This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2005, and items from previous years that were commented upon or corrected in 2005. In case of magazines, departments and other items may be also covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author’s name. The primary entry includes the coauthors, names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author’s name, the publication abbreviation, month, and year, and inclusive pages. Subject cross-references are included to assist in finding items of interest. Note that the item title is found only under the primary title in the Author Index.

### Author Index

**A**
- Addison, D., see Beecroft, J., July-Aug. 2005 34-47
- Aingaran, K., see Kongeita, P., March-April 2005 21-29
- Anguita, M., and J.M. Martinez-Lechado. MP3 optimization exploiting processor architecture and using better algorithms, May-June 2005 81-92
- Arekapudi Srikanth, see Srikanth Arekapudi, Jan.-Feb. 2005 70-78
- Asano, T., see Maeda, S., Sept.-Oct. 2005 20-29
- Asano, T., see Takahashi, O., Sept.-Oct. 2005 10-18
- Awazu, K., see Maeda, S., Sept.-Oct. 2005 20-29

**B**
- Bhutia, R., see McNairy, C., March-April 2005 10-20
- Bingxin Shi, see Weidong Wu, July-Aug. 2005 56-64
- Bose Pradip, see Jayanth Srinivasan, May-June 2005 70-80
- Buyuktosunoglu, A., see Isci, C., Sept.-Oct. 2005 39-51

**C**
- Cantrell, C.D., see Akhbarizadeh, M.J., July-Aug. 2005 48-63
- Caprioli, P., see Chaudhry, S., May-June 2005 32-45
- Cazorla, F., see Cristal, A., May-June 2005 48-57
- Chang Yen-Jen, see Yen-Jen Chang, July-Aug. 2005 20-32
- Chatterjee, S., see Agerwal, T., May-June 2005 58-69
- Chuang, S.-T., see Srikanth Arekapudi, Jan.-Feb. 2005 70-78
- Chung, E.S., see Gold, B.T., Nov-Dec. 2005 51-59
- Clark, D.W., see Qiang Wu, Sept.-Oct. 2005 52-62
- Cook, R., see Takahashi, O., Sept.-Oct. 2005 10-18
- Cottier, S., see Takahashi, O., Sept.-Oct. 2005 10-18
- Cottier, S., see Asano, T., Sept.-Oct. 2005 30-38

**D**
- Delgado, O., see Takahashi, O., Sept.-Oct. 2005 10-18
- Dhong, S.H., see Takahashi, O., Sept.-Oct. 2005 10-18
- Dhong, S.H., see Asano, T., Sept.-Oct. 2005 30-38
- Diefendorff, K., see Dally, B., March-April 2005 8-9

**E**
- Emma, P.G. Inventions and the creative process, May-June 2005 93-95
- Emma, P.G. What is patentable?, July-Aug. 2005 7-9
Rajesh Kota, and R. Oehler. Horus: large-scale symmetric multiprocessing for Opteron systems; March-April 2005 30-40
Ramirez, A., see Falcon, A., Jan.-Feb. 2005 80-89
Ramirez, T., see Cristal, A., May-June 2005 48-57
Rarick, L., see Eberle, H., March-April 2005 52-59
Rivers, J.A., see Jayanth Srinivasan, May-June 2005 70-80
Roweth, D., see Becerro, J., July-Aug. 2005 34-47

Santana, O.J. see Cristal, A., May-June 2005 48-57
Shantz, S., see Eberle, H., March-April 2005 52-59
Shi Bingxin, see Weidong Wu, July-Aug. 2005 64-72
Shi Jian, see Weidong Wu, July-Aug. 2005 64-72
Shimada, T., see Maeda, S., Sept.-Oct. 2005 20-29
Silberman, J., see Takahashi, O., Sept.-Oct. 2005 10-18
Silberman, J., see Asano, T., Sept.-Oct. 2005 30-38
Skadron, K., see Zhijian Lu, Nov-Dec 2005 40-49
Smith, J.E., see Nesbit, K.J., Jan.-Feb. 2005 90-97
Smolens, J.C., see Gold, B.T., Nov-Dec 2005 51-59
Spracklen, L., see Eberle, H., March-April 2005 52-59
Srinivasan Jayanth, see Jayanth Srinivasan, May-June 2005 70-80
Stan, M., see Zhijian Lu, Nov-Dec 2005 40-49
Stark, J., see Falcon, A., Jan.-Feb. 2005 80-89
Stern, R.H. FTC cracks down on spyware and PC hijacking, but not true lies; Jan.-Feb. 2005 6-7, 100-1
Stern, R.H. The antitrust ghost in the standard-setting machine [IEEE standards and RAND licensing]; May-June 2005 7-9
Stern, R.H. Standardization skullduggery update: UMTS standard; July-Aug. 2005 73-76
Stern, R.H. Transnational electronic systems and patent infringement; Nov-Dec 2005 85-88
Stiliadis, D., see Sterbenz, J.P.G., Jan.-Feb. 2005 8-9
Suksoon Yong, see Takahashi, O., Sept.-Oct. 2005 10-18

Tago, H., see Maeda, S., Sept-Oct. 2005 20-29
Takahashi, O., see Asano, T., Sept-Oct. 2005 30-38
Talpes, E., see Marculescu, D., Sept-Oct. 2005 64-76
Tremblay, M., see Chaudhry, S., May-June 2005 32-45

Valero, M., see Falcon, A., Jan.-Feb. 2005 80-89
Valero, M., see Cristal, A., May-June 2005 48-57
Vetter, J.S., see Dunigan, T.H., Jr., Jan.-Feb. 2005 30-40
Vishnu, V., see Jiuxing Liu, Jan.-Feb. 2005 20-29

Weidong Wu, Jian Shi, Ling Zuo, and Bingxin Shi. Power-efficient TCAMs for bursty access patterns; July-Aug 2005 64-72
Wendel, D., see Takahashi, O., Sept-Oct. 2005 10-18
White, J.B., III, see Dunigan, T.H., Jr., Jan.-Feb. 2005 30-40
White, M., see Takahashi, O., Sept-Oct. 2005 10-18
White, M., see Asano, T., Sept-Oct. 2005 30-38
Worley, P.H., see Dunigan, T.H., Jr., Jan.-Feb. 2005 30-40
Wu Qiang, see Qiang Wu, Sept-Oct. 2005 52-62
Wu Weidong, see Weidong Wu, July-Aug. 2005 64-72

Xiaodong Zhang, see Zhichun Zhu, July-Aug. 2005 10-19

Yano, N., see Takahashi, O., Sept-Oct. 2005 10-18
Yip, S., see Chaudhry, S., May-June 2005 32-45
Yong Suksoon, see Takahashi, O., Sept-Oct. 2005 10-18
Yoshihara, H., see Asano, T., Sept-Oct. 2005 30-38

Zhang Xiaodong, see Zhichun Zhu, July-Aug. 2005 10-19


### Subject Index

**A**

**Associative memories**


efficient multimatch packet class. and lookup, TCAM. *Yu, F.*, *see* Mateosian, R., Jan.-Feb. 2005 50-59


**Audio**

Audio coding

MP3 optim. exploiting processor archit. and better algs.. *Anguita, M.*, *see* Mateosian, R., May-June 2005 81-92

Audio signal processing; *cf.* Audio coding

**B**

**Biocybernetics; *cf.* Brain models**

Book reviews


Database in Depth: Relational Theory for Practitioners (Date, C.J.; 2005).


Brain; *cf.* Brain models

**Business communication**


**Cache memories**


**Cell processors**

Chip-scale packaging

Hot Chips 16 Conference (special section). March-April 2005 8-9

Hot Chips 16 Conference (special section). Dally, B., +, March-April 2005 8-9

Chip multiprocessors

power efficient error tolerance in chip multiprocessors. Rashid, M.W., +, Nov.-Dec. 2005 60-70

Communication standards

standardization shillduggery update, UMTS std. Stern, R.H., July-Aug. 2005 73-76

Communication switching

configure, load-balanced switch, hardware. Srikanta Arakeri, P., +, Jan.-Feb. 2005 70-78

Communication system routing

bursty access patterns, power-efficient TCAMs. Weidong Wu, +, July-Aug. 2005 64-72
configure, load-balanced switch, hardware. Srikanta Arakeri, P., +, Jan.-Feb. 2005 70-78

Communication system traffic

bursty access patterns, power-efficient TCAMs. Weidong Wu, +, July-Aug. 2005 64-72
configure, load-balanced switch, hardware. Srikanta Arakeri, P., +, Jan.-Feb. 2005 70-78
real-time worm detect., hardware-accelerated syst.. Madhusudan, B., +, Jan.-Feb. 2005 60-69

Complexity theory

MP3 optim. exploiting processor archit. and better algms.. Anguita, M., +, May-June 2005 81-92

Computer architecture

energy awareness and uncertainty in design at microarchitecture level. Marcelo De., +, Sept.-Oct. 2005 64-76
general-purpose CPUs, accelerating next-gen. public-key cryptosystems. Eberle, H., +, March-April 2005 52-59
high-perform. throughput comput.. Chaudhry, S., +, May-June 2005 32-45
lifetime reliab., architectural soln.. Jayanth Srinivasan, +, May-June 2005 70-80
MP3 optim. exploiting processor archit. and better algms.. Anguita, M., +, May-June 2005 81-92
next decade, computer archit. challenges and opportunities. Agerwala, T., +, May-June 2005 58-69
Opteron systs., horus, large-scale symmetric multiprocessing. Rajesh Kota, +, March-April 2005 30-40
QSNET®, defining high-perform. net. design. Becroft, J., +, July-Aug. 2005 34-47
road ahead, microprocessor design issues, thoughts. Flynn, M.J., +, May-June 2005 16-31
Computer architecture; cf. Memory architecture; Parallel architectures; Reduced instruction set computing

Computer crime

spyware and PC hijacking, not true lies, FTC cracks down. Stern, R.H., Jan.-Feb. 2005 6-7, 100-1

Computer fault tolerance

embedded environments, thread-based virtual duplex systs.. Keller, J., +, March-April 2005 60-69

Computer graphics

GeForce 6800. Montrym, J., +, March-April 2005 41-51
Computer graphics; cf. Rendering (computer graphics)

Computer industry

commercial technol. markets, Explorers and expanders, both early and late. Greenstein, S., July-Aug. 2005 77-79
computer market, Not a mellifluous march to maturity. Greenstein, S., Jan.-Feb. 2005 104, 102-103

Computer instructions

general-purpose CPUs, accelerating next-gen. public-key cryptosystems. Eberle, H., +, March-April 2005 52-59

Computer interfaces

power conscious design of the synergistic processor element of a cell processor. Takahashi, O., +, Sept.-Oct. 2005 10-18

Computer network management

real-time worm detect., hardware-accelerated syst.. Madhusudan, B., +, Jan.-Feb. 2005 60-69

Computer network reliability

reliability banking improves thermal management. Zhijian Lu, +, Nov-Dec 2005 40-49
rela...
Computer software

Contracts
IEEE stds. and RAND licensing, std.-setting machine, antitrust ghost. Stern, R.H., May-June 2005 7-9

Cryptography; cf. Public key cryptography

Database management systems; cf. Relational databases
Database theory
book review; Database in Depth: Relational Theory for Practitioners (Date, C.J.; 2005). Matosian, R., July-Aug. 2005 80, 79

Data buses
high-speed opt. interconnect for scalable shared-memory multiprocessors, design. Avinash Karanth Kodi, +, Jan.-Feb. 2005 41-49

Data compression
MP3 optim. exploiting processor archit. and better algms.. Anguita, M., +, May-June 2005 81-92

Data handling; cf. Table lookup
Decoding
MP3 optim. exploiting processor archit. and better algms.. Anguita, M., +, May-June 2005 81-92

Design engineering

Design engineering; cf. Product development
Digital communication
Hot Chips 16 Conference (special section). March-April 2005 8-69
Hot Chips 16 Conference (special section). Dally, B., +, March-April 2005 8-9

Digital computers; cf. Microcomputers; Parallel machines
Digital integrated circuits; cf. Microprocessor chips
Digital storage; cf. Random-access storage
Digital systems; cf. Digital communication
Distributed processing; cf. Message passing; Parallel processing; Pipeline processing
Dynamic programming
long-term workload phases, duration predictions and applications to DVFS. Isci, C., +, Sept.-Oct. 2005 39-51

Economic forecasting

Electrical markets
wireless access and electrical markets: Becoming similar? Nov.-Dec. 2005 6-7

Electron device manufacture; cf. Integrated circuit manufacture; Semiconductor device manufacture
Electronic engineering; cf. Low-power electronics
Encoding; cf. Audio coding
Energy management systems; cf. Load management
Engineering
book review; They Made America - From the Steam Engine to the Search Engine: Two Centuries of Innovation (Evans, H.; 2004). Matosian, R., March-April 2005 7

Engineering; cf. Design engineering
Error analysis
power efficient error tolerance in chip multiprocessors. Rashid, M.W., +, Nov.-Dec. 2005 60-70

Error tolerance
power efficient error tolerance in chip multiprocessors. Rashid, M.W., +, Nov.-Dec. 2005 60-70

Fault diagnosis
embedded environments, thread-based virtual duplex systs.. Keller, J., +, March-April 2005 60-69

Field programmable gate arrays
real-time worm detect., hardware-accelerated syst.. Madhusudan, B., +, Jan.-Feb. 2005 60-69

Globalization

High level languages; cf. Object-oriented languages
High-speed techniques
Hot Interconnects 12 (special section). Jan.-Feb. 2005 8-97
Hot Interconnects 12 (special section intro.). Sterbenz, J.P.G., +, Jan.-Feb. 2005 8-9
IEEE standards

stds. and RAND licensing, std.-setting machine, antitrust ghost. Stern, R.H., May-June 2005 7-9

Image processing; cf. Image resolution

Image resolution
GeForce 6800. Montrym, J., +, March-April 2005 41-51

Industrial property; cf. Patents

Information networks; cf. Internet

Information technology

Information theory; cf. Decoding; Prediction theory

Innovation management

Integrate circuit design
lifetime relib., architectural soln., Jayanth Srinivasan, +, May-June 2005 70-80
road ahead, microprocessor design issues, thoughts. Flynn, M.J., +, May-June 2005 16-31

Integrate circuit manufacture
lifetime relib., architectural soln., Jayanth Srinivasan, +, May-June 2005 70-80
standardization skullduggery update, UMTS std.. Stern, R.H., July-Aug. 2005 73-76

Integrated memory circuits; cf. SRAM chips

Interactive systems
GeForce 6800. Montrym, J., +, March-April 2005 41-51

Interconnected systems
Hot Interconnects 12 (special section). Jan.-Feb. 2005 8-97
Hot Interconnects 12 (special section intro.). Sterbenz, J.P.G., +, Jan.-Feb. 2005 8-9

Interconnections; cf. Optical interconnections

Internet
commercial technol. markets, Explorers and expanders, both early and late. Greenstein, S., July-Aug. 2005 77-79
configure, load-balanced switch, hardware. Srihanth Areekapadi, +, Jan.-Feb. 2005 70-78
real-time worm detect., hardware-accelerated syst.. Madhuuddan, B., +, Jan.-Feb. 2005 60-69
spyware and PC hijacking, not true lies, FTC cracks down. Stern, R.H., Jan.-Feb. 2005 6-7, 100-1


Large-scale systems; cf. Interconnected systems

Layout
lifetime relib., architectural soln., Jayanth Srinivasan, +, May-June 2005 70-80

Legal factors
patentable. Emma, P.G., July-Aug. 2005 7-9
spyware and PC hijacking, not true lies, FTC cracks down. Stern, R.H., Jan.-Feb. 2005 6-7, 100-1
standardization skullduggery update, UMTS std.. Stern, R.H., July-Aug. 2005 73-76

Load (electric); cf. Load management

Load management
long-term workload phases, duration predictions and applications to DVFS. Isci, C., +, Sept.-Oct. 2005 39-51

Logic; cf. Logic design

Logic design
lifetime relib., architectural soln., Jayanth Srinivasan, +, May-June 2005 70-80
road ahead, microprocessor design issues, thoughts. Flynn, M.J., +, May-June 2005 16-31

Low-power design
cell processor low-power design methodology. Stasiak, D., +, Nov.-Dec. 2005 71-78

Low-power electronics

Management
communications consolidation after an era of no restraints. Greenstein, S., March-April 2005 72, 70-71

Management; cf. Contracts

Mathematical programming; cf. Dynamic programming

Meetings
Hot Chips 16 Conference (special section). March-April 2005 8-69
Hot Chips 16 Conference (special section). Dally, B., +, March-April 2005 8-9
Hot Interconnects 12 (special section). Jan.-Feb. 2005 8-97
Hot Interconnects 12 (special section intro.). Sterbenz, J.P.G., +, Jan.-Feb. 2005 8-9

Memory architecture
Hot Chips 16 Conference (special section). Daily, B., +, March-April 2005 8-9
Memory management
Message passing
Microcomputers
Microprocessor chips
Microprocessors
designing microprocessors with robust functionality and performance. P. Bose, Nov-Dec 2005 5
high-perform. throughput comput.. Chaudhry, S., +, May-June 2005 32-45
lifetime relia., architectural soln.. Japavith Srinivasan, +, May-June 2005 70-80
MP3 optm. exploiting processor archit. and better algms.. Anguita, M., +, May-June 2005 81-92
next decade, computer archit., challenges and opportunities. Agerwala, T., +, May-June 2005 58-69
road ahead, microprocessor design issues, thoughts. Flynn, M.J., +, May-June 2005 16-31
Microprogramming
Multiprocessing
embedded environments, thread-based virtual duplex systs.. Keller, J., +, March-April 2005 60-69
next decade, computer archit., challenges and opportunities. Agerwala, T., +, May-June 2005 58-69
Opteron systs., horus, large-scale symmetric multiprocessing. Rajesh Kota, +, March-April 2005 30-40
QSNET², defining high-perform. net. design. Becroft, J., +, July-Aug. 2005 34-47
Multiprocessor interconnection
Cray X1 distrib. shared-memory archit., perform. eval.. Dunigan, T.H., Jr., +, Jan.-Feb. 2005 30-40
high-speed opt. interconnect for scalable shared-memory multiprocessors, design. Aravinth Karanath Koda, +, Jan.-Feb. 2005 41-49
Opteron systs., horus, large-scale symmetric multiprocessing. Rajesh Kota, +, March-April 2005 30-40
power-efficient error tolerance in chip multiprocessors. Rashid, M.W., +, Nov-Dec 2005 60-70
QSNET², defining high-perform. net. design. Becroft, J., +, July-Aug. 2005 34-47
network routing
Hot Interconnects 12 (special section). Jan.-Feb. 2005 8-9
Hot Interconnects 12 (special section intro.). Sterbenz, J.P.G., +, Jan.-Feb. 2005 8-9
Network servers
TRUSS, reliable, scalable server architecture. Gold, B.T., +, Nov-Dec 2005 51-59
Network synthesis; cf. Integrated circuit design
Neurophysiology
Numerical analysis; cf. Error analysis
Object-oriented languages
Optical interconnections
high-speed opt. interconnect for scalable shared-memory multiprocessors, design. Aravinth Karanath Koda, +, Jan.-Feb. 2005 41-49
Optical resolving power; cf. Image resolution
Optical switches
confi-gure, load-balanced switch, hardware. Srikanth Arekapudi, +, Jan.-Feb. 2005 70-78
Optimization methods
bursty access patterns, power-efficient TCAMs. Weidong Wu, +, July-Aug. 2005 64-72
Packet switching
confi-gure, load-balanced switch, hardware. Srikanth Arekapudi, +, Jan.-Feb. 2005 70-78
efficient multirnatch packet class. and lookup, TCAM. Yu, F., +, Jan.-Feb. 2005 50-59
Parallel architectures
GeForce 6800. Montrym, J., +, March-April 2005 41-51
Parallel architectures
IEEE stds. and RAND licensing, std.-setting machine, Patents
Parallel processing
power conscious design of the synergistic processor element of a cell processor. Takahashi, O., +, Sept.-Oct. 2005 10-18
QSNETII, defining high-perform. net. design. Beecroft, J., +, July-Aug. 2005 34-47
Parallel processing: cf. Parallel architectures; Parallel machines
Patents
IEEE stds. and RAND licensing, std.-setting machine, antitrust ghost. Stern, R.H., May-June 2005 7-9
inventions and creative proc.. Emma, P.G., May-June 2005 96, 93-95
patentable. Emma, P.G., July-Aug. 2005 7-9
standardization shakedown update, UMTS std.. Stern, R.H., July-Aug. 2005 73-76
Performance evaluation
energy awareness and uncertainty in design at microarchi-
tecture level. Marculescu, D., +, Sept.-Oct. 2005 64-76
formal control techniques for power-performance manage-
reliable system design in the presence of transistor variability and degradation. Borkar, S., Nov.-Dec 2005 10-16
Personnel
computer market, Not a mellifluous march to maturity. Greenstein, S., Jan.-Feb. 2005 104, 102-103
Physiological models: cf. Brain models
Physiology: cf. Neurophysiology
Pipeline processing
montecito, dual-core, dual-thread Itanium processor. McNair, C., +, March-April 2005 10-20
Power consumption
energy awareness and uncertainty in design at microarchi-
tecture level. Marculescu, D., +, Sept.-Oct. 2005 64-76
formal control techniques for power-performance manage-
Power demand
bursty access patterns, power-efficient TCAMs. Weikong Wu, +, July-Aug. 2005 64-72
next decade, computer archit., challenges and opportunities. Agarwala, T., +, May-June 2005 58-69
Prediction theory
long-term workload phases, duration predictions and appli-
Product design
Product development
Professional aspects
book review; They Made America - From the Steam Engine to the Search Engine: Two Centuries of Innovation (Evans, H.; 2004). Mateosian, R., March-April 2005 7
Programmable logic arrays: cf. Field programmable gate arrays
Programming
book review; Software Endgames: Eliminating Defects, Controlling Change, and the Countdown to On-Time Deliver-
Programming; cf. Microprogramming
Program processors
power conscious design of the synergistic processor element of a cell processor. Takahashi, O., +, Sept.-Oct. 2005 10-18
Public key cryptography
generald-purpose CPUs, accelerating next-gener. public-key cryptosystems. Eberle, H., +, March-April 2005 52-59
Hot Chips 16 Conference (special section). March-April 2005 8-69
Hot Chips 16 Conference (special section). Dally, B., +, March-April 2005 8-9
Random-access storage
Random-access storage; cf. SRAM chips
Real-time systems
worm detect., hardware-accelerated syst.. Madhusudan, B., +, Jan.-Feb. 2005 60-69
Reduced instruction set computing
Relational databases
book review; Database in Depth: Relational Theory for Practitioners (Date, C.J.; 2005). Matenian, R., July-Aug. 2005 80, 79
Reliability
improved thermal management with reliability banking, Zhijian Lu, +, Nov.-Dec. 2005 40-49
lifetime reliab., architectural soln.. Jaganath Srinivasan, +, May-June 2005 70-80
recent advances and new avenues in hardware-level reliability support, Ravishankar, K.I., +, Nov.-Dec. 2005 18-29
Rendering (computer graphics)
GeForce 6800. Montrym, J., +, March-April 2005 41-51
Research and development
Research and development management; cf. Innovation management
Resource management
configure, load-balanced switch, hardware. Srikanth Arkepudi, +, Jan.-Feb. 2005 70-78
Risk analysis
foresight mgm., The anatomy of foresight traps. Greenstein, S., May-June 2005 10-12
Security of data; cf. Computer crime
Semantic Web
Semiconductor device manufacture
standardization skullduggery update, UMTS std.. Stern, R.H., July-Aug. 2005 73-76
Signal processing; cf. Data compression
Signal resolution; cf. Image resolution
Soft errors
an experimental study of soft errors in microprocessors; Saggese, G.P., +, Nov-Dec 2005 30-39
Software development management
Software engineering
Software engineering; cf. Software development management
Software management; cf. Software development management

Special issues and sections
Hot Chips 16 Conference (special section). March-April 2005 8-49
Hot Chips 16 Conference (special section). Dally, B., +, March-April 2005 8-9
Hot Interconnects 12 (special section). Jan.-Feb. 2005 8-97
Hot Interconnects 12 (special section intro.). Sterbenz, J.P.G., +, Jan.-Feb. 2005 8-9

SRAM chips

Standardization
IEEE stds. and RAND licensing, std.-setting machine, antitrust ghost. Stern, R.H., May-June 2005 7-9

Standards
lifetime reliab., architectural soln., Jayanth Srinivasan, +, May-June 2005 70-80

Standards; cf. IEEE standards
Switches; cf. Optical switches

System recovery
embedded environments, thread-based virtual duplex systs. Keller, J., +, March-April 2005 60-69

Systems software; cf. Program processors

Table lookup
bursty access patterns, power-efficient TCAMs. Weidong Wu, +, July-Aug. 2005 64-72

Technological forecasting

Technology forecasting
next decade, computer archit., challenges and opportunities. Agha, T., +, May-June 2005 58-69

Telecommunication; cf. Business communication; Digital communication; Telecommunication services
Telecommunication network management; cf. Computer network management
Telecommunication network reliability; cf. Computer network reliability
Telecommunication services

Thermal analysis
improved thermal management with reliability banking. Zhijian Lu, +, Nov-Dec 2005 40-49
reliability banking improves thermal management. Zhijian Lu, +, Nov-Dec 2005 40-49

Time division multiplexing; cf. Packet switching
Traffic control (communication)

Transistors
power conscious design of the synergistic processor element of a cell processor. Takahashi, O., +, Sept.-Oct. 2005 10-18
reliable system design in the presence of transistor variability and degradation. Borkar, S., Nov-Dec 2005 10-16

TRUSS

Unreliable systems
designing reliable systems from unreliable components: The challenges of transistor variability and degradation. Borkar, S., Nov-Dec 2005 10-16

Vector processing
Cray X1 distrib. shared-memory archit., perform. eval.. Dunigan, T.H., Jr., +, Jan.-Feb. 2005 30-40

Virtual computers
embedded environments, thread-based virtual duplex systs.. Keller, J., +, March-April 2005 60-69

Wireless
wireless access and electrical markets: Becoming similar? Nov-Dec. 2005 6-7

Virtual computers
embedded environments, thread-based virtual duplex systs.. Keller, J., +, March-April 2005 60-69