M. P., **33**, 3, 458 (1994).
- Norden, P. V., *Quantitative techniques in strategic alignment* **32**, 1, 180 (1993); G321-5509.
- Oberhuber, J. M., see Aukrust, T., **31**, 4, 798 (1992).
- Ockene, A., see Nguyen, H. C., **19**, 1, 81 (1980).
- Odarchenko, A., see Newitt, J. W., **9**, 1, 24 (1970).
- Odom, J. E., *Using box structures for definition of requirements specifications* **29**, 1, 59 (1990).
- O'Hara, A. C., Jr., see Radice, R. A., **24**, 2, 79 (1985).
- O'Hara, R. P., see McCrossin, J. M., **17**, 3, 260 (1978).
- O'Hare, A. B., and E. W. Troan, *RE-Analyzer: From source code to structured analysis* **33**, 1, 110 (1994); G321-5535.
- Ohms, B. G., *Computer processing of dates outside the twentieth century* **25**, 2, 244 (1986).
- Ojala, R. N., see Dash, J. R., **23**, 2, 165 (1984).
- Okaya, Y., see Cole, H., **2**, September–December, 240 (1963).
- Okaya, Y., *Interactive Graphics in Data Processing: Interactive aspects of crystal structure analysis* **7**, 3/4, 322 (1968).
- Oldach, S. H., see Luftman, J. N., **32**, 1, 198 (1993).
- Olesen, K. G., see Hovorka, R., **31**, 4, 635 (1992).
- Ominsky, M., *Human factors in the development of a family of plant data communication terminals* **20**, 2, 216 (1981).
- O'Neill, D., *The management of software engineering, Part II: Software engineering program* **19**, 4, 421 (1980).
- Orlicky, Joseph A., *Net change material requirements planning* **12**, 1, 2 (1973).
- Ort, E., see Bethke, F. J., **20**, 3, 306 (1981).
- Orth, R. H., see Morris, H. M., **29**, 3, 371 (1990).
- Orzech, L. S., see Mays, R. G., **24**, 2, 134 (1985).

- Oshisanwo, A. O., M. D. Chapman, M. Key, A. P. Mullery, and J. Saint-Blancat, *The RACE Open Services Architecture project* 31, 4, 691 (1992); G321-5493.
- Osisek, D. L., K. M. Jackson, and P. H. Gum, *ESA/390 interpretive-execution architecture, foundation for VM/ESA* 30, 1, 34 (1991).
- Overly, E. A., see Appel, A., 30, 3, 393 (1991).
- Pachl, J., see Bauer, M. A., 33, 3, 399 (1994).
- Padegs, A., *The structure of SYSTEM/360, Part IV: Channel design considerations* 3, 2/3, 165 (1964).
- Padegs, A., *Structural aspects of the System/360 Model 85, Part III: Extensions to floating-point architecture* 7, 1, 22 (1968).
- Page, J. B., see Lynch, H. W., 13, 4, 274 (1974).
- Painter, L. D., see Dinan, R. F., 29, 3, 421 (1990).
- Palermo, F. P., see Weller, D. L., 19, 3, 314 (1980).
- Palermo, J. M., see Kravitz, J. K., 25, 1, 116 (1986).
- Palmiotti, A. M., see Boehm, G. E., 29, 1, 124 (1990).
- Palounek, L. R., see Hippert, R. O., Jr., 14, 1, 81 (1975).
- Papetti, F., S. Golini, M. Maggiore, S. Succi, P. Gaillard, and J.-M. Perez, *Internal combustion engine design on IBM platforms* 31, 4, 774 (1992); G321-5497.
- Paradkar, A. M., see Tai, K.-C., 33, 3, 445 (1994).
- Parker, M. M., *Enterprise information analysis: Cost-benefit analysis and the data-managed system* 21, 1, 108 (1982).
- Parmelee, R. P., see Margolin, B. H., 10, 4, 283 (1971).
- Parmelee, R. P., T. I. Peterson, C. C. Tillman, and D. J. Hatfield, *Virtual storage and virtual machine concepts* 11, 2, 99 (1972).
- Parmelee, R. P., see Holley, L. H., 18, 1, 47 (1979).
- Parr, F. N., and R. E. Strom, *NIL: A high-level language for distributed systems programming* 22, 1/2, 111 (1983).
- Patterson, D. R., see Tetzlaff, W. H., 26, 2, 215 (1987).
- Paul, S., see Buss, E., 33, 3, 477 (1994).
- Pazel, D. P., A. Malhotra, and H. M. Markowitz, *The system architecture of EAS-E: An integrated programming and data base language* 22, 3, 188 (1983).
- Pazel, D. P., *DS-Viewer—An interactive graphical data structure presentation facility* 28, 2, 307 (1989).
- Pearsall, R. J., *Technique for assessing external design of software* 21, 2, 211 (1982).
- Peck, T. G., *Worldwide systems engineering* 24, 3/4, 182 (1985).
- Penafiel, H. R., see McGee, W. C., 7, 3/4, 342 (1968).
- Pennacchi, R., see Ambrosetti, R., 23, 4, 336 (1984).
- Pennebaker, W. B., see Anastassiou, D., 22, 1/2, 97 (1983).
- Pennington, K. S., see Anastassiou, D., 22, 1/2, 97 (1983).
- Percival, L. C., and S. K. Johnson, *Network management software usability test design and implementation* 25, 1, 92 (1986).
- Perez, J.-M., see Papetti, F., 31, 4, 774 (1992).
- Perry, B. T., B. A. Wester, W. W. Baker, and J. F. Kemmis, *Experience gained in implementing ImagePlus* 29, 3, 467 (1990).
- Pessin, F. H., see Bethke, F. J., 20, 3, 306 (1981).
- Peters, A. M., see Franklin, S. M., 29, 1, 44 (1990).
- Peterson, T. I., see Parmelee, R. P., 11, 2, 99 (1972).
- Petit, A. C. R., see Boyd, D. F., 3, 1, 51 (1964).
- Phillips, G. H., see Simpson, R. O., 17, 3, 221 (1978).
- Phillips, R. J., see Attanasio, C. R., 15, 1, 102 (1976).
- Phillips, R. W., see Radice, R. A., 24, 2, 91 (1985).
- Phillips, R. W., see Mays, R. G., 24, 2, 134 (1985).
- Phippen, R. W., see Burrige, J. M., 28, 4, 548 (1989).
- Piccolo, F., see Angeleri, P., 27, 4, 541 (1988).
- Pierce, J. F., *A multi-item economic lot-sizing problem* 7, 1, 47 (1968).
- Pine, B. J., II, *Design, test, and validation of the Application System/400 through early user involvement* 28, 3, 376 (1989).
- Pine, B. J., II, see Boynton, A. C., 32, 1, 40 (1993).
- Pinter, R. Y., P. Vortman, and Z. Weiss, *Partial compilation of REXX* 30, 3, 312 (1991).
- Pirahesh, H., see Mohan, C., 33, 2, 349 (1994).
- Pitkowsky, S. H., see Conti, C. J., 7, 1, 2 (1968).
- Plachy, E. C., see Toomey, L. J., 27, 4, 416 (1988).
- Plachy, E. C., see Sahulka, R. J., 30, 3, 296 (1991).
- Plambeck, K. E., *Concepts of Enterprise Systems Architecture/370* 28, 1, 39 (1989).
- Platte, B. G., see deBry, R. K., 27, 2, 219 (1988).
- Platte, B. G., see deBry, R. K., 27, 2, 234 (1988).
- Platte, B. G., see Howarth, R. J., 32, 4, 665 (1993).
- Plesums, C. A., and R. W. Bartels, *Large-scale image systems: USAA case study* 29, 3, 343 (1990).
- Poland, C. B., see Baldwin, F. R., 1, September, 64 (1962).
- Pomeroy, J. W., *A guide to programming tools and techniques* 11, 3, 234 (1972).
- Pope, W. G., see Doherty, W. J., 25, 3/4, 306 (1986).
- Poulin, J. S., J. M. Caruso, and D. R. Hancock, *The business case for software reuse* 32, 4, 567 (1993); G321-5525.
- Power, L. R., see Belady, L. A., 19, 4, 542 (1980).
- Power, L. R., see Archibald, J. L., 22, 3, 170 (1983).
- Power, L. R., *Design and use of a program execution analyzer* 22, 3, 271 (1983).
- Powning, L. F., see Halsey, J. R., 18, 2, 223 (1979).
- Pozefsky, M., see Gray, J. P., 22, 4, 298 (1983).
- Prager, J. M., *The Project Automated Librarian* 22, 3, 214 (1983).
- Prager, J. M., D. M. Lamberti, D. L. Gardner, and S. R. Balzac, *REASON: An intelligent user assistant for interactive environments* 29, 1, 141 (1990).
- Prairie, P. L., and A. H. Weis, *IBM's directions in technical computing* 27, 4, 393 (1988).
- Prakash, A., see Buss, E., 33, 3, 477 (1994).
- Price, J. F., see Stacy, E. W., 8, 3, 220 (1969).
- Price, T. G., see Blasgen, M. W., 20, 1, 41 (1981).
- Probst, R. E., see Avers, C. D., 29, 3, 356 (1990).
- Provetero, J., see Hippert, R. O., Jr., 14, 1, 81 (1975).
- Putzolu, G. R., see Blasgen, M. W., 20, 1, 41 (1981).
- Quarendon, P., see Burrige, J. M., 28, 4, 548 (1989).
- Quarles, D. R., *Trajectory control programs in support of Apollo missions* 9, 1, 12 (1970).
- Quinnan, R. E., *The management of software engineering, Part V: Software engineering management practices* 19, 4, 466 (1980).
- Racke, W. F., see Schütt, T. E., 26, 3, 235 (1987).

- Radice, R. A., N. K. Roth, A. C. O'Hara, Jr., and W. A. Ciarfella, *A programming process architecture* 24, 2, 79 (1985).
- Radice, R. A., J. T. Harding, P. E. Munnis, and R. W. Phillips, *A programming process study* 24, 2, 91 (1985).
- Radin, G., see Mercurio, V. J., 29, 2, 170 (1990).
- Radke, C. E., *Merge-sort analysis by matrix techniques* 5, 4, 226 (1966).
- Raimondi, D. L., H. M. Gladney, G. Hochweller, R. W. Martin, and L. L. Spencer, *LABS/7—a distributed real-time operating system* 15, 1, 81 (1976).
- Rain, D. W., see Gibson, D. H., 25, 1, 36 (1986).
- Rake, S. T., see Elson, M., 9, 3, 166 (1970).
- Ramos, L., see Gongla, P., 28, 4, 628 (1989).
- Ratica, G. B., see Voelker, J. A., 25, 2, 181 (1986).
- Rauf, R. C., see Dunfee, W. P., 27, 3, 325 (1988).
- Raver, N., and G. U. Hubbard, *Automated logical data base design: Concepts and applications* 16, 3, 287 (1977).
- Ravin, J., and M. Schatzoff, *An interactive graphics system for analysis of business decisions* 12, 3, 238 (1973).
- Rawson, F. L., III, see Kogan, M. S., 27, 2, 90 (1988).
- Rawson, F. L., III, see Cook, R. L., 27, 2, 134 (1988).
- Raz, T., *Introduction of the project management discipline in a software development organization* 32, 2, 265 (1993); G321-5513.
- Rechtschaffen, R. N., *Queuing simulation using a random number generator* 11, 3, 255 (1972).
- Reeves, C. J., see Berry, R. E., 31, 3, 414 (1992).
- Reilly, P., see Burrige, J. M., 28, 4, 548 (1989).
- Reilly, P., *Data visualization in archaeology* 28, 4, 569 (1989).
- Reimer, J. A., see Anderson, G. B., 29, 3, 398 (1990).
- Reinsch, R., *Distributed database for SAA* 27, 3, 362 (1988).
- Reiser, M., see Anderson, H. A., Jr., 14, 3, 246 (1975).
- Reiser, M., *Interactive modeling of computer systems* 15, 4, 309 (1976).
- Reisman, S., and W. A. Carr, *Perspectives on multimedia systems in education* 30, 3, 280 (1991).
- Rettberg, J. W., see Halpern, P., 20, 1, 86 (1981).
- Rettus, R. C., and R. A. Smith, *Accounting control of data processing* 11, 1, 74 (1972).
- Revell, R., see Nguyen, H. C., 19, 1, 81 (1980).
- Richardson, G. L., see Hodil, E. D., 25, 2, 147 (1986).
- Ricketts, M. W., see Burrige, J. M., 28, 4, 548 (1989).
- Ricour, D. H., and V. Mei, *Internal data management techniques for DOS/360* 6, 1, 38 (1967).
- Risman, L. J., see Katz, S., 19, 4, 505 (1980).
- Robbins, F. H., see Kravitz, J. K., 25, 1, 116 (1986).
- Roberts, M. L., and P. D. Griffiths, *Design considerations for IBM Personal Computer Professional FORTRAN, an optimizing compiler* 24, 1, 49 (1985).
- Roberts, S. M., see Halpern, P., 26, 2, 201 (1987).
- Rockefeller, R. L., see Lancto, D. C., 6, 2, 103 (1967).
- Rodeh, M., see Katz, S., 19, 4, 505 (1980).
- Roden, P., see Arfman, J. M., 31, 3, 550 (1992).
- Rodier, P., see Dauphin, M., 31, 4, 649 (1992).
- Rodite, R. R., see Dinan, R. F., 29, 3, 421 (1990).
- Rofrano, J. J., see Shedletsky, J. J., 32, 4, 625 (1993).
- Rofrano, J. J., Jr., *Design considerations for distributed applications* 31, 3, 564 (1992); G321-5487.
- Rogers, G. R., *A simple architecture for consistent application program design* 22, 3, 199 (1983).
- Rogers, J. G., *Structured programming for virtual storage systems* 14, 4, 385 (1975).
- Rojas, J., see Tavera, M. L., 24, 1, 61 (1985).
- Rolia, J. A., see Bauer, M. A., 33, 3, 426 (1994).
- Rose, D. B., and J. E. Munn, *SNA network management directions* 27, 1, 3 (1988).
- Roth, N. K., see Radice, R. A., 24, 2, 79 (1985).
- Rubsam, K. G., *MVS data services* 28, 1, 151 (1989).
- Rudin, B. D., see Wilson, D. G., 31, 1, 4 (1992).
- Ruggiero, J. F., and D. A. Coryell, *An auxiliary processing system for array calculations* 8, 2, 118 (1969).
- Rully, A. D., *Interactive Graphics in Data Processing: A subroutine package for FORTRAN* 7, 3/4, 248 (1968).
- Rupp, B. A., see Judisch, J. M., 20, 2, 172 (1981).
- Ryan, R. R., and H. Spiller, *The C programming language and a C compiler* 24, 1, 37 (1985).
- Ryder, K. D., *A heuristic approach to task dispatching* 9, 3, 189 (1970).
- Ryder, K. D., *Optimizing program placement in virtual systems* 13, 4, 292 (1974).
- Ryder, K. D., see Albrecht, H. R., 15, 1, 53 (1976).
- Ryder, K. D., *An experimental address space isolation technique for SNA networks* 22, 4, 367 (1983).
- Ryman, A., *Personal systems image application architecture: Lessons learned from the ImageEdit program* 29, 3, 408 (1990).
- Ryman, A. G., see Consens, M. P., 33, 3, 458 (1994).
- Rymarczyk, J. W., see Borden, T. L., 28, 1, 104 (1989).
- Saarinen, J., see Clementi, E., 27, 4, 475 (1988).
- Sabbah, D., see Slonim, J., 33, 3, 382 (1994).
- Saelens, S. F. L., see Lenz, N. G., 30, 3, 336 (1991).
- Sagawa, J. M., *Repository Manager technology* 29, 2, 209 (1990).
- Sahulka, R. J., see Toomey, L. J., 27, 4, 416 (1988).
- Sahulka, R. J., E. C. Plachy, L. J. Scarborough, R. G. Scarborough, and S. W. White, *FORTRAN for clusters of IBM ES/3090 multiprocessors* 30, 3, 296 (1991).
- Saint-Blancat, J., see Oshisanwo, A. O., 31, 4, 691 (1992).
- Sakaki, M., H. Samukawa, and N. Honjou, *Effective utilization of IBM 3090 large virtual storage in the numerically intensive computations of ab initio molecular orbitals* 27, 4, 528 (1988).
- Sakamoto, G., see Gongla, P., 28, 4, 628 (1989).
- Sakamoto, J. G., and F. W. Ball, *Supporting Business Systems Planning studies with the DB/DC Data Dictionary* 21, 1, 54 (1982).
- Sales, R., *COBOL/2: The next generation in applications programming* 27, 2, 158 (1988).
- Salisbury, C. A., see Holley, L. H., 18, 1, 47 (1979).
- Samukawa, H., *Programming style on the IBM 3090 Vector Facility considering both performance and flexibility* 27, 4, 453 (1988).
- Samukawa, H., see Sakaki, M., 27, 4, 528 (1988).
- Sandberg, G., *A primer on relational data base concepts* 20, 1, 23 (1981).

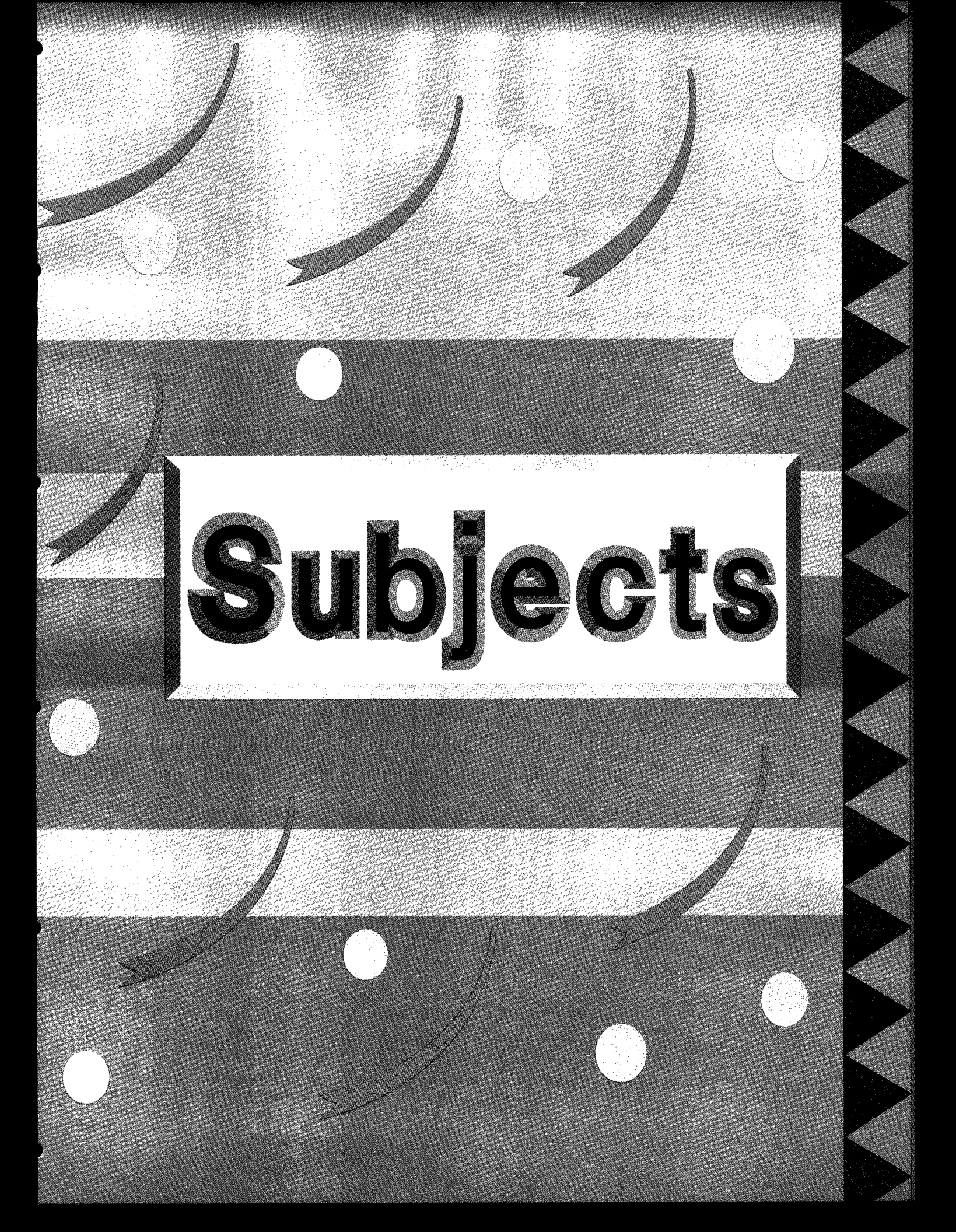
- Sanders, R. R., see Demers, R. A., **31**, 3, 459 (1992).
- Saracelli, K. D., and K. F. Bandat, *Process automation in software application development* **32**, 3, 376 (1993); G321-5517.
- Sarma, K. S., *An input-output econometric model* **16**, 4, 398 (1977).
- Sauer, C. H., see Loucks, L. K., **26**, 4, 326 (1987).
- Saul, D. N., see Holley, L. H., **18**, 1, 47 (1979).
- Savir, D., and G. J. Laurer, *The characteristics and decodability of the Universal Product Code symbol* **14**, 1, 16 (1975).
- Savir, D., see Metz, W. C., Jr., **14**, 1, 46 (1975).
- Scalzi, C. A., A. G. Ganek, and R. J. Schmalz, *Enterprise Systems Architecture/370: An architecture for multiple virtual space access and authorization* **28**, 1, 15 (1989).
- Scarborough, L. J., see Sahulka, R. J., **30**, 3, 296 (1991).
- Scarborough, R. G., see Toomey, L. J., **27**, 4, 416 (1988).
- Scarborough, R. G., see Sahulka, R. J., **30**, 3, 296 (1991).
- Schafer, D. J., see Mudie, M. W., **24**, 3/4, 307 (1985).
- Schardt, R. M., *An MVS tuning approach* **19**, 1, 102 (1980).
- Scharfenberg, K. F., P. H. Smith, Jr., and R. D. Villani, *A concordance generator* **3**, 1, 104 (1964).
- Schatzoff, M., see Margolin, B. H., **10**, 4, 283 (1971).
- Schatzoff, M., see Ravin, J., **12**, 3, 238 (1973).
- Scherr, A. L., *Functional structure of IBM virtual storage operating systems, Part II: OS/VS2-2 concepts and philosophies* **12**, 4, 382 (1973).
- Scherr, A. L., *Distributed data processing* **17**, 4, 324 (1978).
- Scherr, A. L., *A perspective on communications and computing* **22**, 1/2, 5 (1983).
- Scherr, A. L., *Structures for networks of systems* **26**, 1, 4 (1987).
- Scherr, A. L., *SAA distributed processing* **27**, 3, 370 (1988).
- Scherr, A. L., *A new approach to business processes* **32**, 1, 80 (1993); G321-5504.
- Schick, T., and R. F. Brockish, *The Document Interchange Architecture: A member of a family of architectures in the SNA environment* **21**, 2, 220 (1982).
- Schiller, D. C., *System capacity and performance evaluation* **19**, 1, 46 (1980).
- Schkolnick, M., see Blasgen, M. W., **20**, 1, 41 (1981).
- Schlatter, M., R. Furegati, F. Jeger, H. Schneider, and H. Strecken, *The Business Object Management System* **33**, 2, 239 (1994); G321-5541.
- Schlegel, W., see Elliott, P. J., **31**, 4, 620 (1992).
- Schleicher, D. L., and R. L. Taylor, *System overview of the Application System/400* **28**, 3, 360 (1989).
- Schmalz, R. J., see Scalzi, C. A., **28**, 1, 15 (1989).
- Schmidt, S., see McComb, J., **27**, 4, 404 (1988).
- Schmidt, S., see Agarwal, R. C., **28**, 2, 345 (1989).
- Schmitt, E. J., see Harrison, E. S., **26**, 3, 293 (1987).
- Schneider, H., see Schlatter, M., **33**, 2, 239 (1994).
- Schneider, T. H., see Herscovitch, H., **4**, 3, 174 (1965).
- Schoeffel, S. U., see Hebeker, F. K., **31**, 4, 788 (1992).
- Schreiber, D. E., see Fromm, J. E., **11**, 1, 41 (1972).
- Schultz, G. D., see Sundstrom, R. J., **26**, 1, 13 (1987).
- Schulz, H., see Hanssmann, F., **10**, 4, 305 (1971).
- Schütt, T. E., J. B. Staton III, and W. F. Racke, *Message-handling systems based on the CCITT X.400 recommendations* **26**, 3, 235 (1987).
- Schwartz, M. M., see Singleton, J. P., **33**, 2, 300 (1994).
- Schwartzburd, V., see Aharon, A., **30**, 4, 527 (1991).
- Schwarz, J., see Slonim, J., **33**, 3, 382 (1994).
- Scopinich, C. J., see Housel, B. C., **22**, 4, 319 (1983).
- Seaman, P. H., R. A. Lind, and T. L. Wilson, *On teleprocessing system design, Part IV: An analysis of auxiliary-storage activity* **5**, 3, 158 (1966).
- Seaman, P. H., *On teleprocessing system design, Part VI: The role of digital simulation* **5**, 3, 175 (1966).
- Seaman, P. H., and R. C. Soucy, *Simulating operating systems* **8**, 4, 264 (1969).
- Seaman, P. H., *Modeling considerations for predicting performance of CICS/VS systems* **19**, 1, 68 (1980).
- Seaman, P. H., see Acker, R. D., **21**, 4, 471 (1982).
- Seawright, L. H., see Meyer, R. A., **9**, 3, 199 (1970).
- Seawright, L. H., and R. A. MacKinnon, *VM/370—a study of multiplicity and usefulness* **18**, 1, 4 (1979).
- Seddon, C. R., see Davis, A. G., **33**, 4, 692 (1994).
- Selby, D., see Alfonseca, M., **30**, 4, 490 (1991).
- Selinger, P. G., see Blasgen, M. W., **20**, 1, 41 (1981).
- Selinger, P. G., *Database technology* **26**, 1, 96 (1987).
- Senko, M. E., E. B. Altman, M. M. Astrahan, and P. L. Fehder, *Data structures and accessing in data-base systems, Part I: Evolution of information systems* **12**, 1, 30 (1973).
- Senko, M. E., E. B. Altman, M. M. Astrahan, and P. L. Fehder, *Data structures and accessing in data-base systems, Part II: Information organization* **12**, 1, 45 (1973).
- Senko, M. E., E. B. Altman, M. M. Astrahan, and P. L. Fehder, *Data structures and accessing in data-base systems, Part III: Data representations and the data independent accessing model* **12**, 1, 64 (1973).
- Senko, M. E., *Data structures and data accessing in data base systems past, present, future* **16**, 3, 208 (1977).
- Seward, F. K., *An application-oriented multiprocessing system, Part VI: Programs for the intended application* **6**, 2, 124 (1967).
- Sguazzero, P., see Kamel, A., **27**, 4, 510 (1988).
- Shah, M. J., *Automatic programming for energy management using sensor based computers* **18**, 3, 457 (1979).
- Shannon, A. W., see Toomey, L. J., **27**, 4, 416 (1988).
- Shapiro, L. N., see Kan, S. H., **33**, 1, 4 (1994).
- Shapiro, S., *A technique to control waiting time in a queue* **4**, 1, 53 (1965).
- Shapiro, S., *Fabrication and assembly operations, Part VII: Adaptive control in production planning* **4**, 3, 250 (1965).
- Shaw, J. F., see Toomey, L. J., **27**, 4, 416 (1988).
- Shedler, G. S., and M. M. Lehman, *Evaluation of redundancy in a parallel algorithm* **6**, 3, 142 (1967).
- Shedler, G. S., and S. C. Yang, *Simulation of a model of paging system performance* **10**, 2, 113 (1971).
- Shedletsky, J. J., and J. J. Rofrano, *Application reference designs for distributed systems* **32**, 4, 625 (1993); G321-5527.
- Shen, H. C., see Kamel, M. S., **32**, 2, 307 (1993).

- Shepherd, B. J., *Experimental page makeup of text with graphics on a raster printer* 19, 3, 345 (1980).
- Shibamiya, A., see Cheng, J. M., 23, 2, 189 (1984).
- Shiobara, M. O., see Sy, K. K., 26, 2, 157 (1987).
- Shipp, K. O., see Dunfee, W. P., 27, 3, 325 (1988).
- Showalter, J. M., see Maslak, B. A., 30, 1, 72 (1991).
- Showalter, J. M., see Barnes, C. C., 30, 1, 107 (1991).
- Shu, N. C., see Lum, V. Y., 21, 3, 327 (1982).
- Shu, N. C., *Visual programming: Perspectives and approaches* 28, 4, 525 (1989).
- Shukuya, S., see Sy, K. K., 26, 2, 157 (1987).
- Shultz, S. S., see Yakhnis, V. R., 33, 1, 158 (1994).
- Silberberg, M. Y., see Brennan, R. D., 6, 4, 242 (1967).
- Simmons, J., see Burridge, J. M., 28, 4, 548 (1989).
- Simons, R. M., see Neal, A. S., 23, 1, 82 (1984).
- Simpson, R. O., and G. H. Phillips, *Network job entry facility for JES2* 17, 3, 221 (1978).
- Simpson, R. O., and P. D. Hester, *The IBM RT PC ROMP processor and memory management unit architecture* 26, 4, 346 (1987).
- Singh, Y., G. M. King, and J. W. Anderson, *IBM 3090 performance: A balanced system approach* 25, 1, 20 (1986).
- Singleton, J. P., and M. M. Schwartz, *Data access within the Information Warehouse framework* 33, 2, 300 (1994); G321-5544.
- Siwiec, J. E., *A high-performance DB/DC system* 16, 2, 169 (1977).
- Skatrud, R. O., see Hippert, R. O., Jr., 14, 1, 81 (1975).
- Skinner, C. E., and J. R. Asher, *Effects of storage contention on system performance* 8, 4, 319 (1969).
- Skwish, W. J., see Nguyen, H. C., 19, 1, 81 (1980).
- Slate, L., and K. Spielberg, *The Extended Control Language of MPSX/370 and possible applications* 17, 1, 64 (1978).
- Slonim, J., M. A. Bauer, P.-Å. Larson, J. Schwarz, C. Butler, E. B. Buss, and D. Sabbah, *The Centre for Advanced Studies: A model for applied research and development* 33, 3, 382 (1994); G321-5547.
- Slonim, J., see Bauer, M. A., 33, 3, 399 (1994).
- Slutz, D. R., see Mattson, R. L., 9, 2, 78 (1970).
- Slutz, D. R., see Blasgen, M. W., 20, 1, 41 (1981).
- Slutz, D. R., see Chamberlin, D. D., 21, 3, 250 (1982).
- Smedley, B. S., *The development of software systems to aid in physical planning* 17, 4, 359 (1978).
- Smith, C. P., see Christensen, K., 20, 4, 372 (1981).
- Smith, E. C., Jr., *Simulation in systems engineering* 1, September, 33 (1962).
- Smith, E. C., Jr., *A directly coupled multiprocessing system* 2, September–December, 218 (1963).
- Smith, J. D., see Bender, G., 6, 1, 2 (1967).
- Smith, P. H., Jr., see Scharfenberg, K. F., 3, 1, 104 (1964).
- Smith, R. A., see Rettus, R. C., 11, 1, 74 (1972).
- Smith, R. M., Sr., see Yeh, P. C., 30, 2, 192 (1991).
- Smith-Kerker, P. L., see Waters, F. C. H., 26, 4, 383 (1987).
- So, K., and V. Zecca, *Program locality of vectorized applications running on the IBM 3090 with Vector Facility* 27, 4, 436 (1988).
- Somerville, P. J., *Use of images in commercial and office systems* 23, 3, 281 (1984).
- Sordi, J. J., *The Query Management Facility* 23, 2, 126 (1984).
- Sorenson, K., see Bustamente, G. G., 33, 2, 228 (1994).
- Soucy, R. C., see Seaman, P. H., 8, 4, 264 (1969).
- Soucy, R. C., see Bailey, R. M., 22, 4, 404 (1983).
- Sowa, J. F., and J. A. Zachman, *Extending and formalizing the framework for information systems architecture* 31, 3, 590 (1992); G321-5488.
- Spencer, L. L., see Raimondi, D. L., 15, 1, 81 (1976).
- Spickhoff, F. J., see Artim, J. M., 29, 2, 236 (1990).
- Spielberg, K., *Computation of ex with the use of large tables* 5, 2, 102 (1966).
- Spielberg, K., see Slate, L., 17, 1, 64 (1978).
- Spiller, H., see Ryan, R. R., 24, 1, 37 (1985).
- Spillman, T. C., see Kozuh, F. T., 23, 3, 245 (1984).
- Spivak, G. A., see Tetzlaff, W. H., 26, 2, 215 (1987).
- Sprowls, R. C., see Gongla, P., 28, 4, 628 (1989).
- Stacy, E. W., L. E. Hunsinger, and J. F. Price, *Determining economic sampling plans* 8, 3, 220 (1969).
- Stanley, M., see Buss, E., 33, 3, 477 (1994).
- Stanley, W. I., and H. F. Hertel, *Statistics gathering and simulation for the Apollo real-time operating system* 7, 2, 85 (1968).
- Stanley, W. I., *Measurement of system operational statistics* 8, 4, 299 (1969).
- Starbird, R. P., see Burns, N. A., 25, 2, 236 (1986).
- Staton, J. B., III, see Sundstrom, R. J., 26, 1, 13 (1987).
- Staton, J. B., III, see Schütt, T. E., 26, 3, 235 (1987).
- Stay, J. F., *HIPO and integrated program design* 15, 2, 143 (1976).
- Stecher, P., *Building business and application systems with the Retail Application Architecture* 32, 2, 278 (1993); G321-5514.
- Steen, R. P., see Kingman, L. C., III, 29, 3, 304 (1990).
- Stern, R., see de Lima, A. H. V., 28, 4, 580 (1989).
- Sternad, Nicholas, *Programming considerations for the 7750* 2, March, 57 (1963).
- Stevens, J. V., see Abraham, D. G., 30, 2, 206 (1991).
- Stevens, W. P., G. J. Myers, and L. L. Constantine, *Structured design* 13, 2, 115 (1974).
- Stevens, W. P., *How data flow can improve application development productivity* 21, 2, 162 (1982).
- Stevens, W. P., see Buchwald, L. A., 27, 3, 315 (1988).
- Stevens, W. Y., *The structure of SYSTEM/360, Part II: System implementations* 3, 2/3, 136 (1964).
- Stevenson, D. A., see McManigal, D. F., 19, 3, 331 (1980).
- Stevenson, J. G., *Management of multivendor networks* 31, 2, 189 (1992); G321-5469.
- Stewart, H. M., *Performance analysis of complex communications systems* 18, 3, 356 (1979).
- Stierhoff, G. C., see Davis, A. G., 29, 4, 568 (1990).
- Stone, R. L., see Gladney, H. M., 14, 4, 314 (1975).
- Stone, R. L., T. S. Nettleship, and J. Curtiss, *VM/ESA CMS Shared File System* 30, 1, 52 (1991).
- Streckeisen, H., see Schlatter, M., 33, 2, 239 (1994).
- Streeter, D. N., *Cost-benefit evaluation of scientific computing services* 11, 3, 219 (1972).
- Streeter, D. N., *Centralization or dispersion of computing facilities* 12, 3, 283 (1973).

- Streeter, D. N., *Productivity of computer-dependent workers* 14, 3, 292 (1975).
- Strickland, J. P., P. P. Uhrowicz, and V. L. Watts, *IMS/VS: An evolving system* 21, 4, 490 (1982).
- Strole, N. C., see Dixon, R. C., 22, 1/2, 47 (1983).
- Strom, R. E., see Parr, F. N., 22, 1/2, 111 (1983).
- Strong, H. R., see Blasgen, M. W., 20, 1, 41 (1981).
- Studinski, D. P., see Mays, R. G., 29, 1, 4 (1990).
- Succi, S., see Papetti, F., 31, 4, 774 (1992).
- Suda, R., *An application-oriented multiprocessing system, Part V: The diagnostic monitor* 6, 2, 116 (1967).
- Suez, J., see Branin, F. H., Jr., 4, 1, 2 (1965).
- Sulack, R. A., R. J. Lindner, and D. N. Dietz, *A new development rhythm for AS/400 software* 28, 3, 386 (1989).
- Sullivan, T. P., *Communications Network Management enhancements for SNA networks: An overview* 22, 1/2, 129 (1983).
- Sultan, R. A., P. Kermani, G. A. Grover, T. P. Barzilai, and A. E. Baratz, *Implementing System/36 Advanced Peer-to-Peer Networking* 26, 4, 429 (1987).
- Summers, R. C., see Wood, C., 19, 2, 229 (1980).
- Summers, R. C., *An overview of computer security* 23, 4, 309 (1984).
- Summers, R. C., *Local-area distributed systems* 28, 2, 227 (1989).
- Sundstrom, R. J., J. B. Staton III, G. D. Schultz, M. L. Hess, G. A. Deaton, Jr., L. J. Cole, and R. M. Amy, *SNA: Current requirements and direction* 26, 1, 13 (1987).
- Sussenguth, E. H., see Falkoff, A. D., 3, 2/3, 198 (1964).
- Sweeney, D. W., *An analysis of floating-point addition* 4, 1, 31 (1965).
- Sy, K. K., M. O. Shiobara, M. Yamaguchi, Y. Kobayashi, S. Shukuya, and T. Tomatsu, *OSI-SNA interconnections* 26, 2, 157 (1987).
- Sykes, S. C. G., *The Realtime Interface Co-Processor Multiport/2 adapter* 27, 2, 198 (1988).
- Symonds, A. J., *Interactive Graphics in Data Processing: Auxiliary-storage associative data structure for PL/I* 7, 3/4, 229 (1968).
- Symonds, A. J., *Introduction to IBM's knowledge-systems products* 25, 2, 134 (1986).
- Szabat, M. M., and G. E. Meyer, *IBM network management strategy* 31, 2, 154 (1992); G321-5467.
- Szczygielski, T. J., see Baily, J. H., 13, 3, 253 (1974).
- Szczygielski, T. J., see Maslak, B. A., 30, 1, 72 (1991).
- Tagg, B. S., *Implementing tool support for box structures* 29, 1, 79 (1990).
- Tai, K.-C., M. A. Vouk, A. M. Paradkar, and P. Lu, *Evaluation of a predicate-based software testing strategy* 33, 3, 445 (1994); G321-5550.
- Talmdage, R. B., *Design of an integrated programming and operating system, Part II: The assembly program and its language* 2, June, 162 (1963).
- Tang, D. T., and R. T. Chien, *Coding for error control* 8, 1, 48 (1969).
- Tang, H., see Harding, W. B., 29, 3, 384 (1990).
- Tang, W. G., see Mohan, C., 33, 2, 349 (1994).
- Tanga, R., see Anbil, R., 31, 1, 71 (1992).
- Tarver, E. D., see Bhandari, I., 33, 1, 182 (1994).
- Tavera, M. L., see Alfonseca, M., 16, 1, 18 (1977).
- Tavera, M. L., M. Alfonseca, and J. Rojas, *An APL system for the IBM Personal Computer* 24, 1, 61 (1985).
- Taylor, D. J., see Bauer, M. A., 33, 3, 399 (1994).
- Taylor, R. L., see Schleicher, D. L., 28, 3, 360 (1989).
- Temoshenko, L., *Managing session performance using the NetView Performance Monitor* 31, 2, 286 (1992); G321-5474.
- Ten Dyke, R. P., and J. C. Kunz, *Object-oriented programming* 28, 3, 465 (1989).
- Teng, J. Z., and R. A. Gumaer, *Managing IBM Database 2 buffers to maximize performance* 23, 2, 211 (1984).
- Tennison, R. D., see Belady, L. A., 10, 2, 143 (1971).
- Teorey, T. J., see Bauer, M. A., 33, 3, 399 (1994).
- Teorey, T. J., see Bauer, M. A., 33, 3, 426 (1994).
- Tetzlaff, W. H., *State sampling of interactive VM/370 users* 18, 1, 164 (1979).
- Tetzlaff, W. H., see Bozman, G., 23, 1, 44 (1984).
- Tetzlaff, W. H., and W. M. Bucu, *VM/370, Attached Processor, and multiprocessor performance study* 23, 4, 375 (1984).
- Tetzlaff, W. H., T. Beretvas, W. M. Bucu, J. Greenberg, D. R. Patterson, and G. A. Spivak, *A page-swapping prototype for VM/HPO* 26, 2, 215 (1987).
- Thadhani, A. J., *Interactive user productivity* 20, 4, 407 (1981).
- Thadhani, A. J., *Factors affecting programmer productivity during application development* 23, 1, 19 (1984).
- Thomas, J. C., and J. M. Carroll, *Human factors in communication* 20, 2, 237 (1981).
- Thomas, J. C., see Branscomb, L. M., 23, 3, 224 (1984).
- Thomason, L. C., see Albrecht, H. R., 18, 4, 526 (1979).
- Thombs, H. W., see Gagliano, F. W., 7, 3/4, 281 (1968).
- Thompson, C. H., see Callaway, P. H., 11, 3, 200 (1972).
- Thompson, S., *VGA—Design choices for a new video subsystem* 27, 2, 185 (1988).
- Thomson, N. D., *APL2 as a specification language for statistics* 30, 4, 539 (1991).
- Thorn, C. A., see Brown, D. T., 11, 3, 186 (1972).
- Tilley, S. R., see Buss, E., 33, 3, 477 (1994).
- Tillman, C. C., see Parmelee, R. P., 11, 2, 99 (1972).
- Tirso, J. R., see Gale, J. L., 29, 1, 33 (1990).
- Tirso, J. R., and H. Gregorius, *Technical forum—Management of reuse at IBM* 32, 4, 612 (1993).
- Todd, S. J. P., *The Peterlee Relational Test Vehicle—a system overview* 15, 4, 285 (1976).
- Todd, S. J. P., see Chamberlin, D. D., 21, 3, 250 (1982).
- Todd, S. J. P., see Burrige, J. M., 28, 4, 548 (1989).
- Todd, S. J. P., see Latham, W. H., 28, 4, 682 (1989).
- Tomatsu, T., see Sy, K. K., 26, 2, 157 (1987).
- Tomlin, J. A., see Forrest, J. J. H., 31, 1, 11 (1992).
- Tomlin, J. A., see Forrest, J. J. H., 31, 1, 26 (1992).
- Tondo, C. L., see Korn, P. A., 24, 1, 26 (1985).
- Toomey, L. J., E. C. Plachy, R. G. Scarborough, R. J. Sahulka, J. F. Shaw, and A. W. Shannon, *IBM Parallel FORTRAN* 27, 4, 416 (1988).
- Traiger, I. L., see Mattson, R. L., 9, 2, 78 (1970).
- Traiger, I. L., see Blasgen, M. W., 20, 1, 41 (1981).
- Trammell, C. J., see Hausler, P. A., 33, 1, 89 (1994).

- Traub, W. G., see Engel, G. H., 18, 3, 402 (1979).
- Trimble, J., see White, B., 3, 1, 79 (1964).
- Trimble, R., *Storage management in IBM APL systems* 30, 4, 456 (1991).
- Troan, E. W., see O'Hare, A. B., 33, 1, 110 (1994).
- Troster, J., see Buss, E., 33, 3, 477 (1994).
- Tuchman, W. L., see Ehksam, W. F., 17, 2, 106 (1978).
- Tucker, S. G., *Microprogram control for SYSTEM/360* 6, 4, 222 (1967).
- Tucker, S. G., *The IBM 3090 system: An overview* 25, 1, 4 (1986).
- Tuckerman, B., see Konheim, A. G., 19, 2, 253 (1980).
- Tunis, C. J., see Griffin, J. S., Jr., 2, September–December, 248 (1963).
- Tunkel, J. A., see Cook, R. L., 27, 2, 134 (1988).
- Turnburke, V. P., Jr., *Sequential data processing design* 2, March, 37 (1963).
- Uhlir, S., *Enabling the user interface* 27, 3, 306 (1988).
- Uhrowczik, P. P., *Data Dictionary/Directories* 12, 4, 332 (1973).
- Uhrowczik, P. P., see Strickland, J. P., 21, 4, 490 (1982).
- Van Leer, P., *Top-down development using a program design language* 15, 2, 155 (1976).
- Van Slyke, D., see Mishelevich, D. J., 19, 4, 478 (1980).
- Van Woerkom, H. M., see Milliken, K. R., 25, 2, 159 (1986).
- Veber, R. A. K., see Wade, R. D., 8, 1, 28 (1969).
- Velasco, C. R., *A general purpose digital simulator and examples of its application, Part II: Simulation of a telephone intercept system* 3, 1, 35 (1964).
- Venkatraman, N., see Henderson, J. C., 32, 1, 4 (1993).
- Victor, B., see Boynton, A. C., 32, 1, 40 (1993).
- Villani, R. D., see Scharfenberg, K. F., 3, 1, 104 (1964).
- Vista, D., see Consens, M. P., 33, 3, 458 (1994).
- Voelker, J. A., and G. B. Ratica, *The genesis of a knowledge-based expert system* 25, 2, 181 (1986).
- Vogelsberg, R. E., see Jephson, J. S., 8, 3, 178 (1969).
- Vortman, P., see Pinter, R. Y., 30, 3, 312 (1991).
- Voss, F. W., *APPC/MVS distributed application support* 31, 2, 381 (1992); G321-5479.
- Vouk, M. A., see Tai, K.-C., 33, 3, 445 (1994).
- Wade, B. W., see Blasgen, M. W., 20, 1, 41 (1981).
- Wade, B. W., see Chamberlin, D. D., 21, 3, 250 (1982).
- Wade, R. D., G. P. Cawsey, and R. A. K. Veber, *A teleprocessing approach using standard equipment* 8, 1, 28 (1969).
- Wagner, R. E., *Indexing design considerations* 12, 4, 351 (1973).
- Wahi, P. N., *A general management business simulation in APL* 11, 2, 169 (1972).
- Waite, N. B., see Milliken, K. R., 25, 2, 159 (1986).
- Waldbaum, G., see Friedman, H. P., 14, 4, 340 (1975).
- Waldbaum, G., see Konheim, A. G., 19, 2, 253 (1980).
- Waldbaum, G., see Chess, D. M., 20, 4, 424 (1981).
- Waldbaum, G., see Koved, L., 25, 1, 105 (1986).
- Walicki, J. A., see Appel, A., 30, 3, 393 (1991).
- Walker, M. L., see Barnes, C. C., 30, 1, 107 (1991).
- Wall, W. A., see Duke, K. A., 24, 1, 14 (1985).
- Walrad, C., and E. Moss, *Measurement: The key to application development quality* 32, 3, 445 (1993); G321-5520.
- Walsh, H. F., see Gibson, D. H., 25, 1, 36 (1986).
- Walston, C. E., and C. P. Felix, *A method of programming measurement and estimation* 16, 1, 54 (1977).
- Walter, A. G. N., see Burrige, J. M., 28, 4, 548 (1989).
- Wang, H.-H., see Gazdag, J., 28, 4, 646 (1989).
- Wang, Y., see Mohan, C., 33, 2, 349 (1994).
- Wasmund, M., *Implementing Critical Success Factors in software reuse* 32, 4, 595 (1993); G321-5526.
- Waters, F. C. H., *Design of the IBM 8100 Data Base and Transaction Management System—DTMS* 18, 4, 565 (1979).
- Waters, F. C. H., R. G. Bias, and P. L. Smith-Kerker, *AIX usability enhancements and human factors* 26, 4, 383 (1987).
- Watkins, A. J., *Technical note—On reliability modeling and software quality* 33, 1, 220 (1994); G321-5539.
- Watson, H. K., see Anthony, A. L., 11, 4, 316 (1972).
- Watson, S. L., *OS/2 Query Manager overview and prompted interface* 27, 2, 119 (1988).
- Watts, V. L., see Strickland, J. P., 21, 4, 490 (1982).
- Weber, J. C., see Hagamen, W. D., 11, 4, 278 (1972).
- Weber, J. C., see Hagamen, W. D., 14, 2, 102 (1975).
- Weill, P., see Broadbent, M., 32, 1, 162 (1993).
- Weingarten, R. A., *An integrated approach to centralized communications network management* 18, 4, 484 (1979).
- Weingarten, R. A., see Benjamin, J. H., 22, 4, 344 (1983).
- Weingarten, R. A., and E. E. Iacobucci, *Logical problem determination for SNA networks* 22, 4, 387 (1983).
- Weingarten, R. A., see Jaffe, J. M., 22, 4, 417 (1983).
- Weis, A. H., see Prairie, P. L., 27, 4, 393 (1988).
- Weiss, Z., see Pinter, R. Y., 30, 3, 312 (1991).
- Welch, P. D., *On the reliability of polymorphic systems* 4, 1, 43 (1965).
- Weller, D. L., E. D. Carlson, G. M. Giddings, F. P. Palermo, R. Williams, and S. N. Zilles, *Software architecture for graphical interaction* 19, 3, 314 (1980).
- Wester, B. A., see Perry, B. T., 29, 3, 467 (1990).
- Wheatley, M. T., *Extending the domain of APL* 30, 4, 446 (1991).
- Wheeler, E. F., and A. G. Ganek, *Introduction to Systems Application Architecture* 27, 3, 250 (1988).
- Wheeler, T. F., Jr., *OS/VS1 concepts and philosophies* 13, 3, 213 (1974).
- Wheeler, W. R., see Benjamin, J. H., 22, 4, 344 (1983).
- White, B., and J. Trimble, *Design of an integrated programming and operating system, Part VI: Implementation on the 7040/44 data processing system* 3, 1, 79 (1964).
- White, S. W., see Sahulka, R. J., 30, 3, 296 (1991).
- White, W. W., and A. M. Bomberault, *A network algorithm for empty freight car allocation* 8, 2, 147 (1969).
- Wilkins, J. D., see Le, A. V., 32, 3, 461 (1993).
- Wilks, R., see Alfonseca, M., 30, 4, 490 (1991).
- Willhoft, R. G., *Parallel expression in the APL2 language* 30, 4, 498 (1991).
- Williams, K. C., see Esau, L. R., 5, 3, 142 (1966).
- Williams, R., see Weller, D. L., 19, 3, 314 (1980).

- Williams, R. J., see Margopoulos, W. P., 5, 3, 134 (1966).
- Williams, R. L., see Cook, R. L., 27, 2, 134 (1988).
- Wilson, D. G., and B. D. Rudin, *Introduction to the IBM Optimization Subroutine Library* 31, 1, 4 (1992); G321-5456.
- Wilson, T. L., see Seaman, P. H., 5, 3, 158 (1966).
- Wilson, T. L., see Clark, R. S., 25, 1, 63 (1986).
- Wilson, W. G., *Prolog for applications programming* 25, 2, 190 (1986).
- Wimbrow, J. H., *A large-scale interactive administrative system* 10, 4, 260 (1971).
- Wingert, W. B., see Billings, C., 33, 1, 46 (1994).
- Winters, G. A., see Bauer, M. A., 33, 3, 426 (1994).
- Witt, B. I., *Dynamic storage allocation for a real-time system* 2, September-December, 230 (1963).
- Witt, B. I., *The functional structure of OS/360, Part II: Job and task management* 5, 1, 12 (1966).
- Wladawsky-Berger, I., see Goldstein, B. C., 23, 3, 236 (1984).
- Wolfe, R. F., see Cordell, R. Q., II, 26, 4, 361 (1987).
- Wolford, D. E., *Application enabling in SAA* 27, 3, 301 (1988).
- Wong, A. K. C., see Kamel, M. S., 32, 2, 307 (1993).
- Wong, D. J., see Chang, W., 4, 2, 162 (1965).
- Wong, K., see Buss, E., 33, 3, 477 (1994).
- Wood, C., E. B. Fernandez, and R. C. Summers, *Data base security: requirements, policies, and models* 19, 2, 229 (1980).
- Wood, C. E., see Green, P. E., Jr., 26, 4, 414 (1987).
- Woodrum, L. J., *Internal sorting with minimal comparing* 8, 3, 189 (1969).
- Woodrum, L. J., *A model of floating buffering* 9, 2, 118 (1970).
- Woodwark, J. R., see BurrIDGE, J. M., 28, 4, 548 (1989).
- Worley, E. L., see Gladney, H. M., 14, 3, 212 (1975).
- Worthington, P. S., see Cheng, J. M., 23, 2, 189 (1984).
- Wothke, K., *Morphologically based automatic phonetic transcription* 32, 3, 486 (1993); G321-5522.
- Yagil, S., *Generation of input data for simulations* 2, September-December, 288 (1963).
- Yakhnis, V. R., J. A. Farrell, and S. S. Shultz, *Deriving programs using generic algorithms* 33, 1, 158 (1994); G321-5537.
- Yamada, H., see Galli, E. J., 6, 3, 192 (1967).
- Yamaguchi, K., see Demers, R. A., 31, 3, 488 (1992).
- Yamaguchi, M., see Sy, K. K., 26, 2, 157 (1987).
- Yang, S. C., see Shedler, G. S., 10, 2, 113 (1971).
- Yang, Y., see Binding, C., 31, 4, 668 (1992).
- Yardeni, L. A., *Algorithms for traffic-signal control* 4, 2, 148 (1965).
- Yeh, P. C., and R. M. Smith, Sr., *ESA/390 Integrated Cryptographic Facility: An overview* 30, 2, 192 (1991).
- Yelavich, B. M., *Customer Information Control System—An evolving system facility* 24, 3/4, 264 (1985).
- Yglesias, K. P., *Technical forum—Information reuse parallels software reuse* 32, 4, 615 (1993).
- Yonezawa, M., see Bhandari, I., 33, 1, 182 (1994).
- Yost, R. A., see Blasgen, M. W., 20, 1, 41 (1981).
- Young, G. E., see George, F. D., 21, 2, 179 (1982).
- Yozzo, R. E., see Appel, A., 30, 3, 393 (1991).
- Yuval, A., *System contention analysis—An alternate approach to system tuning* 19, 2, 208 (1980).
- Zachman, J. A., *Business Systems Planning and Business Information Control Study: A comparison* 21, 1, 31 (1982).
- Zachman, J. A., *A framework for information systems architecture* 26, 3, 276 (1987).
- Zachman, J. A., see Sowa, J. F., 31, 3, 590 (1992).
- Zatti, S., see Janson, P., 31, 2, 313 (1992).
- Zatti, S., J. Ashfield, J. Baker, and E. Miller, *Naming and registration for IBM distributed systems* 31, 2, 353 (1992); G321-5478.
- Zecca, V., see So, K., 27, 4, 436 (1988).
- Zeidner, L., see Hazony, Y., 31, 1, 94 (1992).
- Ziegler, K., Jr., *A distributed information system study* 18, 3, 374 (1979).
- Zilles, S. N., see Weller, D. L., 19, 3, 314 (1980).
- Zimmerman, L. L., see Day, C. W., 7, 3/4, 373 (1968).
- Zimowski, M. R., see Hammond, K. R., 23, 2, 151 (1984).
- Zingaretti, D. P., see Boehm, G. E., 29, 1, 124 (1990).
- Zloof, M. M., *Query-by-Example: A data base language* 16, 4, 324 (1977).
- Zloof, M. M., *Office-by-Example: A business language that unifies data and word processing and electronic mail* 21, 3, 272 (1982).



Subjects