

2006 Combined Subject Index

IEEE Industry Applications Society Publications

This Subject Index contains several entries for each item, each appearing under all relevant subject headings and consisting of phrase(s); the first author's name, followed by a + if the paper has coauthors; and information giving the location of the item. For coauthors and title, it is necessary to refer to the primary entry in the Combined Author Index. Subject cross-references are provided as required by the subject matter.

The location of the item is specified by the acronym (see list following), publication date, and inclusive pages.

| Acronym | Publication |
|------------|--|
| T-IA | IEEE Transactions on Industry Applications, Vol. 42, 2006 |
| APCA | 2006 Advanced Process Control Applications for Industry Workshop |
| APEC | 2006 Applied Power Electronics Conference |
| CITCON | 2006 IEEE Cement Industry Technical Conference |
| IAS | 2006 Industry Applications Society Annual Meeting |
| ICPS | 2006 IEEE Industrial and Commercial Power Systems Technical Conference |
| JCE | 2006 EPC/IEJ/SFE Joint Conference of Electrostatics |
| OPTIM | 2006 International Conference on Optimization of Electrical and Electronic Equipment |
| PAPCON | 2006 Annual Pulp and Paper Industry Technical Conference |
| PCICEUROPE | 2006 Petroleum and Chemical Industry Conference Europe – Electrical and Instrumentation Applications |
| PCICON | 2006 Petroleum and Chemical Industry Technical Conference |
| REPCON | 2006 Rural Electric Power Technical Conference |

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Discrete time systems

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Doppler measurement

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- Materials handling; cf.** Conveyors
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- Mathematical programming; cf.** Dynamic programming
- Mathematics; cf.** Estimation theory; Probability; Statistics
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Measurement; cf. Loss measurement; Noise measurement; Velocity measurement

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Medical diagnostic computing; cf. Medical image processing

Medical image processing

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Metals; cf. Aluminum; Zinc

Metals industry

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Meteorology; cf. Storms; Weather forecasting; Weather modification

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Object-oriented languages; cf. C++ language; Java

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Packaging; cf. Integrated circuit packaging; Multichip modules; Semiconductor device packaging**Paper**

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Parallel processing; cf. Parallel architectures**Parameter estimation**

- double-side LSM, slotless Fe-cored stator and PM mover, control params. estim. and discrete syst. modeling, design and bidirectional motion control. *Jang, S.M.*, +, *IAS-06 2006* 8 pp. vol.1
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- mag. saturation, sensorless control for interior PMSM, conc. windings. *Imai, N.*, +, *T-IA Sep-Oct 06* 1193-1200

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- controlling particle trajectories in free-fall separators. *Calin, L.*, +, *JCE-06 2006* 863

Particle spectrometers; cf. Particle separators**Particle velocity analysis**

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Passive networks; cf. Passive filters**Pattern recognition**

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Pulse width modulation; cf. PWM inverters

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Quantization (signal); cf.

Vector quantization

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Radar; cf.

Radar imaging

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Radar signal processing; cf.

Radar imaging

Radiation; cf.

Electromagnetic waves

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Radiation effects; cf.

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Radiocommunication; cf.

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Radio equipment; cf.

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Randomized algorithms; cf.

Genetic algorithms

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Reactive power; cf.

Reactive power control

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- Time-domain analysis; cf.** Time-frequency analysis
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- Time-varying systems; cf.** Stochastic systems
- Tolerance analysis**
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- Traction; cf.** Traction motors
- Traction motor drives**
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- Traction motors**
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- Transformers; cf.** Power transformers; Pulse transformers
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- variable freq. 48V voltage regulator module, self-sustained oscill. controller, design and experimentation. *Youssef, M.Z.*, +, *APEC-06 2005 9 pp.*

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Transistors; cf. Insulated gate bipolar transistors; Power transistors

Transition metals; cf. Copper; Scandium

Transmission; cf. Power transmission

Transmission lines

- multi-module GCSCs, large power syst., nonlin. modified PI control. *Ray, S.*, +, *IAS-06 2006 7 pp.* vol.3

Transmission lines; cf. Power transmission lines

Transmission networks

- response to "Equipotential planes, a figment of the imagination". *Gustafson, R.J.*, +, *ICPS-06 2006 8 pp.*

Transmitters; cf. Radio transmitters

Transmultiplexing

- JPEG2000 images transmission over wireless channels with unequal power distribution wavelet transmultiplexing. *Popescu, V.*, *OPTIM-06 2006 6 pp.*

Transport control; cf. Aerospace control

Transport processes; cf. Thermal conductivity

Trees (mathematics); cf. Fault trees

Triboelectricity

- coating pigment concentration on charging tendency of paper surface. *Hokkanen, T.*, +, *JCE-06 2006 513-516*
- foul-weather E-field on the Hindenburg disaster. *Seaver, A. E.*, *JCE-06 2006 441-457*
- non-frictional charging of polymers (polyethylene-oxide and polycarbonate by metals. *Akande, A. R.*, *JCE-06 2006 544-551*
- triboelectric, corona, and induction charging of insulators as a function of pressure. *Hogue, M. D.*, +, *JCE-06 2006 499-512*
- triboelectrification of paper in the offset printing process. *Murtomaa, M.*, +, *JCE-06 2006 517-524*

Triboelectricity; cf. Surface charging

Tribology; cf. Friction; Lubrication

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- coupling of processor simulators with a SystemC simulation environment. *Drogeanu, N.*, +, *OPTIM-06 2006 7 pp.*
- frequent and high speed startup of single phase IM, high reliab. trigger cct. *Zhang, Y.*, +, *APEC-06 2005 2 pp.*

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- distrib. act. filter systs., dyn. tuning method. *Po-Tai Cheng*, +, *IAS-06 2006 8 pp.* vol.1

Tuning; cf. Circuit tuning

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- 9-phase axial-flux PM sync. generator, conc. winding for direct-drive wind turbine, design and optim. *Vizircanu, D.*, +, *IAS-06 2006 7 pp.* vol.4
- bearing currents, doubly fed induction generators, reduction. *Garcia, A.M.*, +, *IAS-06 2006 6 pp.* vol.1
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- PM generator, wind turbine appl., sensorless control. *Esmaili, R.*, +, *IAS-06 2006 6 pp.* vol.4
- power fluct., wind turbine generators, DC bus capacitor filtering control scheme, atten. *Wei Li*, +, *IAS-06 2006 6 pp.* vol.1
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- turbine driven doubly-fed induction generator, internal model current control. *Hu Jia-bing*, +, *IAS-06 2006 7 pp.* vol.1

Turbines; cf. Gas turbines; Steam turbines; Wind turbines

Turbulent flow

- AC dielectric barrier discharge for separation control in the case of a turbulent jet diffuser. *Labergue, A.*, +, *JCE-06 2006 35-44*

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- robust controller, polynomial chaos theory. *Smith, A.*, +, *IAS-06 2006 7 pp.* vol.5

Uncertain systems; cf. Fuzzy systems

Underground power distribution lines

- capacitance, high-resist.-grounded mine distrib. systs., detrimental effects. *Sottile, J.*, +, *T-IA Sep-Oct 06 1333-1339*
- distrib. syst. operation, dyn. prog. method, generic switching actions. *Yen-Ming Tzeng*, +, *ICPS-06 2006 7 pp.*

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- UPS inverter, progressively converging deadbeat control. *YaDong Liu*, +, *APEC-06 2005* 7 pp.
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- e-learning platform specifications. *Romanca, M.*, +, *OPTIM-06 2006* 6 pp.
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- Valves**
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- Vapor deposition; cf.** Chemical vapor deposition
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Waste disposal; cf. Recycling

Water pollution

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Waveform analysis; cf. Spectral analysis

Waveguides; cf. Parallel plate waveguides

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Waves; cf. Charge density waves; Electromagnetic waves

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Welding; cf. Lead bonding

Wigner distribution

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Windings; cf. Machine windings; Transformer windings

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