



كلية الهندسة الإلكترونية

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اسم الباحث:

تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**A new tapering window is proposed for the uniform concentric circular arrays (UCCA) in order to reduce the sidelobe level at lower cost of wider beams and more practical feasibility and stability**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, we propose an efficient receiver scheme to mitigate the effects of multiple access interference (MAI) and intersymbol interference (ISI) in downlink CDMA systems.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In multi-channel imaging, when multiple limited resolution sensors are used, it is required to extract a high resolution (HR) image from the available low resolution (LR) observations. In this paper, an entropic approach to HR reconstruction of images is developed.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper proposes the application of the Wiener filter in an adaptive manner in speech enhancement. The proposed adaptive Wiener filter depends on the adaptation of the filter transfer function from sample to sample based on the speech signal statistics (mean and variance).**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper presents a block based digital image watermarking algorithm that is dependent on the mathematical technique of singular value decomposition (SVD). Traditional SVD watermarking already exists for watermark embedding on the image as a whole**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper proposes the application of the Wiener filter in an adaptive manner in speech enhancement. The proposed adaptive Wiener filter depends on the adaptation of the filter transfer function from sample to sample based on the speech signal statistics (mean and variance).**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper presents some new techniques for high resolution (HR) image processing and compares between them. The paper focuses on two main topics, image interpolation and image superresolution. By image interpolation, we mean extracting an HR image from a single degraded low resolution (LR) image**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, we propose a low complexity receiver structure for Single-input Multiple-output (SIMO) downlink cyclic prefix CDMA (CP-CDMA) systems. It employs an interference cancellation scheme to suppress the interference caused by the multipath fading channel.**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Wideband code division multiple access (WCDMA) is an interference-limited system. When the system operates at nearly full capacity, admitting another user may affect the stability of the system.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Current and next generation wireless networks including 3rd generation (3G) and beyond are expected to provide a wide range of multimedia services with different QoS constraints. Call admission control (CAC) and resource reservation (RR) for mobile communication are of the most important issues that guarantee system efficiency and QoS required for different services in a very scarce resource as the radio spectrum**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper presents a block based digital image watermarking scheme that is independent on the mathematical technique of singular value decomposition (SVD).**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**A signal transmitted through a wireless channel may be severely distorted due to intersymbol interference (ISI) and multiple access interference (MAI). In this paper, we propose an efficient CDMA receiver based on a frequency domain equalization with a regularized zero forcing equalizer and unit clipper decision with parallel interference cancellation (FDE-RZF-CPIC) to combat both ISI and MAI**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, a novel beamforming technique is proposed for the high altitude platforms (HAPs) mobile communications to generate adaptive radio coverage worm-shaped cells to cover the main highways. This technique is based on pattern summation of individual low-sidelobe narrow beams—which constitute the desired cell pattern—weighted by an adaptive amplitude correcting function**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**A novel cellular structure is proposed for the ambitious stratospheric platform mobile communications. The innovated structure adopts a multibeam scanning antenna array to create ring shaped cells instead of the classical honey cells.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**A signal transmitted through a wireless channel may be severely distorted by intersymbol interference (ISI) and multiple access interference (MAI). In this paper, we propose an efficient CDMA receiver based on frequency domain equalization (FDE) with a regularized zero forcing (RZF) equalizer and parallel interference cancellation with a unit clipper decision function (CPIC) to combat both the ISI and the MAI**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, a new tapered beamforming function for sidelobe reduction in the uniform concentric circular arrays (UCCA) is proposed**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Cellular communications using high altitude platforms (HAPs) will predominate the existing conventional terrestrial or satellite systems but requires some optimization especially in the cellular radio coverage design**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper proposes a novel beamforming technique for the high altitude platforms (HAPs) mobile communications to generate adaptive radio coverage worm-shaped cells covering the main highways which carry a heavy traffic of mobile users.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Concentric circular antenna array (CCAA) has interesting features over other array configurations. A uniform arrangement of elements is assumed where the inter-element spacing is kept almost half of the wavelength and the array parameters such as the steering matrix and gain are determined**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Cellular communications using high altitude platforms will predominate the existing conventional terrestrial or satellite systems**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In wireless communications utilizing high altitude platforms, the cellular coverage depends on the sidelobe level of the used antennas which affects the carrier-to-interference ratio (CIR).**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Cellular communications using high altitude platforms will predominate the existing conventional terrestrial or satellite cellular systems but requires some optimization especially in the radio, coverage cellular design**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, a new tapered beamforming function for side lobe reduction in the uniform concentric circular arrays (UCCA) is proposed. This technique is based on tapering the current amplitudes of the rings in the array, where all elements in an individual ring are weighted in amplitude by the same value and the weight values of different rings are determined by a function that has a normalized gaussian probability density function variation**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Cellular communications using high altitude platforms (HAPs) will predominate the existing conventional terrestrial or satellite systems but requires some optimization especially in the cellular radio coverage design**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Concentric circular antenna array (CCAA) is synthesized to generate pencil beam with minimum side lobe level (SLL). The comprehensive learning particle swarm optimizer (CLPSO) is used for synthesizing a ten-ring CCAA with central element**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, a new tapered beamforming function for sidelobe reduction in the uniform concentric circular arrays (UCCA) is proposed. This technique is based on tapering the current amplitudes of the rings in the array, where all elements in an individual ring are weighted in amplitude by the same value and the weight values of different rings are determined by a function that has a normalized-gaussian probability density function variation**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, a new design approach for sidelobe reduction in the uniform concentric circular arrays (UCCA) is proposed. This technique is based on tapering the current amplitudes of the rings in the array by the coefficients of an even predesigned Dolph-Chebyshev linear one-dimensional array which has a number of elements that equals twice the number of rings and a prewarped sidelobe level obtained from prewarping curves.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This article presents a new time domain equaliser (TEQ), which can be used in discrete multi-tone (DMT) systems to maximise the bit rate. The proposed TEQ is tested in the fast Fourier transform based discrete multi-tone (FFT-DMT) system, and in a proposed discrete cosine transform based discrete multi-tone (DCT-DMT) system.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**The single carrier-frequency division multiple access (SC-FDMA) system is a new system that was adopted in the standardization of the upcoming 3GPP long-term evolution (LTE).**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Single-carrier frequency division multiple access (SC-FDMA) is a promising alternative to orthogonal frequency division multiple access (OFDMA) for uplink wireless communications in frequency-selective fading environments**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Physical layer security has recently attracted considerable attention in the context of information-theoretic point of view. In this paper, we investigate relay selection schemes for security-constrained half-duplex cooperative wireless networks with multiple eavesdroppers, which have the ability to cooperate to overhear the source transmission**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper investigates the Range-Doppler Algorithm based on the Fractional Fourier Transform (RDAFrFT) to obtain High-Resolution (HR) images for targets in Synthetic Aperture Radar (SAR) imaging**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Multi-User Orthogonal Frequency Division Multiplexing (MU-OFDM) is an efficient technique for achieving high downlink capacity in high-speed communication systems**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, an enhanced greedy bit and power allocation algorithms for orthogonal frequency division multiplexing (OFDM) communication systems are introduced**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Multipath fading is one of the main challenges in transmission over wireless broadband relay channels due to frequency selectivity, which may deteriorate the received signal. Exploiting the extra source of multipath diversity, aside from cooperative (user) diversity, is important when coping with these wireless channel limitations**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**A new approach for peak-to-average power ratio (PAPR) reduction in orthogonal frequency division multiplexing (OFDM) systems was proposed. This approach is based on assigning powers to the different subcarriers of OFDM using an unequal power distribution strategy.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Call admission control (CAC) and resource reservation (RR) for mobile communication are two important factors that guarantee system efficiency and quality of service (QoS) required for different services in a very scarce resource as the radio spectrum**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, we propose an efficient frequency domain equalization scheme for Multiple Input Multiple Output (MIMO) Single-Carrier Frequency- Division Multiple Access (SC-FDMA) systems**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Due to their noise amplification, conventional Zero-Forcing (ZF) equalizers are not suited for interference-limited environments such as the Single-Carrier Frequency Division Multiple Access (SC-FDMA) in the presence of Carrier-Frequency Offsets (CFOs) [1].**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This paper presents a new Range-Doppler Algorithm based on Fractional Fourier Transform (RDA-FrFT) to obtain High-Resolution (HR) images for targets in radar imaging. The performance of the proposed RDA-FrFT is compared with the classical RDA algorithm, which is based on the Fast Fourier Transform (FFT).**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Cooperative diversity using distributed space time codes has been recently proposed to form virtual antennas in order to achieve diversity gain. In this paper, we consider a multi-relay network operating in amplify-and forward (AAF) mode**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Direct-sequence code division multiple access (DS/CDMA) systems transmitting over multipath channels suffer from intersymbol interference (ISI) and multiple access interference (MAI). Recently, DS/CDMA with frequency domain equalization (FDE) has attracted much attention for its ability to obtain an excellent performance even in strong frequency selective fading channels.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, the problem of speech deconvolution is solved. This problem is encountered in limited bandwidth speech communication systems such as telephone systems**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**A hybrid receiver scheme for downlink code division multiple access (CDMA) systems over frequency selective channels is proposed. The proposed receiver combines a linear regularised zero forcing (RZF) equaliser and a parallel interference cancellation scheme with a tanh decision function (TPIC). It is called the RZF-TPIC receiver.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, frequency domain pre-equalization (Pre-FDE) is developed for broadband cyclic prefix-code division multiple access (CP-CDMA) as a single carrier transmission scheme, and for multi carrier-CDMA (MCCDMA) and orthogonal frequency division multiplexing (OFDM) as multi carrier transmission schemes**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**This article presents a new time domain equaliser (TEQ), which can be used in discrete multi-tone (DMT) systems to maximise the bit rate. The proposed TEQ is tested in the fast Fourier transform based discrete multi-tone (FFT-DMT) system, and in a proposed discrete cosine transform based discrete multi-tone (DCT-DMT) system.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Single-carrier frequency division multiple access (SC-FDMA) is considered as a promising technique that is adopted in the uplink for the upcoming 3GPP long term evolution (LTE).**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Similar to the orthogonal frequency division multiple access (OFDMA) system, the single-carrier frequency division multiple access (SC-FDMA) system also suffers from frequency mismatches between the transmitter and the receiver**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, we study the performance of the continuous phase modulation (CPM)-based orthogonal frequency division multiplexing (CPM-OFDM) system. Also, we propose a CPM-based single-carrier frequency domain equalization (CPM-SC-FDE) structure for broadband wireless communication systems**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**The Single-Carrier Frequency Division Multiple Access (SC-FDMA) system is a well-known system, which has recently become a preferred choice for uplink channels**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Wideband code division multiple access (WCDMA) systems are interference-limited.  
When a WCDMA system operates at nearly full capacity, admitting a new user may  
affect the stability of the system**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, a companding technique is proposed to effectively reduce the peak-to-average power ratio (PAPR) in single-carrier frequency division multiple access (SC-FDMA) systems.**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Single-carrier frequency division multiple access (SC-FDMA) has been adopted as a possible air interface for future wireless networks. It combines most of the advantages of orthogonal frequency division multiple access (OFDMA) and the low peak-to-average-power ratio (PAPR) of single-carrier transmission**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**The selective mapping (SLM) scheme is one of the most popular peak-to average power ratio (PAPR) reduction techniques proposed for multi-input multi-output orthogonal frequency division multiplexing (MIMO-OFDM) systems**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Regularized restoration is one of the powerful image restoration techniques because it preserves image details with a high degree of fidelity in the restored image**



تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**Recently, the Single-Carrier Frequency Division Multiple Access (SC-FDMA) system has attracted the attention as an efficient alternative to the Orthogonal Division Multiple Access (OFDMA) system in the uplink communications**





تاريخ اعتماد تسجيل البحث: 2013/01/17

نوع البحث: أكاديمي

عنوان البحث:

طريقة البحث:

**In this paper, we propose a chaotic interleaving scheme for the continuous phase modulation based single-carrier frequency-domain equalization (CPM-SCFDE) system. Chaotic interleaving is used in this scheme to generate permuted versions from the sample sequences to be transmitted, with low correlation among their samples, and hence a better bit error rate (BER) performance can be obtained**