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ON THE CONTRIBUTION OF THE PERCEPTUAL DECOMPOSITION AND SPATIAL POOLING TO THE PERFORMANCES OF FIDELITY METRICS ([Abstract](#))

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ENHANCED TIME RESOLUTION IN BAND LIMITED COMMUNICATION SYSTEMS ([Abstract](#))

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A COMPARATIVE STUDY OF DATA FUSION STRATEGIES IN FACE VERIFICATION ([Abstract](#))

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BAYESIAN ADAPTIVE FILTERING: PRINCIPLES AND PRACTICAL APPROACHES ([Abstract](#))

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DATA EMBEDDING IN SPEECH SIGNALS USING PERCEPTUAL MASKING ([Abstract](#))

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IF ESTIMATION OF MULTICOMPONENT CHIRP SIGNAL IN IMPULSIVE ALPHA-STABLE NOISE ENVIRONMENT USING PARAMETRIC AND NON-PARAMETRIC APPROACHES ([Abstract](#))

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DEVELOPMENT OF 4 X 4 MIMO-OFDM SYSTEM AND TEST MEASUREMENT ([Abstract](#))

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AN EXACT ANALYSIS OF THE LMS ALGORITHM WITH TONAL REFERENCE SIGNALS IN THE PRESENCE OF FREQUENCY MISMATCH ([Abstract](#))

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A FAST BLIND MULTIPLE ACCESS INTERFERENCE REDUCTION IN DS/CDMA SYSTEMS BY
ADAPTIVE PROJECTED SUBGRADIENT METHOD ([Abstract](#))

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ENABLING SMT FOR REAL-TIME EMBEDDED SYSTEMS ([Abstract](#))

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NOISE REDUCTION METHOD FOR WIDEBAND SPEECH CODING ([Abstract](#))

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NON DESTRUCTIVE TESTING OF MATERIALS BY BICEPSTRUM ANALYSIS OF ULTRASONIC SIGNALS ([Abstract](#))

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PROTOTYPING EMBEDDED DSP SYSTEMS – FROM SPECIFICATION TO IMPLEMENTATION
([Abstract](#))

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A ROBUST MAXIMUM LIKELIHOOD MULTIUSER DETECTOR IN THE PRESENCE OF SIGNATURE UNCERTAINTIES ([Abstract](#))

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PROSODY MODIFICATION AND FUJISAKI'S MODEL: PRESERVING NATURAL SOUNDNESS
([Abstract](#))



MULTIPLE DESCRIPTION IMAGE CODER USING CORRELATING TRANSFORMS ([Abstract](#))

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SEMI-BLIND CHANNEL ESTIMATION FOR OFDM SYSTEMS VIA AN EM-BLOCK ALGORITHM
([Abstract](#))

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SPEECH ENHANCEMENT USING A-PRIORI INFORMATION WITH CLASSIFIED NOISE CODEBOOKS
([Abstract](#))



ROBUST SPECTRUM QUANTIZATION FOR LP PARAMETER ENHANCEMENT ([Abstract](#))

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AN EFFICIENT TWO-STAGE IMPLEMENTATION OF HARMONIC MATCHING PURSUIT ([Abstract](#))

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PENALTY FUNCTION BASED JOINT DIAGONALIZATION APPROACH FOR CONVOLUTIVE
CONSTRAINED BSS OF NONSTATIONARY SIGNALS ([Abstract](#))

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COLOUR-DEPENDENT LINEAR VECTOR IMAGE FILTERING ([Abstract](#))

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ROBUST AUDIO HASHING FOR CONTENT IDENTIFICATION ([Abstract](#))



PERSON AUTHENTICATION BASED ON HAND SHAPE ([Abstract](#))



ROBUST VIDEO HASH EXTRACTION ([Abstract](#))

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NEW DIRECT ADAPTIVE ALGORITHM FOR MULTICHANNEL ACTIVE NOISECONTROL AND SOUND REPRODUCTION ([Abstract](#))



COMPUTATIONALLY EFFICIENT SUBSPACE-BASED METHOD FOR DIRECTION ESTIMATION AND TRACKING IN ARRAY PROCESSING ([Abstract](#))

Ignacio Santamaria

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BLIND RESTORATION OF BINARY SIGNALS USING A LINE SPECTRUM FITTING APPROACH
([Abstract](#))



BLIND EQUALIZATION OF MULTILEVEL SIGNALS USING SUPPORT VECTOR MACHINES ([Abstract](#))

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NEW RESULTS AND OPEN PROBLEMS IN REAL-NUMBER CODES ([Abstract](#))

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ADAPTIVE ALGORITHM FOR FAST MOTION ESTIMATION IN H.264/MPEG-4 AVC ([Abstract](#))

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A NEW TRUST REGION FISHER SCORING OPTIMIZATION FOR IMAGE AND BLUR IDENTIFICATION
([Abstract](#))

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CLASSIFICATION AND INDEXING OF PAINTINGS BASED ON ART MOVEMENTS ([Abstract](#))

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BALANCED CAPACITY OF WIRELINE MULTIACCESS CHANNELS ([Abstract](#))

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FAST MODELING OF ACOUSTIC REFLECTIONS AND DIFFRACTION IN COMPLEX ENVIRONMENTS USING VISIBILITY DIAGRAMS ([Abstract](#))



WAVELET-BASED VIDEO CODING: OPTIMAL USE OF MOTION INFORMATION FOR THE DECODING OF SPATIALLY SCALED VIDEO SEQUENCES ([Abstract](#))

Hiroshi Saruwatari

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AUDIBLE (NORMAL) SPEECH AND INAUDIBLE MURMUR RECOGNITION USING NAM MICROPHONE
([Abstract](#))



ON-LINE ADAPTIVE ALGORITHM TO ACOUSTIC FLUCTUATION FOR INVERSE FILTER RELAXATION
IN SOUND REPRODUCTION SYSTEM ([Abstract](#))



EVALUATION OF BLIND SEPARATION AND DECONVOLUTION FOR BINAURAL-SOUND MIXTURES
USING SIMO-MODEL-BASED ICA ([Abstract](#))

Guillaume Sauzon

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DESIGN FLOW IMPROVEMENTS FOR EMBEDDED WIRELESS RECEIVERS ([Abstract](#))

Mohammad Hassan Savoji

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AUTOMATIC AND ACCUARTE PITCH MARKING OF SPEECH SIGNAL USING AN EXPERT SYSTEM
BASED ON LOGICAL COMBINATIONS OF DIFFERENT ALGORITHMS OUTPUTS ([Abstract](#))

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UNDERDETERMINED BLIND SPEECH SEPARATION WITH DIRECTIVITY PATTERN BASED CONTINUOUS MASK AND ICA ([Abstract](#))

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A VARIABLE STEP-SIZE APA ALGORITHM ROBUST UNDER IMPULSIVE NOISE INTERFERENCE
([Abstract](#))

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A DIVIDE-AND-CONQUER ALGORITHM FOR CHANNEL ESTIMATION IN MULTI-USER SPACE-TIME CODED TRANSMISSIONS ([Abstract](#))

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PERCEPTUAL MASKS IN THE WAVELET DOMAIN FOR COLOR IMAGE WATERMARKING ([Abstract](#))

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AUTOMATIC SQNR DETERMINATION IN NON-LINEAR AND NON-RECURSIVE FIXED-POINT SYSTEMS ([Abstract](#))

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BLIND IMAGE DEBLURRING IN THE EDGE DOMAIN ([Abstract](#))



BLIND PHASE RECOVERY FOR QAM CONSTELLATIONS ([Abstract](#))

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 THE USE OF EXIT CHARTS IN ITERATIVE SOURCE-CHANNEL DECODING ([Abstract](#))

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EFFICIENT OBJECT RETRIEVAL FROM VIDEOS ([Abstract](#))

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COMPLEX TIME-FREQUENCY AND DUAL-FREQUENCY SPECTRA OF HARMONIZABLE PROCESSES ([Abstract](#))

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EMBEDDED MULTIPLE DESCRIPTION SCALAR QUANTIZERS AND WAVELET-BASED QUADTREE CODING FOR PROGRESSIVE IMAGE TRANSMISSION OVER UNRELIABLE CHANNELS ([Abstract](#))

Jan Schier

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ARCHITECTURE DESIGN FOR FPGA IMPLEMENTATION OF FINITE INTERVAL CMA ([Abstract](#))

Markus Schlosser

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COMMUNICATION CONSTRAINTS AND ASYNCHRONOUS MEASUREMENTS IN DECENTRALIZED
KALMAN FILTERS ([Abstract](#))

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COMPARISON OF AFFINE-INVARIANT LOCAL DETECTORS AND DESCRIPTORS ([Abstract](#))

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APPLICATIONS OF ACOUSTIC ECHO CONTROL – AN OVERVIEW ([Abstract](#))

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BEAM DESIGN FOR A PING-PONG-SAMPLED LINEAR RECEIVE ARRAY ([Abstract](#))

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EXIT CHARTS FOR ITERATIVELY DECODED MULTILEVEL MODULATION ([Abstract](#))

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AN UPDATE ALGORITHM FOR FOURIER COEFFICIENTS ([Abstract](#))

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LOW-COMPLEXITY EQUIVALENT REALIZATIONS OF NONLINEAR MULTIRATE FILTERS ([Abstract](#))

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AUDIO-VIDEO TERMINAL SYSTEM-ON-CHIP SIMULATION ([Abstract](#))

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 A STOCHASTIC MODEL FOR THE TRANSFORM-DOMAIN LMS ALGORITHM ([Abstract](#))

 VARIABLE LEAKAGE FXLMS ALGORITHMS FOR NONLINEAR ACTIVE CONTROL APPLICATIONS
([Abstract](#))

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ON MULTI-MODULATION SCHEMES TO INCREASE THE RATE OF SPACE-TIME BLOCK CODES
([Abstract](#))

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STATISTICAL MODELING OF BIT-ERROR-RATES IN ASYNCHRONOUS MULTICARRIER CDMA AND DIRECT-SEQUENCE CDMA SYSTEMS ([Abstract](#))

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AUTOMATIC SQNR DETERMINATION IN NON-LINEAR AND NON-RECURSIVE FIXED-POINT SYSTEMS ([Abstract](#))

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FOOTSTEP PATTERN MATCHING FROM PRESSURE SIGNALS USING SEGMENTAL SEMI-MARKOV MODELS ([Abstract](#))

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SOUND DETECTION AND CLASSIFICATION THROUGH TRANSIENT MODELS USING WAVELET COEFFICIENT TREES ([Abstract](#))

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 [MATEHEMATIC MORPHOLOGY APPROACH FOR RENAL BIOPSY ANALYSIS \(Abstract\)](#)

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 SEPARATION OF SPEECH SIGNALS UNDER REVERBERANT CONDITIONS ([Abstract](#))

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SEQUENTIAL K-NEAREST NEIGHBOR PATTERN RECOGNITION FOR USABLE SPEECH CLASSIFICATION ([Abstract](#))



SPEAKER IDENTIFICATION IMPROVEMENT USING THE USABLE SPEECH CONCEPT ([Abstract](#))

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A TIME-FREQUENCY DOMAIN APPROACH FOR PITCH-PEAK PICKING OF NOISY SPEECH
([Abstract](#))

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RELATIVE ENERGY AND INTELLIGIBILITY OF TRANSIENT SPEECH COMPONENTS ([Abstract](#))

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"PERSISTENCE OF EDGE-DETECTING PROPERTIES OF A CNN TO VARIATIONS OF THE CELL OUTPUT FUNCTIONS" ([Abstract](#))

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SEVERAL FEATURES FOR DISCRIMINATION BETWEEN VOCAL SOUNDS AND OTHER ENVIRONMENTAL SOUNDS ([Abstract](#))

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WAVELET-BASED VIDEO CODEC USING HUMAN VISUAL SYSTEM COEFFICIENTS FOR 3G
MOBILES ([Abstract](#))

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NEAR-END DISTORTION IN OVER-SAMPLED SUBBAND ADAPTIVE IMPLEMENTATION OF AFFINE PROJECTION ALGORITHM ([Abstract](#))



SEQUENTIAL LMS FOR LOW-RESOURCE SUBBAND ADAPTIVE FILTERING: OVERSAMPLED IMPLEMENTATION AND POLYPHASE ANALYSIS ([Abstract](#))



A POLYPHASE MODEL FOR FAST AFFINE PROJECTION WITH PARTIAL FILTER UPDATE ([Abstract](#))

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AN EDGE-BASED FACE DETECTION ALGORITHM ROBUST AGAINST ILLUMINATION, FOCUS, AND SCALE VARIATIONS ([Abstract](#))

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A SECURE 3D-SPIHT CODEC ([Abstract](#))

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AUDIBLE (NORMAL) SPEECH AND INAUDIBLE MURMUR RECOGNITION USING NAM MICROPHONE
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ON-LINE ADAPTIVE ALGORITHM TO ACOUSTIC FLUCTUATION FOR INVERSE FILTER RELAXATION
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EVALUATION OF BLIND SEPARATION AND DECONVOLUTION FOR BINAURAL-SOUND MIXTURES
USING SIMO-MODEL-BASED ICA ([Abstract](#))

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 NONLINEAR PREDICTIVE ANALYSIS OF SPEECH BY ITERATIVE APPROACH ([Abstract](#))

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SUPER-RESOLUTION DIGITAL IMAGE INTERPOLATION WITH WARPING OF COORDINATE POINT AND BIASING OF SIGNAL AMPLITUDE ([Abstract](#))

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LOSSLESS VIDEO CODING USING VARIABLE BLOCK-SIZE MC AND 3D PREDICTION OPTIMIZED FOR EACH FRAME ([Abstract](#))

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C-BASED HARDWARE DESIGN OF IMDCT ACCELERATOR FOR OGG VORBIS DECODER ([Abstract](#))

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RADIX 2 AND SPLIT RADIX 2-4 ALGORITHMS IN FORMAL SYNTHESIS OF PARALLEL-PIPELINE FFT PROCESSORS ([Abstract](#))

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A TIME-FREQUENCY DOMAIN APPROACH FOR PITCH-PEAK PICKING OF NOISY SPEECH
([Abstract](#))

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RESTORATION OF ATMOSPHERIC TURBULENT VIDEO CONTAINING REAL MOTION USING RANK FILTERING AND ELASTIC IMAGE REGISTRATION ([Abstract](#))

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DESIGN OF PERFECT RECONSTRUCTION MODULATED FILTER BANKS WITH ARBITRARILY HIGH NUMBER OF SUBBANDS ([Abstract](#))

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NONLINEAR ACTIVE NOISE CONTROL ([Abstract](#))

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DETECTION OF BRAIN ACTIVATION FROM MAGNITUDE FMRI DATA USING A GENERALIZED LIKELIHOOD RATIO TEST ([Abstract](#))

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COMBINATION OF PHONE N-GRAMS FOR A MPEG-7-BASED SPOKEN DOCUMENT RETRIEVAL SYSTEM ([Abstract](#))



AUDIO SPECTRUM PROJECTION BASED ON SEVERAL BASIS DECOMPOSITION ALGORITHMS APPLIED TO GENERAL SOUND RECOGNITION AND AUDIO SEGMENTATION ([Abstract](#))

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A ROBUST METHOD FOR CAMERA CALIBRATION AND 3-D RECONSTRUCTION FOR STEREO VISION SYSTEMS ([Abstract](#))

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AN ACCELERATED CONSTANT MODULUS ALGORITHM FOR SPACE-TIME BLIND EQUALIZATION
([Abstract](#))

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SYNCHRONIZATION OVER RAPIDLY TIME-VARYING MULTIPATH CHANNELS FOR CDMA
DOWNLINK RECEIVER IN TIME-DIVISION MODE ([Abstract](#))

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DESIGN OF PERFECT RECONSTRUCTION MODULATED FILTER BANKS WITH ARBITRARILY HIGH NUMBER OF SUBBANDS ([Abstract](#))

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EFFICIENT OBJECT RETRIEVAL FROM VIDEOS ([Abstract](#))

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BAYESIAN ADAPTIVE FILTERING: PRINCIPLES AND PRACTICAL APPROACHES ([Abstract](#))

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 A NARROWBAND LOW BIT RATE SINUSOIDAL AUDIO AND SPEECH CODER ([Abstract](#))

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OPTIMIZATION OF JADE USING A NOVEL OPTIMALLY WEIGHTED JOINT DIAGONALIZATION APPROACH ([Abstract](#))

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A TWO CHANNEL BLOCK-ADAPTIVE AUDIO SEPARATION TECHNIQUE BASED UPON
TIME-FREQUENCY INFORMATION ([Abstract](#))

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SPEAKER IDENTIFICATION IMPROVEMENT USING THE USABLE SPEECH CONCEPT ([Abstract](#))



SEQUENTIAL K-NEAREST NEIGHBOR PATTERN RECOGNITION FOR USABLE SPEECH CLASSIFICATION ([Abstract](#))

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 BAYER PATTERN BASED CFA ZOOMING / CFA INTERPOLATION FRAMEWORK ([Abstract](#))

 A NEW APPROACH TO COLOR IMAGE SECRET SHARING ([Abstract](#))

 NONPARAMETRIC APPROACH TO COLOR BASED IMAGE RETRIEVAL ([Abstract](#))

 NONPARAMETRIC TECHNIQUE OF IMPULSIVE NOISE REMOVAL ([Abstract](#))

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UNBIASED EQUATION-ERROR APPROACH FOR EFFICIENT IIR SYSTEM IDENTIFICATION ([Abstract](#))

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SPEAKER RECOGNITION IMPROVEMENT USING BLIND INVERSION OF DISTORTIONS ([Abstract](#))

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RECONSTRUCTION OF IMAGES FROM THEIR OBSERVATION THROUGH BAYER AND HONEYCOMB
COLOR FILTER ARRAYS ([Abstract](#))

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CONFIDENCE WEIGHTING MISSING FEATURE APPROACH FOR ROBUST SPEECH RECOGNITION
([Abstract](#))

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WAVELET-BASED VIDEO CODEC USING HUMAN VISUAL SYSTEM COEFFICIENTS FOR 3G
MOBILES ([Abstract](#))

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INFLUENCE OF SPECKLE AND POISSON NOISE ON EXOPLANET DETECTION WITH A CORONAGRAPH ([Abstract](#))

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ANALYTIC WAVELETS APPLIED FOR THE DETECTION OF MICROCALCIFICATIONS. A TOOL FOR DIGITAL MAMMOGRAPHY ([Abstract](#))

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RECURSIVE BAYESIAN AUTOREGRESSIVE CHANGEPOINT DETECTOR FOR SEQUENTIAL SIGNAL SEGMENTATION ([Abstract](#))

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WAVE FIELD SYNTHESIS: FROM RESEARCH TO APPLICATIONS ([Abstract](#))

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 ADAPTIVE LISTENING ROOM COMPENSATION FOR SPATIAL AUDIO SYSTEM ([Abstract](#))

 WAVE-DOMAIN ADAPTIVE FILTERING FOR ACOUSTIC HUMAN-MACHINE INTERFACES BASED ON WAVEFIELD ANALYSIS AND SYNTHESIS ([Abstract](#))

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EFFICIENT FREQUENCY-DOMAIN IMPLEMENTATION OF SPEECH DISTORTION WEIGHTED
MULTI-CHANNEL WIENER FILTERING FOR NOISE REDUCTION ([Abstract](#))

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A NOVEL SIGNAL FLOW GRAPH BASED SOLUTION FOR CALCULATION OF FIRST AND SECOND DERIVATIVES OF DYNAMICAL NONLINEAR SYSTEMS ([Abstract](#))



AN ALTERNATIVE NATURAL GRADIENT APPROACH FOR ICA BASED LEARNING ALGORITHMS IN BLIND SOURCE SEPARATION ([Abstract](#))

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SPEECH ENHANCEMENT USING A-PRIORI INFORMATION WITH CLASSIFIED NOISE CODEBOOKS
([Abstract](#))



ROBUST SPECTRUM QUANTIZATION FOR LP PARAMETER ENHANCEMENT ([Abstract](#))

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SOME APPROACHES TO SHAPE ANALYSIS ([Abstract](#))

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"FOXING" IN VINTAGE PHOTOGRAPHS: DETECTION AND REMOVAL ([Abstract](#))

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HARDWARE IMPLEMENTATION OF A FINGERPRINTING ALGORITHM SUITED FOR DIGITAL CINEMA
([Abstract](#))

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ESTIMATION OF MULTICOMPONENT SIGNALS BY USING TIME-FREQUENCY REPRESENTATIONS WITH APPLICATION TO KNOCK SIGNAL ANALYSIS ([Abstract](#))



MULTIPLE CLOCK CYCLE REAL-TIME IMPLEMENTATION OF A SYSTEM FOR TIME-FREQUENCY ANALYSIS ([Abstract](#))



ROBUST TIME-FREQUENCY ANALYSIS: DEFINITIONS AND REALIZATIONS ([Abstract](#))



AN APPROACH TO TRANSFORM DOMAIN VARIABLE STEP-SIZE LMS ADAPTIVE FILTER ([Abstract](#))

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EXTENDED KALMAN FILTER IN BLIND SEPARATION OF NONSTATIONARY SIGNALS ([Abstract](#))

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SVM BASED TEXT-DEPENDENT SPEAKER IDENTIFICATION FOR LARGE SET OF VOICES ([Abstract](#))

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MIXED-RADIX FFT FOR IMPROVING CACHE PERFORMANCE ([Abstract](#))

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TWO-DIMENSIONAL AUTOREGRESSIVE MODELLING USING JOINT SECOND AND THIRD ORDER STATISTICS AND A WEIGHTING SCHEME ([Abstract](#))

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 ADAPTIVE RESOURCE ALLOCATION IN MULTIUSER FDD-DMT SYSTEMS ([Abstract](#))

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FIXED-LAG SEQUENTIAL MONTE CARLO ([Abstract](#))

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SIMULATION TOOL AND RAPID PROTOTYPING FOR CDMA2000 ([Abstract](#))

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3-D TEXTURE MODEL BASED ON THE WOLD DECOMPOSITION ([Abstract](#))

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OBJECTIVE IMAGE QUALITY MEASURES BY PLANAR GLYPH REPRESENTATION ([Abstract](#))

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A CAPON-LIKE SPATIAL SPECTRUM ESTIMATOR FOR CORRELATED SOURCES ([Abstract](#))

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 EFFICIENT DESIGN OF ADAPTIVE COMPLEX NARROWBAND IIR FILTERS ([Abstract](#))

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COMPARISON OF JPEG AND JPEG 2000 IN LOW-POWER CONFIDENTIAL IMAGE TRANSMISSION
([Abstract](#))



LAYERED ENCRYPTION TECHNIQUES FOR DCT-CODED VISUAL DATA ([Abstract](#))

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LOOP OPTIMIZATION WITH TRADEOFF BETWEEN CYCLE COUNT AND CODE SIZE FOR DSP APPLICATIONS ([Abstract](#))

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A COMBINED WAVELET-BASED IMAGE PROCESSING METHOD FOR EMERGENT CRACK
DETECTION ON PAVEMENT SURFACE IMAGES ([Abstract](#))

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EXTENSION AND EVALUATION OF MDS FOR GEOMETRIC MICROPHONE ARRAY CALIBRATION
([Abstract](#))

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INSURING SPECTRAL COMPATIBILITY OF ITERATIVE WATER-FILLING ([Abstract](#))

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ACOUSTIC ECHO CANCELLATION FOR CONFERENCE SYSTEMS ([Abstract](#))

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 ECHO CANCELLATION USING A VARIABLE STEP-SIZE NLMS ALGORITHM ([Abstract](#))

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AN MMSE INTERFERENCE ESTIMATOR FOR TURBO BLAST SYSTEMS ([Abstract](#))

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FOOTSTEP PATTERN MATCHING FROM PRESSURE SIGNALS USING SEGMENTAL SEMI-MARKOV MODELS ([Abstract](#))

Kenji Suyama

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A POWERS-OF-TWO TERM ALLOCATION ALGORITHM FOR DESIGNING FIR FILTERS WITH CSD COEFFICIENTS IN A MIN-MAX SENSE ([Abstract](#))

Yasufumi Suzuki

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AN EDGE-BASED FACE DETECTION ALGORITHM ROBUST AGAINST ILLUMINATION, FOCUS, AND SCALE VARIATIONS ([Abstract](#))

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FILTER BANK DESIGN WITH GROUP DELAY APPROXIMATIONS ([Abstract](#))

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APPLICATION OF 1-D FILTERS TO IMAGE TRANSMULTIPLEXING ([Abstract](#))