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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. Departments and other items may also be 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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- IP-based CDMA radio access nets., congestion control policies. *Kasera, S.K.*, +, *T-MC Jul-Aug 05* 349-362
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- tolerating wireless channel errors, TCP-DCR, protocol. *Bhandarkar, S.*, +, *T-MC Sep-Oct 05* 517-529
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F**Fading; cf.** Fading channels**Fading channels**improved location-based handover algm., GSM meas. data, validation. *Hsin-Piao Lin, +, T-MC Sep-Oct 05 530-536***Fault tolerance**efficient fault-tolerant distributed channel allocation algorithm for cellular networks. *Yang, J., +, T-MC Nov-Dec 2005 578-587***File organization; cf.** Database management systems**Filtering**cellular nets., Kalman filtering, real-time mobility tracking algms. *Zaidi, Z.R., +, T-MC Mar-Apr 05 195-208***Frequency division multiplexing**FDD W-CDMA MAC protocol, min.-power allocation and GPS-sched. for wireless wide area multimedia nets. *Xudong Wang, T-MC Jan-Feb 05 16-28***Frequency division multiplexing; cf.** OFDM modulation**Frequency hop communication**analysis of error inducing parameters in multihop sensor node localization. *Savvides, A., +, T-MC Nov-Dec 2005 567-577***Fuzzy control**W-CDMA cellular nets. by fuzzy logic, call admission control. *Jun Ye, +, T-MC Mar-Apr 05 129-141***G****Game theory**ARC, integr. admission and rate control framework for competitive wireless CDMA data nets., noncooperative games. *Haitao Lin, +, T-MC May-Jun 05 243-258***Geometry; cf.** Computational geometry**Graph theory**commun. dist. and appl., 6 situations, mobile environments, concept. *Nickerson, J.V., T-MC Sep-Oct 05 409-419*
sens. nets., worst and best-case coverage. *Megerian, S., +, T-MC Jan-Feb 05 84-92***I****Identification; cf.** State estimation**IEEE**list of reviewers, 2004. *T-MC Jan-Feb 05 93-94***Image coding; cf.** Video coding**Information networks; cf.** Internet**Information retrieval**adaptive cache retrieval scheme, mobile comput. environ., design and perform. studies. *Wen-Chih Peng, +, T-MC Jan-Feb 05 29-40***Information science; cf.** Information retrieval**Information systems; cf.** Database management systems**Information theory; cf.** Encoding; Prediction theory**Internet**inform. raining and optimal link-layer design for mobile hotspots. *Ho, D.H., +, T-MC May-Jun 05 271-284*link layer and MAC layer protocols, support TCP, 3G CDMA systs., perform. study. *Lin, H., +, T-MC Sep-Oct 05 489-501***K****Kalman filtering**cellular nets., Kalman filtering, real-time mobility tracking algms. *Zaidi, Z.R., +, T-MC Mar-Apr 05 195-208*delay-tolerant sens. nets., node localization, mobile robots. *Pathirana, P.N., +, T-MC May-Jun 05 285-296***L****Land mobile radio**inform. raining and optimal link-layer design for mobile hotspots. *Ho, D.H., +, T-MC May-Jun 05 271-284***Land mobile radio cellular systems**fair resource allocation, guaranteed stat. QoS for multimedia traffic, W-CDMA cellular net. *Liang Xu, +, T-MC Mar-Apr 05 166-177*

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*Hsin-Piao Lin, +, T-MC Sep-Oct 05 530-536*IP-based CDMA radio access nets., congestion control policies. *Kasera, S.K., +, T-MC Jul-Aug 05 349-362*mobile commun. systs., cell coords. approach, enhanced dist.-based location mgt. *Ng, C.K., +, T-MC Jan-Feb 05 41-55*nets., Kalman filtering, real-time mobility tracking algms. *Zaidi, Z.R., +, T-MC Mar-Apr 05 195-208*optimal offline/online registration techs. for location mgt., overlapping registration areas. *Varsamopoulos, G., +, T-MC Sep-Oct 05 474-488*power and time meas. for mobile terminal location, data fusion. *McGuire, M., +, T-MC Mar-Apr 05 142-153*W-CDMA cellular nets. by fuzzy logic, call admission control. *Jun Ye, +, T-MC Mar-Apr 05 129-141***Linear systems**cellular nets., Kalman filtering, real-time mobility tracking algms. *Zaidi, Z.R., +, T-MC Mar-Apr 05 195-208***Local area networks; cf.** Wireless LAN**M****Markov processes**CDMA wireless nets. perform. study under multipath, multiuser interf., collision-capture effect, hierarchy schedule sens. protocol. *Hsiao-Hwa Chen, +, T-MC Mar-Apr 05 178-188*cellular nets., Kalman filtering, real-time mobility tracking algms. *Zaidi, Z.R., +, T-MC Mar-Apr 05 195-208*dynamical mobile terminal location registration in wireless PCS networks. *Liu, Z., +, T-MC Nov-Dec 2005 630-640*link layer and MAC layer protocols, support TCP, 3G CDMA systs., perform. study. *Lin, H., +, T-MC Sep-Oct 05 489-501***Mathematical analysis; cf.** Calculus**Mathematics; cf.** Probability; Statistics**Measurement; cf.** Spatial variables measurement**Military communication**min. cost heterog. sens. net., lifetime constraint. *Mhatre, V.P., +, T-MC Jan-Feb 05 4-15***Military systems; cf.** Military communication**Mobile communication; cf.** 3G mobile communication**Mobile radio; cf.** Land mobile radio; Paging communication**Mobile robots**delay-tolerant sens. nets., node localization, mobile robots. *Pathirana, P.N., +, T-MC May-Jun 05 285-296***Mobility management (mobile radio)**location management of correlated mobile users in the UMT. *Gau, R.-H., +, T-MC Nov-Dec 2005 641-651*mobility prediction arch. based on contextual knowledge and spatial conceptual maps. *Samaan, N., +, T-MC Nov-Dec 2005 537-551*user pattern learning strategy for managing users' mobility in UMTS networks. *Quintero, A., T-MC Nov-Dec 2005 552-566***Modulation**ad hoc routing protocols with/without channel adaptation, quantitat. comp. *Xiao-Hui Lin, +, T-MC Mar-Apr 05 111-128***Modulation; cf.** OFDM modulation**Monitoring**soft tamper-proofing via program integrity verification, wireless sens. nets. *Taejoon Park, +, T-MC May-Jun 05 297-309***Multi-access systems; cf.** Code division multiple access**Multimedia communication**fair resource allocation, guaranteed stat. QoS for multimedia traffic, W-CDMA cellular net. *Liang Xu, +, T-MC Mar-Apr 05 166-177*FDD W-CDMA MAC protocol, min.-power allocation and GPS-sched. for wireless wide area multimedia nets. *Xudong Wang, T-MC Jan-Feb 05 16-28*traffic, rate guarantee and fair access, WCDMA systs., dyn. bandwidth allocation. *Chih-Min Chao, +, T-MC Sep-Oct 05 420-429*wireless environments, supporting power-efficient streaming appls. *Hao Zhu, +, T-MC Jul-Aug 05 391-403***Multimedia systems; cf.** Multimedia communication**Multipath channels**wireless video, CDMA nets., optimal resource allocation. *Shengjie Zhao, +, T-MC Jan-Feb 05 56-67***Multiplexing; cf.** Frequency division multiplexing

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FDD W-CDMA MAC protocol, min.-power allocation and GPS-sched. for wireless wide area multimedia nets. *Xudong Wang*, *T-MC Jan-Feb 05* 16-28

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fair resource allocation, guaranteed stat. QoS for multimedia traffic, W-CDMA cellular net. *Liang Xu*, +, *T-MC Mar-Apr 05* 166-177

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efficient fault-tolerant distributed channel allocation algorithm for cellular networks. *Yang, J.*, +, *T-MC Nov-Dec 2005* 578-587

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Stochastic processes; cf. Markov processes

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Telecommunication network routing; cf. Routing protocols

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