

# 1998 Index

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This index covers all technical items - papers, correspondence, reviews, etc. that appeared in this periodical during 1996-1998, and items from previous years that were commented upon or corrected in 1996-1998. In the 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 entry in the Author Index.

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**Land mobile radio spectrum management**

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Frank J. Sprague, career/contribs. *Brittain, J.E., PROC Jul 97 1183-1184*

**Land vehicles**

autonomous vehicles. *Meyrowitz, A.L., +, PROC Aug 96 1147-1164*

**Land vehicles; cf. Military land vehicles; Road vehicles****Large-scale integration**

multimedia proc. *Kuroda, I., +, PROC Jun 98 1203-1221*

**Large-scale integration; cf. Very-large-scale integration****Laser accessories; cf. Laser resonators****Laser applications**

LITE, NASA space lidar for cloud and aerosol. *Winker, D.M., +, PROC Feb 96 164-180*  
 satellite commun. network, vibr. effect and solns. *Arnon, S., +, PROC Oct 97 1646-1661*  
 WDM opt. fiber networks, opt. components, review. *Borella, M.S., +, PROC Aug 97 1274-1307*  
 wind vel. rem. sens., solid-state/CO<sub>2</sub> lidar systs. *Huffaker, R.M., +, PROC Feb 96 181-204*

**Laser applications; cf. Laser biomedical applications; Laser chemistry applications; Magneto-optic recording; Optical memories****Laser biomedical applications**

health care laser beam appls. *Deutsch, T.F., PROC Nov 97 1797-1816*

**Laser chemistry applications**

hybrid neural network/spectrosc. chem. anal. *Taiwei Lu, +, PROC Jun 96 895-905*

**Laser excitation; cf. Optical pumping****Laser measurement applications; cf. Laser radar****Laser noise**

WDM opt. fiber amp. transm. syst. capacity. *Yadlowsky, M.J., +, PROC Nov 97 1765-1779*

**Laser radar**

1D opt. phased array technol., sens. appls. *McManamon, P.F., +, PROC Feb 96 268-298*  
 coherent laser radar in Europe, ground-based and airborne systs. *Vaughan, J.M., +, PROC Feb 96 205-226*  
 CO<sub>2</sub> range-Doppler imaging laser radar component technol. *Melngailis, I., +, PROC Feb 96 227-267*  
 imaging laser radar transmitters in near/far IR. *Osche, G.R., +, PROC Feb 96 103-125*  
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**Layout; cf. Integrated circuit layout****Lead compounds**

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adaptive stochastic reson. learning syst. *Mitaim, S., +, PROC Nov 98 2152-2183*  
 foreign exchange markets noisy inform. proc. *Magdon-Ismail, M., +, PROC Nov 98 2184-2195*  
 machine learning with prior inform. by virtual examples. *Niyogi, P., +, PROC Nov 98 2196-2209*

**Learning control systems; cf. Neurocontrollers****Learning systems**

autonomous robots, adaptive neural control. *Schmajuk, N.A., PROC Oct 96 1553-1561*  
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 self-organizing map, props., engng. appls. *Kohonen, T., +, PROC Oct 96 1358-1384*  
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privacy aspects of biometrics. *Woodward, J.D., PROC Sep 97 1480-1492*

**Legal factors; cf. Copyright protection; Patents****Libraries**

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illum. of Panama-Pacific Internat. Exposition of 1915. *Brittain, J.E., PROC May 96 802*

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STM/AFM nano-oxid. proc., single-electron transistors, photoconductive switches, HEMT. *Matsumoto, K., PROC Apr 97 612-628*

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**Lithography**

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**Lithography; cf.** Electron beam lithography; X-ray lithography**Local area networks**

IR wireless high-speed short-range digital commun. *Kahn, J.M., +, PROC Feb 97 265-298*

testbed for twenty-first century. *Henning, I., +, PROC Oct 97 1572-1581*

**Local area networks; cf.** Wireless LAN**Logic**

RTD self-latching logic ccts., multiple-valued cct. appls. *Mazumder, P., +, PROC Apr 98 664-686*

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ENIAC electronic computing ccts., review of classic paper. *Schneck, P.B., PROC Jul 97 1169-1171*

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FPGAs, reprogrammable systs. *Hauck, S., PROC Apr 98 615-638*

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**Machine vision; cf.** Object recognition; Robot vision systems**Machining; cf.** Micromachining**Magnetic devices; cf.** Magnetic switches; Magnetic transducers; Magneto resistive devices**Magnetic disk recording**

patterned mag. nanostructures and quantized mag. disks. *Chou, S.Y., PROC Apr 97 652-671*

**Magnetic domains**

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**Magnetic force microscopy**

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**Magnetic forces**

biosensor, micromachined device. *Baselt, D.R., +, PROC Apr 97 672-680*

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mol. amplif. and generation of microwaves. *Wittke, J.P.*, *PROC Jul 97* 1144-1168

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nanolithography. *Cerrina, F.*, *PROC Apr 97* 644-651  
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**Measurement; cf. Aircraft instrumentation; Antenna measurements; Atmospheric measurements; Biomedical measurements; Electric variables measurement; Extraterrestrial measurements; Mechanical variables measurement; Phase measurement; Radar measurements; Remote sensing; Thermal variables measurement; Time domain measurements****Mechanical engineering**

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**Mechanical factors**

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**Mechanical variables measurement; cf. Acceleration measurement; Optical distance measurement; Pressure measurement; Strain measurement****Medical diagnosis**

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CAD. *Senturia, S.D.*, *PROC Aug 98* 1611-1626

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**Microcomputers**

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**Microcomputers; cf. Workstations****Microcontrollers**

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Si, bulk micromachining, etching methods review. *Kovacs, G.T.A.*, +, *PROC Aug 98* 1536-1551

SiC MEMS, harsh environ. *Mehregany, M.*, +, *PROC Aug 98* 1594-1609

**Microelectromechanical devices; cf. Microactuators; Microsensors****Micromachining**

biosensor, micromachined device. *Baselt, D.R.*, +, *PROC Apr 97* 672-680

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- Microprocessors; cf.** Digital signal processors; Microcontrollers
- Microscopy**  
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- Microscopy; cf.** Atomic force microscopy; Magnetic force microscopy
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- Millimeter wave communication; cf.** Millimeter wave radio communication
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**Multiaccess communication; cf. Code division multiaccess; Subscriber loops; Time division multiaccess****Multibeam antennas**

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**Optical fiber devices; cf.** Optical fiber lasers; Optical fiber transducers

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- Optical phase shifters**  
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- Optics; cf.** Integrated optics
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