P Crespo, RM Pelz, J Cosmas - IEE Proceedings-Communications, 1994 - ieeexplore.ieee.org
... directions through **TDD**. ... of a single user, ie one particular time slot of the TDMA **frame**. ... The design of efficient forward error correction (**FEC**) methods should ...
Cited by 10 - Web Search - link.aip.org

Retransmissions versus **FEC** plus interleaving for real-time applications: a comparison between CDPA ...
F Borgonovo, A Capone, L Fratta - IEEE Journal on Selected Areas in Communications, 1999 - ieeexplore.ieee.org
... or wrongly by the error detecting **frame** check sequence ... duplexing (FDD) or time division duplexing (**TDD**). ... et al.: RETRANSMISSIONS VERSUS **FEC** PLUS INTERLEAVING ...
Cited by 7 - Web Search - elet.polimi.it - ieeexplore.ieee.org

Adaptive modulation for fading channels
J Tang, J Wang - Circuits and Systems, 2000. IEEE APCCAS 2000. The 2000 IEEE ..., 2000 - ieeexplore.ieee.org
... BhK,, The best **frame's** bit error rate ... kept at a constant level, thus feeding the **FEC** algorithms with ... Radio Communication System using NP- CSMA/**TDD** Scheme," IEEE ...
Cited by 1 - Web Search - ieeexplore.ieee.org

INTERACTIVE CELLULAR AND CORDLESS VIDEO COMMUNICATIONS
L Hanzo, P Cherriman - IEEE Communications Magazine, 1998 - ecs.soton.ac.uk
... ment feedback ag is transmitted within a **TDD frame** dur- ation of ... interval encountered in case of a video **frame** rate of ... C1 **FEC** BCH 127,85,6 BCH 255,171,11 BCH ...
Cited by 1 - View as HTML - Web Search

Design and Performance of TDMA Based Radio Component for ATM Wireless Access (AWA) Prototype.
S Aikawa, S Uwano, Y Nakayama, S Kurosaki, H ... - Global Telecommunications Conference, 1998. GLOBECOM 98. The ..., 1998 - ieeexplore.ieee.org
... capacit Number of users Access system Interface **Frame** length Number ... Antenna Modulation Demodulation Roll-off factor **FEC** 80Mbps 50Mbps ... 6 B-RM/B-CS TDMA-**TDD** OC-3 ...
Cited by 1 - Web Search - ieeexplore.ieee.org

Interactive Cellular and Cordless Video Telephony: State-of-the-Art System Design Principles and ...
L Hanzo, P Cherriman, EL Kuan - Proc. IEEE, 2000 - ieeexplore.ieee.org
... For an FCH transmitted in a 20-ms **frame**, two sets of ... **FEC**: Forward Error Correction Coding. ... TDMA/**TDD**: Time Division Multiple Access/Time Division Duplexing ...
Cited by 10 - Web Search - iee.org - eprints.ecs.soton.ac.uk - citebase.eprints.org - all 9 versions »

Adaptive Modulation for Fading Channels
NC Ericsson, A Ahlen, M Sternad - Globecom99, Rio de Janeiro, December, 1999 - signal.uu.se
... The experiment is applicable to both **TDD** and FDD systems ... IQP R S`Yba The best **frame**'s bit error ... excellent basis for Forward Error Correction (**FEC**) codes, such ...
Cited by 2 - View as HTML - Web Search - signal.uu.se

Congestion control for integrated video and data transmission in a wireless LAN
S Tasaka, K Hayashi, Y Ishibashi, MAC ALOHA— ... - The 1995 IEEE Global Telecommunications Conference, GLOBECOM ..., 1995 - ieeexplore.ieee.org
... 1: Channel '**frame** structure of **TDD** ALOHA— Reservation ... Each video terminal generates a video **frame** every t ... powerful error control technique including **FEC** is em ...
Cited by 6 - Web Search - ieeexplore.ieee.org - csa.com

The Applications of Retransmission Schemes in the Radio Interface of Mobile Communication Systems
Z Suli - Communications, 1999. APCC/OECC'99. Fifth Asia-Pacific ..., 1999 - ieeexplore.ieee.org
... I HARQ and type I1 HARQ for the **TDD** (time division ... its physical layer, which only need **FEC** decoding (and ... repetition is based on a cyclic **frame** numbering, which ...
Web Search - ieeexplore.ieee.org

The Performance of the United Demodulator of MLSE and Viterbi Decoder with Interleaving (UDMVI)
M UESUGI, O Kato, K Homma - Wireless Communications Conference, 1997., Proceedings, 1997 - ieeexplore.ieee.org
... The combination of convolutional coder and Viterbi decoder is representative of **FEC** and ... (ADPG) is suitable for **TDD** system. ... Fig.7 shows the **frame** format. ...
Web Search - ieeexplore.ieee.org

A burst-level error generation model for 2 GHz personal radio communications

PETITIONER NOKIA
Ex.1012

A Betti, E Costamagna, L Favalli, P Savazzi - Vehicular Technology Conference, 1999. VTC 1999-Fall. IEEE ..., 1999 - ieeexplore.ieee.org
... errors determining suitable error control mechanisms (**FEC**, ARQ or ... speech communication, due to the **TDD** concept, uses ... equally spaced by a half **frame** duration in ...
Cited by 2 - Web Search - ieeexplore.ieee.org

Error recovery for interactive video transmission over the Internet

I Rhee, SR Joshi - IEEE Journal on Selected Areas in Communications, 2000 - ieeexplore.ieee.org
... Since retransmission always incurs delays, and **FEC** is still susceptible to burst losses, a hybrid ARQ scheme still ... The **TDD** of periodic **frame** is called ...
Cited by 17 - Web Search - csc.ncsu.edu - cchen1.et.ntust.edu.tw - cchen2.et.ntust.edu.tw - all 6 versions »

The Magic WAND-functional overview

J Mikkonen, J Aldis, G Awater, A Lunn, D Hutchison - IEEE Journal on Selected Areas in Communications, 1998 - ieeexplore.ieee.org
... Thus, processing per packet and **frame** is minimized in native ATM networks. ... From the energy perspective, the **frame** duration should be made as long as possible. ...
Cited by 34 - Web Search - comsoc.org - ieeexplore.ieee.org

Fast Code Rate Adaptation for Indoor Precoded Packet Wireless Systems

RE Badra, B Daneshrad - Wireless Communications and Networking Conference, 2000. ..., 2000 - ieeexplore.ieee.org
... under a Time Division Duplex (**TDD**) scheme whereby ... Additionally, current **frame** information can also be combined ... This article presents an adaptive **FEC** scheme for ...
Web Search - ieeexplore.ieee.org

Overview of wireless personal communications

JE Padgett, CG Gunther, T Hattori - IEEE Communications Magazine, 1995 - cse.buffalo.edu
... TDMA CDMA Frequency **TDD** CT2 ... In its present version, GSM supports full-rate (22.8 kb/s, eight slots/**frame**) and half-rate (11.4 kb/s, 16 slots/**frame**) operation. ...
Cited by 123 - View as HTML - Web Search - comsoc.org - cs.toronto.edu - ieeexplore.ieee.org - all 5 versions »

Fixed wireless access: a market and system overview

C Hart - Electronics and Communication Engineering Journal, 1998 - ieeexplore.ieee.org
... timeslot 32 kbit/s (user can access up to 3 timeslots per **frame**) Base station ... sensitivity —l025 dBm (at the antenna connector, for BER <10 , pre **FEC**) RSS Tx ...
Cited by 1 - Web Search - ieeexplore.ieee.org - csa.com

OFDM subchannel space-combining transmission diversity for broadband wireless communication systems

Y Matsumoto, N Mochizuki, M Umehira - IEEE ICUPC, 1998 - ieeexplore.ieee.org
... Also, a TDMA-**TDD** (time divi- sion multiple access ... M=2, N=4). In the transmitting **frame** timing from ... 4) for forward error correction (**FEC**), convolutional coding ...
Cited by 5 - Web Search - ieeexplore.ieee.org

Handoff between dissimilar systems: general approaches and air interface issues for TDMA systems

NW Whinnett - IEEE VEH TECHNOL CONF, 1995 - ieeexplore.ieee.org
... Division Duplex (FDD) while DECT is Time Division Duplex (**TDD**). ... duty cycle (ie most slots per **frame**.) d) For one ... in the case of cordless systems with no **FEC**. ...
Cited by 5 - Web Search - ieeexplore.ieee.org - csa.com

PHS with Packet Data Communications (PHS-PD) Protocol Architecture

T ICHIKAWA, H KAYAMA, H YAMAMOTO, Y INOUE - Vehicular Technology Conference, 1997 IEEE 47th, 1997 - ieeexplore.ieee.org
... I Radioaccessmethods I TDMA-**TDD** I ... The **frame** structure of PHS is shown in Fig. ... PHS-PD does not adopt **FEC** because the fade duration is W-TLa+l@ & jQ ...
Web Search - ieeexplore.ieee.org

Dynamic channel allocation in wireless ATM networks

A Kraemling, M Scheibenbogen, B Walke - Wireless Networks, 2000 - kluweronline.com
... In the HIPERLAN/2 system owing to the **TDD** mode of ... is calculated for each slot of the MAC **frame** with all ... our simulations a Reed–Solomon (65,55) **FEC** (for- ward ...
Cited by 11 - Web Search - portal.acm.org - springerlink.com - ingentaconnect.com - all 6 versions »

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Ex.1012

Improved Selective Repeat ARQ Scheme for Mobile Multimedia Communications
WS Jeon, DG Jeong - IEEE Commun. Lett, 2000 - ieeexplore.ieee.org
... physical layer, the forward error correction (**FEC**) with error ... has shorter mean delay for successful **frame** transmission ... Jeong and WS Jeon, "CDMA/**TDD** system for ...
Cited by 5 - Web Search - inf.fh-brs.de - mobilenet.snu.ac.kr - inf.fh-rhein-sieg.de - all 5 versions »

A CONGESTION CONTROL MECHANISM IN WIRELESS ATM ACCESS NETWORKS
IE Dravopoulos - Communications, 1999. ICC'99. 1999 IEEE International ..., 1999 - ieeexplore.ieee.org
... A Time Division Multiple Access / Time Division Duplex (TDMA/**TDD**) scheme is ... JME **FRAME** STRUCI'URE ... need is more on information integrity, and use **FEC** on real ...
Web Search - ieeexplore.ieee.org

High-Quality and High-Speed Wireless Multimedia Transmission Technology for Personal Handy Phone ...
H TAKANASHI, T TANAKA, T OONO, H MATSUKI, T ... - Wireless Personal Communications, 1998 - kluweronline.com
... 1.9 GHz Access method TDMA – **TDD** Traffic channels ... repeat request (ARQ) and forward error collection (**FEC**). ... may be redundant, however, ARQ **frame** numbering is ...
Cited by 3 - Web Search - springerlink.com - portal.acm.org

5 GHz-band advanced wireless access system for mobile multimedia applications
M Umehira, A Ohta, O Kagami, H Hojo, T Kobayashi - IEEE VEH TECHNOL CONF, 2000 - ieeexplore.ieee.org
... Channel spacing Modulation Demodulation **FEC** Transmission rate Link adaptation ... TDMA-**TDD** 18 ... AT : Time width per **frame** for adjustment 4 1 MAC **frame** (2 msec) ...
Cited by 9 - Web Search - csa.com

EXPLOITING THE SPATIAL DOMAIN FOR HIGH BIT RATE INDOOR COMMUNICATIONS
P Hafezi, M Beach, A Nix, Y Sun - Antennas and Propagation for Future Mobile Communications (..., 1998 - ieeexplore.ieee.org
... This interface provides a data rate of 70 Mbit/s(in **TDD**). Figure I also includes certain nominal power levels ... Two types of Reed-Solomon **FEC** code ... Each **frame** ...
Web Search - ieeexplore.ieee.org

Performance evaluation in a large environment for the AWACS system
S Barberis, E Gaiani, B Melis, G Romano, T CSELT - Universal Personal Communications, 1998. ICUPC'98. IEEE 1998 ..., 1998 - ieeexplore.ieee.org
... pre-prototype **frame** format is a TDMA-**TDD** (Time Division ... The **frame** duration is 2 ms [3}. Each time slot carries 8 ATM cells with Forward Error Correction (**FEC**). ...
Web Search - ieeexplore.ieee.org

Wireless ATM MAC Performance Evaluation, Case Study: HIPERLAN vs. modified MDR.
L Nenonen, J Mikkonen, NM Phones - MOBICOM, 1996 - portal.acm.org
... Wireless ATIUMAC Description References MDR Multiservice Dynamic [3], [I41 Reservation; based on dynamic TDMA!**TDD**; design by NEC ... **Frame** length 2ms **FEC** ...
Cited by 4 - Web Search - cs.ucla.edu - portal.acm.org

Emerging wireless broadband networks
J Mikkonen, C Corrado, C Evci, M Progler - IEEE Communications Magazine, 1998 - ieeexplore.ieee.org
... function is to handle data **frame** and packet ... air interface, and efficient error con- **FEC** Complementary Reed ... TDMAT1DD TDMA,IDD TDMNFDD TDMA/**TDD** independent code ...
Cited by 25 - Web Search - comsoc.org - ieeexplore.ieee.org

Reservation-based bandwidth allocation in a radio ATM network
GM Stamatelos, VN Koukoulidis - IEEE/ACM Transactions on Networking, 1997 - ieeexplore.ieee.org
... S WITCHED -A NTENNA D IVERSITY AND **FEC** C ODING ... duration in the control portion of the **frame** (see also [23]). Subsequent transmission in a TDM/**TDD** mode based on ...
Cited by 4 - Web Search - portal.acm.org - portal.acm.org - ieeexplore.ieee.org

A survey on wireless ATM technologies and standardization
B Bing - Telecommunication Systems, 1999 - springerlink.com
... The problem is that a **FEC** decoder will produce burst ... depending on the degree of compression for each **frame**. ... TDMA with time division duplex (**TDD**) and contention ...
Cited by 4 - Web Search - kluweronline.com

An Efficient Media Access Control Protocol for Delay Sensitive Bursty Data in Bro ...

PETITIONER NOKIA
Ex.1012

J Jiang, TH Lai - Personal, Indoor and Mobile Radio Communications, 1998. The ..., 1998 - ieeexplore.ieee.org
... receiving state to transmit- ting state), **TDD** provides better ... We also assume forward
error control (**FEC**) is used in ... The time **frame** structure in our protocol is ...
Web Search - ieeexplore.ieee.org

IP Optimized Broadband Wireless Access

T Ojanpera, J Makinen - Personal, Indoor and Mobile Radio Communications, 2000. ..., 2000 - ieeexplore.ieee.org
... HiperAccess proposal 1 millisecond DL: **TDD**/FDD ... EI, T1, n*64 kbiVs, ATM, Ethernet,
Frame Relay, Ipv4 ... proposed MAC when carrying IP traffic, including **FEC** and all ...
Web Search - ieeexplore.ieee.org

Ovewiew of Wireless Personal Cornrnunrcatrons

JE Padgett, CG Giinther, T Hattori - IEEE Communications Magazine, 1995 - cs.bilkent.edu.tr
... FDD c **TDD** ... In its prcsent version, GSM supports full-rate (22.8 kbis,
eightslots/**frame**) and hall-rate (I 1.4 kh/s. Ih slotsiframe) opcration. ...
View as HTML - Web Search

Impact of wireless access on traffic management in ATM networks

R Sigle, T Renger - Computer Networks, 1999 - ikr.uni-stuttgart.de
... While **FEC** (adopted to a single data packet) doesn ... wireless ATM MAC operation using
TDMA/**TDD** access is ... informs the mobile stations through a **frame** control packet ...
Cited by 2 - View as HTML - Web Search - ingentaconnect.com - portal.acm.org - all 7 versions »

Bandwidth-efficient wireless multimedia communications

L Hanzo - Proceedings of the IEEE, 1998 - ieeexplore.ieee.org
... FDMA Frequency division multiple access. **FEC** Forward error correction. ... MV
Motion vector, a vector to estimate the motion in a **frame**. ...
Cited by 35 - Web Search - ece.utexas.edu - cs-www.cs.yale.edu - wsl.stanford.edu - all 11 versions »

Wireless ATM: limits, challenges, and proposals

E Ayanoglu, KY Eng, MJ Karol, L Technologies - IEEE Personal Communications, 1996 - cs.cmu.edu
Page 1. t is instructive to review how asynchronous transfer mode (ATM) technology
came into being in order to discuss why wireless ATM makes any sense or not. ...
Cited by 83 - View as HTML - Web Search - ihp-ffo.de - newport.eecs.uci.edu - ieeexplore.ieee.org - all 7 versions »

ATM for Wireless Networks

BKT Bing, NA Polytech - ATM, 1998. ICATM-98., 1998 1st IEEE International Conference ..., 1998 - ieeexplore.ieee.org
... approach abandons the concept of a **frame** reference altogether ... The problem is that
a **FEC** decoder will produce ... TDMA with time division duplex (**TDD**) and contention ...
Web Search - ieeexplore.ieee.org

Bluetooth in Industrial Environment

U Bilstrup, PA Wiberg - Proceedings of the 2000 IEEE International Workshop on ..., 2000 - ieeexplore.ieee.org
... one piconet because of the Time Division Duplex (**TDD**) scheme, but ... HV3, DH1, DH3 and
DH5 packets use no **FEC** at all ... made out of plaster tiles with a **frame** of wood ...
Cited by 13 - Web Search - hh.se - www-md.e-technik.uni-rostock.de - hh.se - all 6 versions »

Techniques for channel estimation, DC-offset compensation, and link quality control in Bluetooth ...

CH Park, JH Paik, YH You, MC Ju, JW Cho - IEEE TRANS CONSUM ELECTRON, 2000 - ieeexplore.ieee.org
... system adopts a slotted time division duplex (**TDD**) scheme for ... is 625 ps length and
two slots form one **frame**. ... Also, **FEC** and ARQ are used as error correc- tion ...
Cited by 3 - Web Search - ieeexplore.ieee.org - csa.com

Radio Link Configurations of Broad-band Wireless Access System

K Koga, Y Fujimoto, S Tejima - Personal Wireless Communication, 1999 IEEE International ..., 1999 - ieeexplore.ieee.org
... random access time slot in a TDMA **frame** on a ... 6] have been being developed with
TDM/TDMA/**TDD** configuration because of ... This can easily be made in **FEC** decoder by ...
Cited by 1 - Web Search - ieeexplore.ieee.org

Cellular wireless local area network with QoS guarantees for heterogeneous traffic

S Choi, KG Shin - MOBILE NETWORKS APPL, 1998 - portal.acm.org
... usually a half) of each time **frame** is al ... But, dynamic **TDD** allows for more efficient

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link utilization in the ... We use an **FEC** (Forward Error Correction) scheme for ...
Cited by 23 - Web Search - kluweronline.com - mwnl.snu.ac.kr - eecs.umich.edu - all 13 versions »

The evolution of personal communications
R Steele - IEEE Personal Communications, 1994 - ieeexplore.ieee.org
... speech eodees and with their new **FEC** codees will ... 12 channels but instead of using
FDD it employs **TDD**. ... than continuous, and that a time **frame** structure prevails ...
Cited by 18 - Web Search - ieeexplore.ieee.org - citebase.eprints.org - eprints.ecs.soton.ac.uk - all 5 versions »

MMSE based Joint Channel Estimation for Time Division CDMA
M Weckerle - Spread Spectrum Techniques and Applications, 2000 IEEE Sixth ..., 2000 - ieeexplore.ieee.org
... Partnership Project) [I]. In its **TDD** mode, the IMT ... details of the burst and **frame**
structures applied ... scheme chip impulse filter [12] convolutional encoder (**FEC**) ...
Web Search - ieeexplore.ieee.org

Space-Time Signal Processing utilizing Multi-Step Joint Detection for the Uplink of Time Division ...
M Weckerle, T Weber, PW Baier, J Oster - Communication Technology Proceedings, 2000. WCC-ICCT 2000. ..., 2000 - ieeexplore.ieee.org
... eration Partnership Project) [I]. In its **TDD** mode, the ... details of the burst and **frame**
structures applied ... impulse filter [8] convolutional encoder (**FEC**) 23,35 ...
Cited by 1 - Web Search - ieeexplore.ieee.org

Hybrid type-II ARQ/AMS supported by channel predictive scheduling in a multi-user scenario
NC Ericsson, A Ahlen, S Falahati, A Svensson - IEEE VEH TECHNOL CONF, 2000 - signal.uu.se
... **frame**. The queues are emptied in a bit-by-bit manner, indepen- dently of the individual
packet boundaries. The bit-stream is passed to the link-layer **FEC**/ARQ ...
Cited by 15 - View as HTML - Web Search - db.s2.chalmers.se - ieeexplore.ieee.org - csa.com - all 5 versions »

Realtime testbed for a third generation mobile communication system
N Metzner, F David, HJ Eul, I Introduction, IIF ... - IEEE VEH TECHNOL CONF, 1994 - ieeexplore.ieee.org
... requires that this service mainly relies on **FEC** techniques ... up to 72 slots per 1'DMA
frame (pico cells ... is designed to support both FDD and **TDD** functionality in ...
Cited by 2 - Web Search - ieeexplore.ieee.org - csa.com

Multipriority video transmission for third-generation wireless communication systems
H Gharavi, SM Alamouti - Proceedings of the IEEE, 1999 - ieeexplore.ieee.org
... schemes are the frequency- division-duplex (FDD) mode, the time-division duplex
(**TDD**) mode, and ... The **frame** length is 10 ms, which corresponds to 40 960 chips. ...
Cited by 24 - Web Search - w3.antd.nist.gov - w3.antd.nist.gov - csa.com - all 5 versions »

Burst-by-burst adaptive wideband wireless video telephony
L Hanzo, CH Wong, P Cherriman - IEEE Signal Processing Mag, 2000 - www-mobile.ecs.soton.ac.uk
... **Frame** Rate (fr/s) 10 10 10 10 10 10 C1 **FEC** BCH(127,71,9) BCH(127,50,13)
BCH(127,71,9) BCH(127,50,13) BCH(127,50,13) BCH(127,71,9) ...
Cited by 3 - View as HTML - Web Search - ieeexplore.ieee.org - citebase.eprints.org - eprints.ecs.soton.ac.uk - all 6 versions »

Design and Performance of Radio Channel Control Method for AWA Prototype
H Sato, T Terashima, T Okada, T Manabe, H Matsue - Personal, Indoor and Mobile Radio Communications, 1998. The ..., 1998 - ieeexplore.ieee.org
... ch is also used for TDMA-**TDD** antenna Tracking control for di- is used to transmit
and receive 661 Uclr ATM cells. AUch contains 8 ATM cells for **frame** efficiency ...
Web Search - ieeexplore.ieee.org

[PS] A Low-Delay Multimode Speech Terminal
JP Woodard, JM Torrance, L Hanzo - 46th Vehicular Technology Conf, 1996 - www-mobile.ecs.soton.ac.uk
... bursty Rayleigh channels an even stronger **FEC** code would ... at both ends of the transmitted
frame, which also ... conversations in Time Divi- sion Duplex (**TDD**) mode. ...
Cited by 2 - View as HTML - Web Search - ieeexplore.ieee.org - citebase.eprints.org - eprints.ecs.soton.ac.uk - all 6 versions »

An overview of broad-band access technologies
M Gagnaire - Proceedings of the IEEE, 1997 - ieeexplore.ieee.org
... EC Echo cancellation. **FEC** Forward error correction. ... For instance, 512 kb/s or

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2 Mb/s rates are necessary for access to **frame** relay networks. ...
Cited by 26 - Web Search - ieeexplore.ieee.org

Robust and scalable matching pursuits video transmission using the Bluetooth air interface standard
MF Tariq, P Czerepinski, A Nix, D Bull, N ... - IEEE Transactions on Consumer Electronics, 2000 - ieeexplore.ieee.org
... MODEL Bluetooth is a time division duplex (**TDD**) system that ... can be protected using a rate 2/3 **FEC** code. ... displaced **frame** difference (DFD) signal over a basis of ...
Cited by 4 - Web Search - ieeexplore.ieee.org - csa.com

Bluetooth-based wireless connectivity in an automotive environment
R Nuesser, RM Pelz - IEEE VEH TECHNOL CONF, 2000 - ieeexplore.ieee.org
... Section 5 describes an application **frame**- work which is ... Use of Forward Error Correction (**FEC**) limits the ... accomplished by means of a TDh4A-**TDD** scheme, where ...
Cited by 11 - Web Search - ieeexplore.ieee.org - csa.com

ADSL, VDSL, and multicarrier modulation
JAC Bingham - 2000 - doi.wiley.com
... 1 Basic SDMT System Compatible with **TDD** BRI 222 ... Floating point, 264 Forward error correction (**FEC**), 60, 84 ... wire conversion (4W/2W), see Hybrid **Frame**-based user ...
Cited by 38 - Web Search - file.21ic.com.cn - nerd-star.com - laogu.com - all 6 versions »

WASP: a Transparent Wireless ATM Access Demonstrator
GA Awater - Personal, Indoor and Mobile Radio Communications, 1997.' ..., 1997 - ieeexplore.ieee.org
... Drawbacks of **TDD** include lower two-way throughput and ... made available within the project's time **frame**, a 2 ... are that they allow selective (per VC) **FEC** (Forward ...
Web Search - ieeexplore.ieee.org

A Performance Study of Multiple Access Control Protocols for Wireless Multimedia Services
YK Kwok, VKN Lau - 2000 International Conference on Network Protocols, 2000 - ieeexplore.ieee.org
... FDD Based **TDD** Based A ... taxonomy shown in Figure 1, seven recent protocols are selected for our quantitative comparison, non- dynamic fixed **frame** structure with ...
Web Search - ieeexplore.ieee.org - portal.acm.org - csa.com

EXTENDING DECT RANGE THROUGH SPEECH CODING CONTROiL
S Torres-Guijarro, R Sanchez-Perez, FJ Casajus- ... - Vehicular Technology Conference, 1998. VTC 98. 48th IEEE, 1998 - ieeexplore.ieee.org
... rate is recommended (for example in the next **frame** is over ... is performed at the base station, the **FEC** code has ... Click Noise Detection Scheme for TDMA-**TDD** Systems ...
Web Search - ieeexplore.ieee.org

The Influence of Segmentation Mismatch on Quality of Audio-Video Transmission by Bluetooth
H OKURA, K Masami, S TASAKA - IEICE TRANS. COMMUN, 1999 - inl.elcom.nitech.ac.jp
... is based on a time division duplex (**TDD**) polling scheme ... we focus on the RFCOMM Maximum **Frame** Size and ... ACL packets User Asymmetric Type payload **FEC** ARQ maximum ...
View as HTML - Web Search

Call Admission Control for QoS Provisioning in Multimedia Wireless ATM Networks
DS EOM, M SUGANO, M MURATA, H Miyahara - IEICE Transactions on Communications, VE-82B, no, 1999 - final.korea.ac.kr
... 1, TDMA/**TDD** protocol can divide a fixed length **frame** into uplink (from terminal to base station) and down- link dynamically, so that it is applicable to the ...
Cited by 4 - Web Search - osaka-hsu.ac.jp - rehab.osakafu-u.ac.jp

Adaptive modulation system with punctured convolutional code for high quality personal communication ...
H Matsuoka, S Sampei, N Morinaga, Y Kamio - IEICE Transactions on Communications, 1996 - ieeexplore.ieee.org
... 1) consist S symbols. In this system. the burst length is 1.26 msec aimd the **frame** length is 10.08 1155CC because of employing 4 channel TDMA/**TDD**. Fig. ...
Cited by 9 - Web Search - ieeexplore.ieee.org - csa.com

Radio resource allocation in fixed broadband wireless networks
TK Fong, PS Henry, KK Leung, X Qiu, NK ... - IEEE Trans. Commun, 1998 - ieeexplore.ieee.org
... of subframe 1 and the following subframe 2. (Note that the figure just shows the **frame** structure for a downlink or an uplink, excluding the **TDD** between the two ...

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Cited by 21 - Web Search - commsp.ee.ic.ac.uk - bell-labs.com - research.att.com - all 9 versions »

MAC protocol and traffic scheduling for wireless ATM networks
N Passas, L Merakos, D Skyrianoglou, F Bauchot, G ... - MOBILE NETWORKS APPL, 1998 - portal.acm.org
... time division duplex (**TDD**). ... needs, by allocating more or fewer time slots per time **frame**. ... may be a combination of For- ward Error Correction (**FEC**) or Automatic ...
Cited by 24 - Web Search - springerlink.com - kluweronline.com - ingentaconnect.com - all 9 versions »

FEC TDD frame Search

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FEC TDD frame 1970 - 2000 Search

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◉ Search only in Engineering, Computer Science, and Mathematics.
○ Search in all subject areas.

Scholar

Results **101** - **141** of **141** for **FEC TDD frame**. (**0.08** seconds)

A Novel Antenna Solution for Bluetooth Access Point
P Salonen, L Sydaenheimo, M Keskilammi, M ... - IEEE Wireless Communication and Networking Conference, ..., 2000 - ieeexplore.ieee.org
... element two-dimensional X-array, and its coordinate **frame**. ... type type load payload length slots **FEC** [bytes] [PSI ... Hence a time division duplex (**TDD**) scheme is ...
Cited by 5 - Web Search - ieeexplore.ieee.org

Speech Codecs for Personal Communications
AS Tale - IEEE Communications Magazine, 1993 - ieeexplore.ieee.org
... tion in the recovered speech, due to each hit in every **frame** being erroneously ... combined low bit rate codec and the forward error correction (**FEC**) codec yield ...
Web Search

Optimal DLC Protocol Configuration for Realistic Broadband Fixed Wireless Access Networks based on ...
S Mangold, I Forkel - The Second International Conference on ATM (ICATM99), Colmar ..., 1999 - ieeexplore.ieee.org
... c vision duplex (**TDD**) ... 3. By simulation of a typical Forward Error Correc- tion (**FEC**) Reed-Solomon Coding (RSC) as proposed to be used in Local Multipoint ...
Cited by 1 - Web Search - ieeexplore.ieee.org

Wireless ATM-based multicode CDMA transport architecture for MPEG-2 video transmission
PR Chang, CF Lin - Proceedings of the IEEE, 1999 - ieeexplore.ieee.org
... A combining of 6 BCH(15,7) is used to encode a fixed 38-bit slice header belonging to an I- **frame** with high **FEC** protection. Similarly ...
Cited by 15 - Web Search - ieeexplore.ieee.org - csa.com

Cordless Personal Communications
C Standards - IEEE Communications Magazine, 1992 - dectweb.com
... Bits per TDMA Timeslot (speech/data+embedded control) Timeslot duration (including guard time) TDMA **frame** period Modulation Technique ... 33/34 kb/s **TDD** ...
View as HTML - Web Search - dectweb.org

SVAN: A Mobile Multimedia Wireless NetwOrk
P MLSHRA, MANB SRIVASTAVA, JINA TROTTER - IEEE Personal Communications, 1996 - ieeexplore.ieee.org
... This article presents experimental data that explores the rela- tionship between performance and wireless link attributes such as the **frame** size used to ...
Web Search

General aspects of digital technologies for wireless local loops
IJC Syst - Int. J. Commun. Syst, 2000 - doi.wiley.com
... Forward error correction (**FEC**) codes and interleaving techniques (to ... In **TDD** operations, both the uplink and downlink of a ... The **frame** delay in PACS is about 5 ms ...
Cited by 1 - Web Search - doi.wiley.com

Low-tier wireless local loop radio systems* Part 1: Introduction
CC Yu, D Morton, C Stumpf, RG White, JE Wilkes, M ... - IEEE Communications Magazine, 1997 - ieeexplore.ieee.org
... uses time-division duplex (**TDD**) with both ... checksum, segmentation and reassembly • **Frame** switching service ... Forward error correction service (**FEC**): for further ...
Cited by 13 - Web Search - ieeexplore.ieee.org

Toward wireless multimedia communications. Current standards and future directions
C Sinner, R Sigle - INT J WIRELESS INF NETWORKS, 1998 - kluweronline.com
... access (TDMA) and time-division duplex (**TDD**) for transmission ... **frame** relay service

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with throughput of up to ... combination of forward error correction (**FEC**) and lim ...
Cited by 5 - Web Search - springerlink.com - csa.com

An Advanced TDMA Mobile Access System for UMTS
A LJRIE, M STREETON, C MOUROT - IEEE Personal Communications, 1995 - ieeexplore.ieee.org
... By increasing the number of slots used in a **frame**, source bit rates up to 64
kb/s ... the micro and pico cells can be used in both FDD, as shown, or **TDD**, with 2 x ...
Web Search

Wireless ATM MAC performance evaluation, a case study: HIPERLAN type 1 vs. modified MDR
J Mikkonen, L Nenonen - MOBILE NETWORKS APPL, 1998 - kluweronline.com
... ATM MAC MDR Multiservice Dynamic Reservation; based on dy- namic TDMA/**TDD**; design
by NEC [3,14] ... **Frame** length 2 ms 1 ms **FEC** – 31/26 CRC per packet 16 bits – ...
Cited by 5 - Web Search - portal.acm.org - springerlink.com - ingentaconnect.com - all 6 versions »

Satellite and personal communications
JV Evans - ... Communications Satellite Systems Conference, 15 th, San ..., 1994 - pdf.aiaa.org
... kHz UsersICarrier 1 Access Method FDMA TDMA **Frame** - Transmission Rate ... Duplexing **TDD**
TDD TDD FDD ... Spacing UsersICarrier Access Method Modulation **FEC** Coding Rate ...
Cited by 5 - Web Search - csa.com

Frequency sharing CDMA wireless LAN using uplink band of P-MP TDMA broadband wireless access
T Fujii, M NAKAGAWA - Vehicular Technology Conference, 1999. VTC 1999-Fall. IEEE ..., 1999 - ee.psu.ac.th
... access/time division duplex (CDMA/**TDD**) and consists ... BER = 10 −4 without forward
error correction (**FEC**). ... the assignment status information of the next **frame**. ...
Cited by 1 - Web Search - ieeexplore.ieee.org

The importance of propagation phenomena in personal communication networks
R Steele - Antennas and Propagation, 1991. ICAP 91., Seventh ..., 1991 - ieeexplore.ieee.org
... on one FSK carrier with a **frame** having the BS ... cordless telecommunications (DECT)
system [4]. Again **TDD** is used ... certainly require ARQ, as well as **FEC** coding and ...
Cited by 1 - Web Search - ieeexplore.ieee.org - eprints.ecs.soton.ac.uk - eprints.ecs.soton.ac.uk

Protocol-aided channel equalization in wireless ATM
JQ Bao, L Tong - IEEE J. Select. Areas Commun, 2000 - ieeexplore.ieee.org
... As a TDMA/**TDD** (time division duplexing) system, WATMnet ... the uplink M–B control sub-
frame slots are ... be obtained by using Forward Error Control (**FEC**) coding. ...
Cited by 6 - Web Search - ieeexplore.ieee.org

An uplink CDMA system architecture with diverse QoS guarantees for heterogeneous traffic
S Choi, KG Shin - IEEE/ACM Transactions on Networking, 1999 - portal.acm.org
... multiple access/time-division duplexing (TDMA/**TDD**) system like ... A forward error
correction (**FEC**) scheme is used ... on the uplink and downlink **frame** formats, which ...
Cited by 35 - Web Search - ieeexplore.ieee.org - eecs.umich.edu - mwnl.snu.ac.kr - all 7 versions »

SWAN: a mobile multimedia wireless network
P Agrawal, E Hyden, P Krzyzanowski, P Mishra, MB ... - IEEE Personal Communications, 1996 - mnlab.cs.depaul.edu
... multiple ATM cells on the same VC into a variable sized MAC **frame**, and share ... on the
basis of the specified rate, (ii) link level error control using **FEC** and/or ...
Cited by 105 - View as HTML - Web Search - ieeexplore.ieee.org

An adaptive data link layer protocol for wireless ATM networks
S Jagannath - 1997 - ittc.ku.edu
... for data applications, **FEC** operates in conjunction with ... within a dynamic TDMA/**TDD**
framework for ... rate acknowledgement and **frame** control overhead fields for each ...
Cited by 1 - View as HTML - Web Search - ittc.ku.edu - tisl.ku.edu - all 6 versions »

The 3GPP Proposal for IMT-2000
R ENVIRONMENTS - IEEE Communications Magazine, 1999 - ieeexplore.ieee.org
... these dif- ferent service needs are supported in a spectrum-efficient way by a combi
is a tin is of trcq mien cy— and time—division dci plex (I?DD and **TDD** ...
Web Search - comsoc.org

PETITIONER NOKIA
Ex.1012

[PS] Throughput Analysis for a Packet Radio Network Using Rate Adaptive OFDM Signaling
Z Ye, GJ Saulnier, KS Vastola, MJ Medley - IEEE International Conference on Communications, 1999 - networks.ecse.rpi.edu
... DATA: Actual TX DATA (Variable processing gain) **FEC**: Error Correcting Code for
Rate Indicator SYNC Figure 2. Signal **frame** format for the adaptive OFDM-SS ...
Cited by 5 - View as HTML - Web Search - ieeexplore.ieee.org

Performance Analysis of Multi-Antenna TD-CDMA Receivers with Estimation and Consideration of the ...
M Weckerle, A Papathanassiou - International Journal of Wireless Information Networks, 1999 - kluweronline.com
... is adopted by ETSI for the UTRA **TDD** mode and ... 1 . Burst and **frame** structures of
TD-CDMA ... impulse ® Iter [18] GMSK convolutional encoder (**FEC**) constraint length ...
Web Search - springerlink.com - ingentaconnect.com

[PS] Integrated dynamic channel assignment and power control in mobile wireless communication systems
A Lozano - PhD Theses, Stanford University, 1998 - wireless.stanford.edu
... branch antenna selection diversity, =10 dB, s =50 m and a 5-ms **frame** with 8 time
slots. . . . . s =50 m and a 5-ms **frame** with 8 time slots. . . . .
Cited by 2 - View as HTML - Web Search

Hicrh-sDeed comer access: a tutorial overview
K Czajkowski - ELECTRONICS & COMMUNICATION ENGINEERING JOURNAL, 1999 - ieeexplore.ieee.org
... FCC FDD **FEC** FEXT FFT FIR FSAN FITB FITC FTTCab ... **TDD** Tv UAWG UN1 UTP VDSL VoD xDSL ...
terminating equipment = long wave = main distribution **frame** = Motion Picture ...
Cited by 4 - Web Search - ieeexplore.ieee.org - csa.com

Wireless local loops
P Stavroulakis - International Journal of Communication Systems, 2000 - doi.wiley.com
... MAC protocol: RS-ISMA control signal definition 237 **frame** structure 236 ... Unit (FWNIU)
see Fixed Subscriber Unit Forward Error Correction (**FEC**) 13 Frequency ...
Cited by 9 - Web Search - portal.acm.org - Library Search

An overview of CDMA evolution toward wideband CDMA
R Prasad, T Ojanpera - IEEE Communications Surveys, 1998 - comsoc.org
... The selection of wideband CDMA was also backed by Asian and American GSM operators.
For **TDD** bands, a time division CDMA (TD-CDMA) concept was selected. ...
Cited by 76 - View as HTML - Web Search - it.e-technik.uni-ulm.de - cs.ualberta.ca - inf.unisinos.br - all 10 versions »

A unified wireless LAN architecture for real-time and non-real-time communication services
S Choi, KG Shin - IEEE/ACM Transactions on Networking, 2000 - ieeexplore.ieee.org
... a portion (usually a half) of each time **frame** is allocated ... way traffic (eg, web
browsing), D-**TDD** is a ... a hybrid of forward-error correction (**FEC**) and automatic ...
Cited by 26 - Web Search - eecs.umich.edu - cs.umn.edu - mwnl.snu.ac.kr - all 9 versions »

A PROPOSED ARCHITECTURE FOR A HIGH-DATA RATE MOBILE LMDS NETWORK
KR Reece, C Bostian, N Davis IV, T Pratt, J Reed, ... - 1999 - scholar.lib.vt.edu
... (ie **frame** synchronization) and **FEC** (ie word synchronization). ... need to distinguish
each **frame**. The **FEC** systems using block or convolutional coding requires a ...
View as HTML - Web Search - scholar.lib.vt.edu

[BOOK] Essential Guide to Wireless Communications Applications: From Cellular Systems to WAP and M-Commerce
A Dornan - 2000 - print.google.com
... 43 Cells 45 Page 8. Handoff 47 Effect of Frequency 49 Duplexing 49 FDD 49 **TDD** 50
Microcells 46 Contents vii Multiplexing 50 Frequency 51 Space 54 Time 54 ...
Cited by 30 - Web Search - Library Search

Handoff support for mobility with IP over Bluetooth
S Baatz, M Frank, R Goepffarth, D Kassatkine, P ... - CONF LOCAL COMPUT NETWORKS. pp. 143-154. 2000, 2000 - cchen2.et.ntust.edu.tw
... fast ARQ (Automatic Repeat Request), CRC (Cyclic Redundancy Check) and **FEC** (Forward
Error ... For ACL links, Time Division Duplex (**TDD**) is used to control access ...
Cited by 25 - View as HTML - Web Search - cs.bonn.edu - informatik.uni-bonn.de - goepffarth.de - all 10 versions »

PETITIONER NOKIA
Ex.1012

Effects of Transport Protocols on Media Synchronization Quality
Y Ishibashi, S Tasaka, T Inoue - Global Telecommunications Conference, 1998. GLOBECOM 98. The ..., 1998 - ieeexplore.ieee.org
... both retransmission—ba.sed and forward error correc- tion (**FEC**)—hased error control for ... Note that a video **frame** in MPEG is either aim Intra—coded (I). P ...
Cited by 1 - Web Search - ieeexplore.ieee.org

Doppler based adaptive control for LEO satellite communications systems
Z Ye, GJ Saulnier, A Seyedi, MJ Medley - AIAA Space Technology Conference & Exposition, Albuquerque, ..., 1999 - pdf.aiaa.org

... the satellite in the earth centered inertial (ECI) **frame**, angular velocity ... These include adaptive modulation, adaptive **FEC** coding and spread spectrum systems ...
Web Search - pdf.aiaa.org - csa.com

Satellite systems for personal communications
JV Evans - IEEE Antennas and Propagation Magazine, 1997 - ieeexplore.ieee.org
... Minimum channel spacing (lcHz) 50 20 10 5 Users/carrier 1 1 1 1 Access method FDMA FDMA FDMA FDMA Modulation Companded FM O-QPSK O-QPSK O-QPSK **FEC** coding rate N ...
Cited by 30 - Web Search - ieeexplore.ieee.org - cnr.kaist.ac.kr - csa.com

Wireless data communications
K Pahlavan, AH Levesque - Proceedings of the IEEE, 1994 - ieeexplore.ieee.org
... Channel Coding: **Frame** Duration (ms): ... FDD **TDD** 1250 1728 BPSW GFSK QPSK 200 mW 250 mW1 10 mW Dynamic YeS No YeS No QCELP ADPCM 1-8 (var.) 32 12 ...
Cited by 79 - Web Search - ieeexplore.ieee.org

A Unified Wireless LAN Architecture for Real-Time and Non-Real-Time Communication Services
I TABLE - IEEE/ACM TRANSACTIONS ON NETWORKING, 2000 - csl.ee.iastate.edu
... a portion (usually a half) of each time **frame** is allocated ... way traffic (eg, web browsing), D-**TDD** is a ... a hybrid of forward-error correction (**FEC**) and automatic ...
View as HTML - Web Search

Implementation aspects of turbo-decoders for future radio applications
F Berens, A Worm, H Michel, N Wehn - IEEE VEH TECHNOL CONF, 1999 - ieeexplore.ieee.org
... Exploration The forward error correction control (**FEC**) has to ... Turbo- Codes in the UTRA-**TDD**-Mode. ... Turbo-Code Decoders Applied to Short **Frame** Transmission Systems ...
Cited by 11 - Web Search - eit.uni-kl.de - ieeexplore.ieee.org - csa.com

[BOOK] Wireless technician's handbook
A Miceli - 2000 - print.google.com
... Introduction 9.2 History of WCDMA 9.3 Features and Benefits of WCDMA 9.4 **TDD** and FDD Modes 9.5 Introduction to Nomenclature 9.6 Slot and **Frame** Structure 9.7 ...
Cited by 4 - Web Search - Library Search

[BOOK] Wireless Communications
SG Glisic, S Gilsic, PA Leppanen - 1997 - print.google.com
... In Time Division Multiple Access (TDMA), within a given time **frame** a particular user is ... merged into three CDMAIFDD (Core A, B and C) and into one **TDD** proposal. ...
Cited by 21 - Web Search - Library Search

mobile. ecs. soton. ac. uk.).
AW Tranceivers, L Hanzo, CH Wong, MS Yee - IEEE Transactions on Vehicular Technology, 1993 - doi.wiley.com
... 938-942, IEEE, 1 4 September 1997. [42] T. Ue, S. Sampei, and N. Morinaga, "Symbol rate controlled adaptive modulation/TDMA/**TDD** for wireless personal ...
Web Search

[BOOK] Any Time, Anywhere Computing
A Helal, B Haskell, JL Carter, R Brice, D Woelk, M ... - 1999 - print.google.com
Page 1. ANY TIME, ANYWHERE COMPUTING Mobile Computing Concepts and Technology ..
Page 2. The Kiuwer International Series In Engineering and Computer Science ...
Cited by 14 - Web Search

PETITIONER NOKIA
Ex.1012

Distributed resource allocation for DS-CDMA-based multimedia ad hoc wireless LAN's
S Lal, ES Sousa - IEEE J. Select Areas Commun, 1999 - ieeexplore.ieee.org
... is assumed that some form of forward error correction (**FEC**) is used ... forms of duplexing, frequency division duplexing (FDD) and time division duplexing (**TDD**). ...
Cited by 23 - Web Search - ceid.upatras.gr - comsoc.org - ieeexplore.ieee.org

Adaptive Antenna Arrays for Satellite Personal Communication Systems
KJ Lian, T Pratt, C Bostian, B Woerner, V ... - 1997 - wwwgssr.uah.es
... The IRIDIUM system is fully digital and utilizes high-quality vocoded messages at 4.8 kbps with Forward Error Correction (**FEC**) coding. ...
View as HTML - Web Search - scholar.lib.vt.edu - scholar.lib.vt.edu - antennas.ee.duth.gr - all 5 versions »

FEC TDD frame Search

Google Home - About Google - About Google Scholar

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	TDD same uplink same modulation same FEC	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 15:17
L2	131	TDD same uplink same modulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 15:18
L3	0	TDD same frmae same uplink same modulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 15:19
L4	81	TDD same frame same uplink same modulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 15:19
S1	2	"6785278".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 07:40
S2	2	"6859655".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 07:44
S3	2	"6891810".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 07:44
S4	9	("5638371" | "5684791" | "5694424" | "5809086" | "5991292" | "6188873" | "6470057" | "6549759" | "6748021").PN. OR ("6891810").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:30
S5	1	"6804527".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:36

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S6	1	"6128331".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:37
S7	1	"5950124".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:38
S8	1	"5923651".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:38
S9	34	("3949404" | "4495619" | "5130983" | "5297144" | "5420851" | "5444698" | "5511082" | "5517503" | "5615212" | "5638371" | "5638374" | "5663990" | "5675573" | "5751708" | "5768254" | "5828695" | "5859619" | "5890055" | "5909469" | "6006069" | "6016311" | "6016313" | "6038455" | "6049566" | "6094421" | "6112080" | "6170061" | "6363241" | "6434189" | "6470005").PN. OR ("6549759"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:58
S10	11	(("3949404" | "4495619" | "5130983" | "5297144" | "5420851" | "5444698" | "5511082" | "5517503" | "5615212" | "5638371" | "5638374" | "5663990" | "5675573" | "5751708" | "5768254" | "5828695" | "5859619" | "5890055" | "5909469" | "6006069" | "6016311" | "6016313" | "6038455" | "6049566" | "6094421" | "6112080" | "6170061" | "6363241" | "6434189" | "6470005").PN. OR ("6549759"). URPN.) and TDD	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/05 08:58

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	1	(wireless and access and network and (base adj station) and bidirectional and time and division and duplex and transceiver and transmit and path and circuitry and beam and signal and broadcast and downlink).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 16:19

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Inventor Name Search Result

Your Search was:

Last Name = STRUHSAKER
First Name = PAUL

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60263097	Not Issued	159	01/19/2001	Redundant telecommunication system using memory equalization apparatus and method of operation	STRUHSAKER, PAUL F
60263101	Not Issued	159	01/19/2001	System for coordination of TDD transmission bursts within and between cells in a wireless access system and method of operation	STRUHSAKER, PAUL F
09520156	6668174	150	03/07/2000	METHOD AND SYSTEM FOR A MICRO-CHANNEL BANK FOR PROVIDING VOICE, DATA AND MUTIMEDIA SERVICES IN A WIRELESS LOCAL LOOP SYSTEM	STRUHSAKER, PAUL F.
09579349	6381211	150	05/25/2000	PROCESSING DATA TRANSMITTED AND RECEIVED OVER A WIRELESS LINK CONNECTING A CENTRAL TERMINAL AND A SUBSCRIBER TERMINAL OF A WIRELESS TELECOMMUNICATIONS SYSTEM	STRUHSAKER, PAUL F.
09641289	6434185	150	08/17/2000	CORRELATION SYSTEM FOR USE IN WIRELESS DIRECT SEQUENCE SPREAD SPECTRUM SYSTEMS	STRUHSAKER, PAUL F.
09838810	Not Issued	80	04/20/2001	Wireless communication system using block filtering and fast equalization-demodulation and method of operation	STRUHSAKER, PAUL F.
09838910	6564051	150	04/20/2001	SYSTEM AND METHOD FOR INTERFACE BETWEEN A SUBSCRIBER MODEM AND SUBSCRIBER PREMISES INTERFACES	STRUHSAKER, PAUL F.
09838924	Not Issued	71	04/20/2001	Apparatus for establishing a priority call in a fixed wireless access communication system	STRUHSAKER, PAUL F.
09839075	6859655	150	04/20/2001	TDD FDD AIR INTERFACE	STRUHSAKER, PAUL F.
09839259	Not Issued	71	04/20/2001	Redundant telecommunication system using memory equalization apparatus and method of operation	STRUHSAKER, PAUL F.
09839456	6891810	150	04/20/2001	WIRELESS ACCESS SYSTEM AND ASSOCIATED METHOD USING	STRUHSAKER, PAUL F.

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				MULTIPLE MODULATION FORMATS IN TDD FRAMES ACCORDING TO SUBSCRIBER SERVICE TYPE	
09839457	Not Issued	94	04/20/2001	WIRELESS ACCESS SYSTEM FOR ALLOCATING AND SYNCHRONIZING UPLINK AND DOWNLINK OF TDD FRAMES AND METHOD OF OPERATION	STRUHSAKER, PAUL F.
09839458	Not Issued	71	04/20/2001	Wireless access system using multiple modulation formats in TDD frames and method of operation	STRUHSAKER, PAUL F.
09839499	Not Issued	71	04/20/2001	Apparatus, and an associated method, for providing WLAN service in a fixed wireless access communication system	STRUHSAKER, PAUL F.
09839509	Not Issued	120	04/20/2001	Backplane architecture for use in wireless and wireline access systems	STRUHSAKER, PAUL F.
09839512	6804527	150	04/20/2001	SYSTEM FOR COORDINATION OF TDD TRANSMISSION BURSTS WITHIN AND BETWEEN CELLS IN A WIRELESS ACCESS SYSTEM AND METHOD OF OPERATION	STRUHSAKER, PAUL F.
09839513	6925516	150	04/20/2001	SYSTEM AND METHOD FOR PROVIDING AN IMPROVED COMMON CONTROL BUS FOR USE IN ON-LINE INSERTION OF LINE REPLACEABLE UNITS IN WIRELESS AND WIRELINE ACCESS SYSTEMS	STRUHSAKER, PAUL F.
09839514	Not Issued	41	04/20/2001	System and method for on-line insertion of line replaceable units in wireless and wireline access systems	STRUHSAKER, PAUL F.
09839719	6947477	150	04/20/2001	APPARATUS AND METHOD FOR CREATING SIGNAL AND PROFILES AT A RECEIVING STATION	STRUHSAKER, PAUL F.
09839726	Not Issued	41	04/20/2001	Apparatus and associated method for operating upon data signals received at a receiving station of a fixed wireless access communication system	STRUHSAKER, PAUL F.
09839727	Not Issued	93	04/20/2001	APPARATUS FOR REALLOCATING COMMUNICATION RESOURCES TO ESTABLISH A PRIORITY CALL IN A FIXED WIRELESS ACCESS COMMUNICATION SYSTEM	STRUHSAKER, PAUL F.
09839729	Not Issued	41	04/20/2001	Apparatus and method for operating a subscriber interface in a fixed wireless system	STRUHSAKER, PAUL F.
09839734	Not Issued	94	04/20/2001	METHOD FOR ESTABLISHING A PRIORITY CALL IN A FIXED WIRELESS ACCESS COMMUNICATION SYSTEM	STRUHSAKER, PAUL F.
09948059	Not Issued	30	09/05/2001	Wireless access system using selectively adaptable beam forming in TDD frames	STRUHSAKER, PAUL F.

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				and method of operation	
10042705	Not Issued	71	11/15/2000	Subscriber integrated access device for use in wireless and wireline access systems	STRUHSAKER, PAUL F.
10722681	Not Issued	30	11/25/2003	Dual platform communication controller, method of controlling a dual platform communication and wireless communication system employing the same	STRUHSAKER, PAUL F.
60262698	Not Issued	159	01/19/2001	Apparatus and method for operating a subscriber interface in a fixed wireless system	STRUHSAKER, PAUL F.
60262708	Not Issued	159	01/19/2001	Apparatus, and an associated method, for providing WLAN service in a fixed wireless access communication system	STRUHSAKER, PAUL F.
60262712	Not Issued	159	01/19/2001	Wireless communication system using block filtering and fast equalization-demodulation and method of operation	STRUHSAKER, PAUL F.
60262824	Not Issued	159	01/19/2001	System and method for on-line insertion of line replaceable units in wireless and wireline access systems	STRUHSAKER, PAUL F.
60262825	Not Issued	159	01/19/2001	Apparatus and associated method for operating upon data signals received at a receiving station of a fixed wireless access communication system	STRUHSAKER, PAUL F.
60262826	Not Issued	159	01/19/2001	System and method for interface between a subscriber modem and subscriber premises interface	STRUHSAKER, PAUL F.
60262827	Not Issued	159	01/19/2001	Apparatus and method for creating signal and profiles at a receiving station	STRUHSAKER, PAUL F.
60262951	Not Issued	159	01/19/2001	Backplane architecture for use in wireless and wireline access systems	STRUHSAKER, PAUL F.
60262955	Not Issued	159	01/19/2001	TDD FDD air interface	STRUHSAKER, PAUL F.
60270378	Not Issued	159	02/21/2001	Apparatus for establishing a priority call in a fixed wireless access communication system	STRUHSAKER, PAUL F.
60270385	Not Issued	159	02/21/2001	Apparatus for reallocating communication resources to establish a priority call in a fixed wireless access communication system	STRUHSAKER, PAUL F.
60270430	Not Issued	159	02/21/2001	Method for establishing a priority call in a fixed wireless access communication system	STRUHSAKER, PAUL F.
60273579	Not Issued	159	03/05/2001	Wireless access system for allocating and synchronizing uplink and downlink of TDD frames and method of operation	STRUHSAKER, PAUL F.
60273689	Not Issued	159	03/05/2001	Wireless access system using multiple modulation formats in TDD frames and method of operation	STRUHSAKER, PAUL F.
60273757	Not	159	03/05/2001	Wireless access system and associated	PAUL F.

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	Issued			method using multiple modulation formats in TDD frames according to subscriber service type	
60434094	Not Issued	159	12/17/2002	Mechanism for bluetooth and IEEE 802.11 coexistence	STRUHSAKER, PAUL F.
08335328	6128331	150	11/07/1994	CORRELATION SYSTEM FOR USE IN WIRELESS DIRECT SEQUENCE SPREAD SPECTRUM SYSTEMS	STRUHSAKER, PAUL F.
08496768	Not Issued	161	06/29/1995	DIRECT SEQUENCE SPREAD SPECTRUM COMMUNICATION SYSTEM WITH DYNAMICALLY OPTIMIZED PERFORMANCE CAPABILITIES	STRUHSAKER, PAUL F.
08523942	Not Issued	161	09/06/1995	CELLULAR COMMUNICATION SYSTEM WITH DYNAMICALLY MODIFIED DATA TRANSMISSION PARAMETERS	STRUHSAKER, PAUL F.
08566502	5950124	150	12/04/1995	CELLULAR COMMUNICATION SYTEM WITH DYNAMICALLY MODIFIED DATA TRANSMISSION PARAMETERS	STRUHSAKER, PAUL F.
08768814	5966411	150	12/18/1996	MULTIPATH EQUALIZATION USING TAPS DERIVED FROM A PARALLEL CORRELATOR	STRUHSAKER, PAUL F.
08780055	5923651	150	12/23/1996	INCREASING DATA THROUGHPUT IN A WIRELESS TELECOMMUNICATIONS ENVIRONMENT	STRUHSAKER, PAUL F.
08866342	6052408	150	05/30/1997	CELLULAR COMMUNICATION SYSTEM WITH DYNAMICALLY MODIFIED DATA TRANSMISSION PARAMETERS	STRUHSAKER, PAUL F.
08978970	6222819	150	11/26/1997	PROCESSING DATA TRANSMITTED AND RECEIVED OVER A WIRELESS LINK CONNECTING A CENTRAL TERMINAL AND A SUBSCRIBER TERMINAL OF A WIRELESS TELECOMMUNICATIONS SYSTEM	STRUHSAKER, PAUL F.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/948,059	09/05/2001	Paul F. Struhsaker	WEST14-00103	5591

7590 01/10/2006

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EXAMINER	
AHMED, SALMAN	

ART UNIT	PAPER NUMBER
2666	

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/948,059	STRUHSAKER, PAUL F.	
	Examiner	Art Unit	
	Salman Ahmed	2666	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *05 September 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-27* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-7,10-16 and 19-25* is/are rejected.

7)☒ Claim(s) *8,9,17,18,26,27* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *1/10/02,9/5/01* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

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