

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Hamdini, R., Diffeallah, N., Namane, A.	Robust local descriptor for color object recognition	Color Object Recognition, Hue, Oriented Descriptor, SVM, Visual Information	36, 6, 471-482	10.18280/ts.360601	Hamdini, R., Diffeallah, N., Namane, A. (2019). Robust local descriptor for color object recognition. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 471-482. https://doi.org/10.18280/ts.360601
2	Ouchtati, S., Chergui, A., Mavromatis, S., Aissa, B., Rafik, D., Sequeira J.	Novel method for brain tumor classification based on use of image entropy and seven Hu's invariant moments	Artificial Neural Networks, Medical Images Processing, Images Classification, Brain Tumor	36, 6, 483-491	10.18280/ts.360602	Ouchtati, S., Chergui, A., Mavromatis, S., Aissa, B., Rafik, D., Sequeira J. (2019). Novel method for brain tumor classification based on use of image entropy and seven Hu's invariant moments. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 483-491. https://doi.org/10.18280/ts.360602
3	Gündoğdu, S., Doğan, E.A., Gülbetkin, E., Çolak, Ö.H., Polat, Ö.	Evaluation of the EEG signals and eye tracker data for working different N-back modes	Electroencephalography, Eye Tracking, Wavelet Transforms, N-Back Test	36, 6, 493-500	10.18280/ts.360603	Gündoğdu, S., Doğan, E.A., Gülbetkin, E., Çolak, Ö.H., Polat, Ö. (2019). Evaluation of the EEG signals and eye tracker data for working different N-back modes. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 493-500. https://doi.org/10.18280/ts.360603
4	Ye, Z.X., Chen, Q., Zhang, Y., Zou, J.F., Zheng, Y.	Identification of vortex structures in flow field images based on convolutional neural network and dynamic mode decomposition	Image Processing, Vortex Identification, Convolutional Neural Network (CNN), Dynamic Mode Decomposition (DMD)	36, 6, 501-506	10.18280/ts.360604	Ye, Z.X., Chen, Q., Zhang, Y., Zou, J.F., Zheng, Y. (2019). Identification of vortex structures in flow field images based on convolutional neural network and dynamic mode decomposition. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 501-506. https://doi.org/10.18280/ts.360604
5	Fekri-Ershad, S.	Gender classification in human face images for smart phone applications based on local texture information and evaluated Kullback-Leibler divergence	Gender Classification, Human Recognition, Improved Local Binary Patterns, Facial Images, Kullback-Leibler Divergence Ratio, Smart Phone Applications	36, 6, 507-514	10.18280/ts.360605	Fekri-Ershad, S. (2019). Gender classification in human face images for smart phone applications based on local texture information and evaluated Kullback-Leibler divergence. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 507-514. https://doi.org/10.18280/ts.360605
6	Xiu, G.Y., Yuan, C.Y., Chen, X.H., Li, X.S.	An innovative beam hardening correction method for computed tomography systems	Computed Tomography (CT), Equivalent Tissue Length, Trinomial Fitting, Water, Bone	36, 6, 515-520	10.18280/ts.360606	Xiu, G.Y., Yuan, C.Y., Chen, X.H., Li, X.S. (2019). An innovative beam hardening correction method for computed tomography systems. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 515-520. https://doi.org/10.18280/ts.360606
7	Tuncer, S.A., Alkan, A.	Spinal cord based kidney segmentation using connected component labeling and K-means clustering algorithm	Biomedical Imaging, Clustering Algorithms, Image Processing, Image Segmentation	36, 6, 521-527	10.18280/ts.360607	Tuncer, S.A., Alkan, A. (2019). Spinal cord based kidney segmentation using connected component labeling and K-means clustering algorithm. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 521-527. https://doi.org/10.18280/ts.360607
8	Ganguly, S., Ghosh, J., Srinivas, K., Kumar, P.K., Mukhopadhyay, M.	Compressive sensing based two-dimensional DOA estimation using L-shaped array in a hostile environment	Compressive Sensing, L-Shaped Array Antenna, Orthogonal Matching Pursuit Algorithm, Sparse Sampling, Two-Dimensional DOA Estimation	36, 6, 529-538	10.18280/ts.360608	Ganguly, S., Ghosh, J., Srinivas, K., Kumar, P.K., Mukhopadhyay, M. (2019). Compressive sensing based two-dimensional DOA estimation using L-shaped array in a hostile environment. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 529-538. https://doi.org/10.18280/ts.360608
9	Zhang, J.H., Zhu, Q., Song, L.	A wavelet-based self-adaptive hierarchical thresholding algorithm and its application in image denoising	Wavelet Analysis, Image Denoising, Parametric Construction of Biorhodgelet Wavelet, Self-Adaptive Hierarchical Thresholding	36, 6, 539-547	10.18280/ts.360609	Zhang, J.H., Zhu, Q., Song, L. (2019). A wavelet-based self-adaptive hierarchical thresholding algorithm and its application in image denoising. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 539-547. https://doi.org/10.18280/ts.360609
10	Özbay, E., Çınar, A.	A comparative study of object classification methods using 3D Zernike moment on 3D point clouds	3D, Classification, Machine Learning, Point Cloud, Pointnet, Zernike Moment	36, 6, 549-555	10.18280/ts.360610	Özbay, E., Çınar, A. (2019). A comparative study of object classification methods using 3D Zernike moment on 3D point clouds. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 549-555. https://doi.org/10.18280/ts.360610
11	Pei, J.Y., Shan, P.	A micro-expression recognition algorithm for students in classroom learning based on convolutional neural network	Convolutional Neural Network (CNN), Micro-Expression Recognition, Deep Learning, Face Detection, Classroom Learning	36, 6, 557-563	10.18280/ts.360611	Pei, J.Y., Shan, P. (2019). A micro-expression recognition algorithm for students in classroom learning based on convolutional neural network. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 557-563. https://doi.org/10.18280/ts.360611
12	Kuraparathi, S., Kollati, M., Kora, P.	Robust optimized discrete wavelet transform-singular value decomposition based video watermarking	ABC, DWT, Imperceptibility, Robustness, SVD Transform	36, 6, 565-573	10.18280/ts.360612	Kuraparathi, S., Kollati, M., Kora, P. (2019). Robust optimized discrete wavelet transform-singular value decomposition based video watermarking. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 565-573. https://doi.org/10.18280/ts.360612
13	Meng, W.L., Mao, C.Z., Zhang, J., Wen, J., Wu, D.H.	A fast recognition algorithm of online social network images based on deep learning	Online Social Network (OSN), Image Recognition, Deep Learning, Image Classification, Support Vector Machine (SVM)	36, 6, 575-580	10.18280/ts.360613	Meng, W.L., Mao, C.Z., Zhang, J., Wen, J., Wu, D.H. (2019). A fast recognition algorithm of online social network images based on deep learning. <i>Traitement du Signal</i> , Vol. 36, No. 6, pp. 575-580. https://doi.org/10.18280/ts.360613
14	Özdemir, H., Sever, R., Polat, Ö.	GA-based optimization of SURF algorithm and realization based on Vivado-HLS	Speeded-Up Robust Features, High-Level Synthesis, Genetic Algorithm, Optimization, Character Recognition	36, 5, 377-382	10.18280/ts.360501	Özdemir, H., Sever, R., Polat, Ö. (2019). GA-based optimization of SURF algorithm and realization based on Vivado-HLS. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 377-382. https://doi.org/10.18280/ts.360501
15	Shargoud, F., Djeha, M., Guiatni, M., Ababou, N.	WPT-ANN and belief theory based EEG/EMG data fusion for movement identification	Wavelet Packet Transform, Artificial Neural Networks, Belief Theory, Data Fusion, Hand Movement Identification, Electro-Physiological Signals, Electromyography, Electroencephalography	36, 5, 383-391	10.18280/ts.360502	Shargoud, F., Djeha, M., Guiatni, M., Ababou, N. (2019). WPT-ANN and belief theory based EEG/EMG data fusion for movement identification. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 383-391. https://doi.org/10.18280/ts.360502
16	Zhang, F., Zhang, C., Yang, H.M., Zhao, L.	Point cloud denoising with principal component analysis and a novel bilateral filter	Point Cloud, 3D Scanner, Principal Component Analysis (PCA), Bilateral Filter	36, 5, 393-398	10.18280/ts.360503	Zhang, F., Zhang, C., Yang, H.M., Zhao, L. (2019). Point cloud denoising with principal component analysis and a novel bilateral filter. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 393-398. https://doi.org/10.18280/ts.360503
17	Beirami, B.A., Mokhtarzade, M.	Spatial-spectral random patches network for classification of hyperspectral images	Hyperspectral Classification, Random Patches Network, Gabor Filter, Support Vector Machine	36, 5, 399-406	10.18280/ts.360504	Beirami, B.A., Mokhtarzade, M. (2019). Spatial-spectral random patches network for classification of hyperspectral images. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 399-406. https://doi.org/10.18280/ts.360504
18	Herbadji, D., Derouiche, N., Belmeugeni, A., Herbadji, A., Boumerdassi, S.	A tweakable image encryption algorithm using an improved logistic chaotic map	Image Encryption, Chaos, Logistic Map, Tweakable	36, 5, 407-417	10.18280/ts.360505	Herbadji, D., Derouiche, N., Belmeugeni, A., Herbadji, A., Boumerdassi, S. (2019). A tweakable image encryption algorithm using an improved logistic chaotic map. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 407-417. https://doi.org/10.18280/ts.360505
19	Zhang, C., Pan, S., Qi, Y.W., Yang, Y.D.	A footprint extraction and recognition algorithm based on plantar pressure	Footprint Recognition, Plantar Pressure, Clustering, Image Segmentation	36, 5, 419-424	10.18280/ts.360506	Zhang, C., Pan, S., Qi, Y.W., Yang, Y.D. (2019). A footprint extraction and recognition algorithm based on plantar pressure. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 419-424. https://doi.org/10.18280/ts.360506
20	Gupta, A.K., Chakraborty, C., Gupta, B.	Monitoring of epileptical patients using cloud-enabled health-IoT system	DWT-SVD, EEG Monitoring, Epilepsy, Health-IoT, STFT, Watermarking	36, 5, 425-431	10.18280/ts.360507	Gupta, A.K., Chakraborty, C., Gupta, B. (2019). Monitoring of epileptical patients using cloud-enabled health-IoT system. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 425-431. https://doi.org/10.18280/ts.360507
21	Farooq, U., Rather, G.M.	Design and analysis of rectangular microstrip antenna (RMSA) for millimeter wave communication applications	Millimeter Wave, Microstrip Antenna, Equivalent Circuit, VSWR, Next Generation Networks, 5G	36, 5, 433-438	10.18280/ts.360508	Farooq, U., Rather, G.M. (2019). Design and analysis of rectangular microstrip antenna (RMSA) for millimeter wave communication applications. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 433-438. https://doi.org/10.18280/ts.360508
22	Li, H., Ge, X.	Design and application of an image classification algorithm based on semantic discrimination	Image Classification, Distance Metric Learning (DML), Maximum-Margin Criterion (MMC), Semantic Discrimination	36, 5, 439-444	10.18280/ts.360509	Li, H., Ge, X. (2019). Design and application of an image classification algorithm based on semantic discrimination. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 439-444. https://doi.org/10.18280/ts.360509
23	Wajeed, M.A., Sreenivasulu, V.	Image based tumor cells identification using convolutional neural network and auto encoders	Convolutional Neural Network, Region-Convolutional Neural Network, Tumor Cells, Pre Processing, Clustering, Classification, Tumor Prediction	36, 5, 445-453	10.18280/ts.360510	Wajeed, M.A., Sreenivasulu, V. (2019). Image based tumor cells identification using convolutional neural network and auto encoders. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 445-453. https://doi.org/10.18280/ts.360510

24	Singh, M.K., Nandan, D., Kumar, S.	Statistical analysis of lower and raised pitch voice signal and its efficiency calculation	Acoustic Feature, Statistical Analysis, Feature Extraction, SVM Classifier, Speaker Identification	36, 5, 455-461	10.18280/ts.360511	Singh, M.K., Nandan, D., Kumar, S. (2019). Statistical analysis of lower and raised pitch voice signal and its efficiency calculation. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 455-461. https://doi.org/10.18280/ts.360511
25	Li, Y., Shi, D.L., Bu, F.J.	Automatic recognition of rock images based on convolutional neural network and discrete cosine transform	Deep Learning, Image Classification, Convolutional Neural Network (CNN), Discrete Cosine Transform (DCT)	36, 5, 463-469	10.18280/ts.360512	Li, Y., Shi, D.L., Bu, F.J. (2019). Automatic recognition of rock images based on convolutional neural network and discrete cosine transform. <i>Traitement du Signal</i> , Vol. 36, No. 5, pp. 463-469. https://doi.org/10.18280/ts.360512
26	Moezzi R., Hlava J., Vu T.M.	Implementation of X-parameters principle for non-linear vibroacoustic membrane using two-port measurement	X-Parameters, Poly-Harmonic Distortion (PHD), S-Parameters, Lumped Model, Nonlinear Acoustics, Scattering Matrix	36, 4, 297-301	10.18280/ts.360401	Moezzi R., Hlava J., Vu, T.M. (2019). Implementation of X-parameters principle for non-linear vibroacoustic membrane using two-port measurement. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 297-301. https://doi.org/10.18280/ts.360401
27	Kaya, D., Tuncer, S.A.	Generating random numbers from biological signals in labVIEW environment and statistical analysis	True Random Number Generator (TRNG), Biological Signal, Electromyographic (EMG) Signal, LabVIEW, Statistical Test	36, 4, 303-310	10.18280/ts.360402	Kaya, D., Tuncer, S.A. (2019). Generating random numbers from biological signals in LabVIEW environment and statistical analysis. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 303-310. https://doi.org/10.18280/ts.360402
28	Liu, Q., He, X., Guan, F.W., Zhao, Y.C., Jiang, F., Tian, F.X., Wang, S.X.	Method and implementation of improving the pointing accuracy of an optical remote sensor using a star sensor	Star Sensor, Spatial Optical Remote Sensor, External Orientation Element, Pointing Accuracy	36, 4, 311-317	10.18280/ts.360403	Liu, Q., He, X., Guan, F.W., Zhao, Y.C., Jiang, F., Tian, F.X., Wang, S.X. (2019). Method and implementation of improving the pointing accuracy of an optical remote sensor using a star sensor. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 311-317. https://doi.org/10.18280/ts.360403
29	Gorur, K., Bozkurt, M.R., Basçil, M.S., Temurtas, F.	GKP signal processing using deep CNN and svm for tongue-machine interface	Glossokinetic Potential Signals (GKPs), Tongue-Machine Interface (TMI), Convolutional Neural Network (CNN), Support Vector Machine (SVM), Brain-Computer Interface (BCI)	36, 4, 319-329	10.18280/ts.360404	Gorur, K., Bozkurt, M.R., Basçil, M.S., Temurtas, F. (2019). GKP signal processing using deep CNN and SVM for tongue-machine interface. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 319-329. https://doi.org/10.18280/ts.360404
30	Yang, K., Yang, Z.T., Yan, W.N., Zhao, J.K., Du, Y., Liu, S., Liu, K.	Reconstruction algorithm for polychromatic computed tomography images based on equivalent tissue length	Beam Hardening, Computed Tomography (CT), Equivalent Tissue Length, Proportional Guidance	36, 4, 331-338	10.18280/ts.360405	Yang, K., Yang, Z.T., Yan, W.N., Zhao, J.K., Du, Y., Liu, S., Liu, K. (2019). Reconstruction algorithm for polychromatic computed tomography images based on equivalent tissue length. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 331-338. https://doi.org/10.18280/ts.360405
31	Sajja, T.K., Devarapalli, R.M., Kalluri, H.K.	Lung cancer detection based on ct scan images by using deep transfer learning	Convolutional Neural Network (CNN), Lung Cancer, Transfer Learning, AlexNet, GoogleNet, ResNet50	36, 4, 339-344	10.18280/ts.360406	Sajja, T.K., Devarapalli, R.M., Kalluri, H.K. (2019). Lung cancer detection based on CT scan images by using deep transfer learning. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 339-344. https://doi.org/10.18280/ts.360406
32	Qin, Z., Zhang, Y., Zhang, S., Zhao, J.W., Wang, T.F., Shen, K.	Identification of microscopic damage law of rocks through digital image processing of computed tomography images	Digital Image Processing (DIP), Geotechnical Engineering, Computed Tomography (CT) Scanning, Representative Elementary Volume (REV), Microscopic Damages	36, 4, 345-352	10.18280/ts.360407	Qin, Z., Zhang, Y., Zhang, S., Zhao, J.W., Wang, T.F., Shen, K. (2019). Identification of microscopic damage law of rocks through digital image processing of computed tomography images. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 345-352. https://doi.org/10.18280/ts.360407
33	Teki, S.M., Varma, M.K., Yadav, A.K.	Brain tumour segmentation using U-net based adversarial networks	Image Segmentation, Brain Tumour, Deep Learning, Adversarial Network, Neural Networks	36, 4, 353-359	10.18280/ts.360408	Teki, S.M., Varma, M.K., Yadav, A.K. (2019). Brain tumour segmentation using U-net based adversarial networks. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 353-359. https://doi.org/10.18280/ts.360408
34	Sheikh, T.A., Bora, J., Hussain, A.	Performance analysis of massive multi-input and multi-output with imperfect channel state information	Massive Multi-Input and Multi-Output (MIMO), 5G, User Scheduling, Antenna Selection, Scale Fading, Channel Estimation Error	36, 4, 361-368	10.18280/ts.360409	Sheikh, T.A., Bora, J., Hussain, A. (2019). Performance analysis of massive multi-input and multi-output with imperfect channel state information. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 361-368. https://doi.org/10.18280/ts.360409
35	Li, X., Lin, C., Xu, X.P.	A target tracking model for enterprise production monitoring system based on spatial information and appearance model	Target Tracking, Appearance Features, Spatial Information, Multi-Plane Projection	36, 4, 369-375	10.18280/ts.360410	Li, X., Lin, C., Xu, X.P. (2019). A target tracking model for enterprise production monitoring system based on spatial information and appearance model. <i>Traitement du Signal</i> , Vol. 36, No. 4, pp. 369-375. https://doi.org/10.18280/ts.360410
36	Eva, O.D., Lazar, A.M.	Amplitude modulation index as feature in a brain computer interface	Classification Algorithms, EEG Rhythms Electroencephalography, Features Extraction, Hilbert Transform, Motor Imagery, Modulation Bands, Temporal Envelope	36, 3, 201-207	10.18280/ts.360301	Eva, O.D., Lazar, A.M. (2019). Amplitude modulation index as feature in a brain computer interface. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 201-207. https://doi.org/10.18280/ts.360301
37	Zhao, Y.M., Zhao, Y.M.	Design and application of an adaptive slow feature extraction algorithm for natural images based on visual invariance	Invariant, Slow Feature (SF), Visual Computing, Receptive Field, Topology	36, 3, 209-216	10.18280/ts.360302	Zhao, Y.M. (2019). Design and application of an adaptive slow feature extraction algorithm for natural images based on visual invariance. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 209-216. https://doi.org/10.18280/ts.360302
38	Fatima, B., Réda, A.	Multi-modal biometric protection system using surf filter with biohashing algorithm	MULTI-BIOMETRIC, SECURITY, FUSION, BIOHASHING, REVOCABLE	36, 3, 217-225	10.18280/ts.360303	Fatima, B., Réda, A. (2019). Multi-modal biometric protection system using SURF Filter with Biohashing algorithm. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 217-225. https://doi.org/10.18280/ts.360303
39	Lu, X.M., Wu, Q., Zhou, Y., Ma, Y., Song, C.C., Ma, C.	A dynamic swarm firefly algorithm based on chaos theory and max-min distance algorithm	K-Means Clustering (KMC), Max-Min Distance Algorithm (MM), Firefly Algorithm (FA), Chaos Theory	36, 3, 227-231	10.18280/ts.360304	Lu, X.M., Wu, Q., Zhou, Y., Ma, Y., Song, C.C., Ma, C. (2019). A dynamic swarm firefly algorithm based on chaos theory and Max-Min distance algorithm. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 227-231. https://doi.org/10.18280/ts.360304
40	Kumar, S.K., Reddy, P.D.K., Ramesh, G., Maddumala, V.R.	Image transformation technique using steganography methods using LWT technique	Embedding, Steganography, Extraction, Texturization, Watermarking	36, 3, 233-237	10.18280/ts.360305	Kumar, S.K., Reddy, P.D.K., Ramesh, G., Maddumala, V.R. (2019). Image transformation technique using steganography methods using LWT technique. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 233-237. https://doi.org/10.18280/ts.360305
41	Li, Z.L., Zhou, Y., Bao, R.	An image classification method based on optimized fuzzy bag-of-words model	Fuzzy Bag-Of-Words (FBOW) Model, Image Description, Fuzzy System with Positive and Negative Rules, Particle Swarm Optimization (PSO), Recursive Least Squares (RLS) Algorithm	36, 3, 239-244	10.18280/ts.360306	Li, Z.L., Zhou, Y., Bao, R. (2019). An image classification method based on optimized fuzzy bag-of-words model. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 239-244. https://doi.org/10.18280/ts.360306
42	Chergui, L., Bouguezel, S.	A new post-whitening transform domain LMS algorithm	Eigen-Value Spread, Orthogonal Transforms, Post-Whitening, Predictive Decorrelation, System Identification, TDLMS	36, 3, 245-252	10.18280/ts.360307	Chergui, L., Bouguezel, S. (2019). A new post-whitening transform domain LMS algorithm. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 245-252. https://doi.org/10.18280/ts.360307
43	Gao, Y.H., Lu, H.L.	A novel co-planar waveguide-fed direct current wide band printed dipole antenna	Dipole Antenna, Coplanar Waveguide (CPW), base Station, Radio Frequency Identification (RFID)	36, 3, 253-257	10.18280/ts.360308	Gao, Y.H., Lu, H.L. (2019). A novel co-planar waveguide-fed direct current wide band printed dipole antenna. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 253-257. https://doi.org/10.18280/ts.360308
44	Shafieian, M., Zavar, M., Rahmani, M.	Simulation and control of surge phenomenon in centrifugal compressors	Centrifugal Compressor, Surge Modeling, Nonlinear Function, Close-Coupled Valve, Lyapunov, Surge Protection, Control Valve, Stability	36, 3, 259-264	10.18280/ts.360309	Shafieian, M., Zavar, M., Rahmani, M. (2019). Simulation and control of surge phenomenon in centrifugal compressors. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 259-264. https://doi.org/10.18280/ts.360309
45	Lao, Z.L., Jia, Y.B., He, J.Z.	An optic disc segmentation method based on active contour tracking	Optic Disc Segmentation, Retinal Image, Active Contour Tracking, Least Squares Method	36, 3, 265-271	10.18280/ts.360310	Lao, Z.L., Jia, Y.B., He, J.Z. (2019). An optic disc segmentation method based on active contour tracking. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 265-271. https://doi.org/10.18280/ts.360310
46	Rafik, D., Larbi, B.	Autoregressive modeling based empirical mode decomposition (EMD) for epileptic seizures detection using eeg signals	Epilepsy, Epileptic EEG Signals, EMD, Autoregressive Modeling, Classification, Seizures	36, 3, 273-279	10.18280/ts.360311	Rafik, D., Larbi, B. (2019). Autoregressive modeling based empirical mode decomposition (EMD) for epileptic seizures detection using EEG signals. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 273-279. https://doi.org/10.18280/ts.360311

47	Shankar, R., Kumar, I., Mishra, R.K.	Pairwise error probability analysis of dual hop relaying network over time selective nakagami-m fading channel with imperfect csi and node mobility	Selective Decode-And-Forward, Multiple-Input Multiple-Output, Channel State Information, Diversity Order, Signal to Noise Ratio	36, 3, 281-295	10.18280/ts.360312	Shankar, R., Kumar, I., Mishra, R.K. (2019). Pairwise error probability analysis of dual hop relaying network over time selective Nakagami-m fading channel with imperfect CSI and node mobility. <i>Traitement du Signal</i> , Vol. 36, No. 3, pp. 281-295. https://doi.org/10.18280/ts.360312
48	Eddine Cherif, B.D., Bendiabellah, A., Tabkhak, M.	Diagnosis of an inverter IGBT open-circuit fault by hilbert-huang transform application	Inverter, IGBT, Open-Circuit, HHT, EMD, CEEMDAN, IMF, Spectral Envelope, RMS	36, 2, 137-132	10.18280/ts.360201	Eddine Cherif, B.D., Bendiabellah, A., Tabkhak, M. (2019). Diagnosis of an inverter IGBT open-circuit fault by hilbert-huang transform application. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 127-132. https://doi.org/10.18280/ts.360201
49	Rad, S.M., Nejad, M.B.	New analog processing technique in multichannel neural signal recording with reduce data rate and reduce power consumption	Analog Processor, Compressive Sampling, Spike Detection, Multi-Channel Neural Recording System, Reduce Power Consumption	36, 2, 133-137	10.18280/ts.360202	Rad, S.M., Nejad, M.B. (2019). New analog processing technique in multichannel neural signal recording with reduce data rate and reduce power consumption. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 133-137. https://doi.org/10.18280/ts.360202
50	Zhu, Y.L., Xu, C.G., Xiao, D.G.	Denoising ultrasonic echo signals with generalized s transform and singular value decomposition	Echo Signals, Generalized S Transform (GST), Singular Value Decomposition (SVD), C-Scan Image	36, 2, 139-145	10.18280/ts.360203	Zhu, Y.L., Xu, C.G., Xiao, D.G. (2019). Denoising ultrasonic echo signals with generalized s transform and singular value decomposition. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 139-145. https://doi.org/10.18280/ts.360203
51	Zou, H.D., Jia, R.Q.	Visual positioning and recognition of gangues based on scratch feature detection	Gangue, Raw Coal, Grey Level Co-Occurrence Matrix (GLCM), Texture Feature, Scratch Feature	36, 2, 147-153	10.18280/ts.360204	Zou, H.D., Jia, R.Q. (2019). Visual positioning and recognition of gangues based on scratch feature detection. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 147-153. https://doi.org/10.18280/ts.360204
52	Sachan, V., Mishra, R.K.	Uplink sum rate and capacity of hybrid precoding mmwave massive MIMO system	MIMO, Massive MIMO, Millimeter Wave, Hybrid Precoding and Combining	36, 2, 155-160	10.18280/ts.360205	Sachan, V., Mishra, R.K. (2019). Uplink sum rate and capacity of hybrid precoding mmWave massive MIMO system. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 155-160. https://doi.org/10.18280/ts.360205
53	Xie, J.B., Li, R.T., Lv, S.W., Wang, Y.J., Wang, Q.Y., Vorontitsky, Y.I.	Chinese alt text writing based on deep learning	Chinese Image Captioning, Deep Convolutional Neural Network (DCNN), Feature Extraction, Gated Recurrent Unit (GRU) Network	36, 2, 161-170	10.18280/ts.360206	Xie, J.B., Li, R.T., Lv, S.W., Wang, Y.J., Wang, Q.Y., Vorontitsky, Y.I. (2019). Chinese alt text writing based on deep learning. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 161-170. https://doi.org/10.18280/ts.360206
54	Choudhira, I., Khodja, D.E., Chakroune, S.	Continuous wavelet technique for detection of broken bar faults in induction machine	Continuous Wavelet (CWT), Induction Machine Diagnosis, Signal Processing, Faults Signatures, Indicator Values	36, 2, 171-176	10.18280/ts.360207	Choudhira, I., Khodja, D.E., Chakroune, S. (2019). Continuous wavelet technique for detection of broken bar faults in induction machine. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 171-176. https://doi.org/10.18280/ts.360207
55	Zhang, J.H., Zhu, Q., Song, L.	Self-adaptive hierarchical threshold denoising based on parametric construction of fixed-length tight-supported biorthogonal wavelets	Fixed-Length Tight-Supported (FLTS) Biorthogonal Wavelet, Parametric Construction, Self-Adaptive Hierarchical Threshold Denoising (SAHTD), Scale Factor, Sign Function	36, 2, 177-184	10.18280/ts.360208	Zhang, J.H., Zhu, Q., Song, L. (2019). Self-adaptive hierarchical threshold denoising based on parametric construction of fixed-length tight-supported biorthogonal wavelets. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 177-184. https://doi.org/10.18280/ts.360208
56	Chinnam, S.K.R., Sistla, V., Kolli, V.K.K.	SVM-PUK kernel based MRI-brain tumor identification using texture and gabor wavelets	Brain Tumor, Statistical Features, Principle Component Analysis, Gabor, Support Vector Machine, PUK Kernel	36, 2, 185-191	10.18280/ts.360209	Chinnam, S.K.R., Sistla, V., Kolli, V.K.K. (2019). SVM-PUK kernel based MRI-brain tumor identification using texture and Gabor wavelets. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 185-191. https://doi.org/10.18280/ts.360209
57	HimaBindu, G., Anuradha, C., Chandra Murty, P.S.R.	Assessment of combined shape, color and textural features for video duplication	Video, Shape, Color, Grey-Level Co-Occurrence Matrix (GLCM), Grey-Level Run Length Matrix (GLRLM)	36, 2, 193-199	10.18280/ts.360210	HimaBindu, G., Anuradha, C., Chandra Murty, P.S.R. (2019). Assessment of combined shape, color and textural features for video duplication. <i>Traitement du Signal</i> , Vol. 36, No. 2, pp. 193-199. https://doi.org/10.18280/ts.360210
58	Loufif, B., Samir, Z., Ali, D., Zineabidine, G.M.	Real time implementation of type-2 fuzzy backstepping sliding mode controller for twin rotor MIMO system (TRMs)	TRMS Model, Interval Type-2 Fuzzy Logic, Sliding Mode, Backstepping, T2FBSMC	36, 1, 1-11	10.18280/ts.360101	Loufif, B., Samir, Z., Ali, D., Zineabidine, G.M. (2019). Real time implementation of type-2 fuzzy backstepping sliding mode controller for twin rotor MIMO system (TRMS). <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 1-11. https://doi.org/10.18280/ts.360101
59	Reddy, C.V.R., Reddy, U.S., Kishore, K.V.K.	Facial emotion recognition using NLPFA and SVM	Gabor Wavelet, Haar Wavelet, PCA, NLPFA, SVM	36, 1, 13-22	10.18280/ts.360102	Reddy, C.V.R., Reddy, U.S., Kishore, K.V.K. (2019). Facial emotion recognition using NLPFA and SVM. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 13-22. https://doi.org/10.18280/ts.360102
60	Huang, F., Zheng, N.N.	A novel frequent pattern mining algorithm for real-time radar data stream	Frequent Pattern, Data Mining, Radar Data, Data Stream, Index Pattern Tree (IPT)	36, 1, 23-30	10.18280/ts.360103	Huang, F., Zheng, N.N. (2019). A novel frequent pattern mining algorithm for real-time radar data stream. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 23-30. https://doi.org/10.18280/ts.360103
61	Cai, Q.R.	A secure image encryption algorithm based on composite chaos theory	Image Encryption, Permutation, Diffusion, Composite Chaotic System	36, 1, 31-36	10.18280/ts.360104	Cai, Q.R. (2019). A secure image encryption algorithm based on composite chaos theory. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 31-36. https://doi.org/10.18280/ts.360104
62	Loufif, B.	Faults detection and diagnosis of multilevel inverter based on signal processing	Active Power Filter, Multilevel Inverter, PWM-Controlled, Open Transistor Fault, THD, Mean Values	36, 1, 37-44	10.18280/ts.360105	Loufif, B. (2019). Faults detection and diagnosis of multilevel inverter based on signal processing. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 37-44. https://doi.org/10.18280/ts.360105
63	Oulaya, B., Aissa, B., Salim, O.	Secure transfer of color images using horizontal and vertical scan	Image, Encryption, Decryption, Scan Pattern, Stream Cipher, Keystream Generator, Permutation, NLFPSR	36, 1, 45-51	10.18280/ts.360106	Oulaya, B., Aissa, B., Salim, O. (2019). Secure transfer of color images using horizontal and vertical scan. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 45-51. https://doi.org/10.18280/ts.360106
64	Liang, H., Zhang, Q., Fu, C., Liang, F., Sun, Y.S.	Surface modelling of jun ware based on ordinary differential equations	Ordinary Differential Equation (ODE), Shape Modelling, Digital Modelling, Jun Ware	36, 1, 53-58	10.18280/ts.360107	Liang, H., Zhang, Q., Fu, C., Liang, F., Sun, Y.S. (2019). Surface modelling of Jun ware based on ordinary differential equations. <i>Traitement du Signal</i> , Vol. 1, No. 1, pp. 53-58. https://doi.org/10.18280/ts.360107
65	Shankar, R., Kumar, I., Mishra, R.K.	Outage probability analysis of MIMO-OSTBC relaying network over nakagami-m fading channel conditions	Cooperative Communication, Outage Probability, Pairwise Error Probability, Channel State Information, Convex Optimization	36, 1, 59-64	10.18280/ts.360108	Shankar, R., Kumar, I., Mishra, R.K. (2019). Outage probability analysis of MIMO-OSTBC relaying network over Nakagami-m fading channel conditions. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 59-64. https://doi.org/10.18280/ts.360108
66	Wang, S., Hu, Y.Z., Liu, N.	Signal separation of phase-sensitive optical time-domain reflectometry considering thermo-mechanical coupling and 3D data matching	Phase-Sensitive Optical Time-Domain Reflectometry (OTDR), Thermo-Mechanical Coupling (TMC), 3D Data Matching	36, 1, 65-77	10.18280/ts.360109	Wang, S., Hu, Y.Z., Liu, N. (2019). Signal separation of phase-sensitive optical time-domain reflectometry considering thermo-mechanical coupling and 3D data matching. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 65-77. https://doi.org/10.18280/ts.360109
67	Kumar, K., Mishra, R.K., Kumar, K., Mishra, R.K.	A robust mRMR based pedestrian detection approach using shape descriptor	Classifier, Feature Selection, HOG, HSG, Pedestrian Detection, SVM	36, 1, 79-85	10.18280/ts.360110	Kumar, K., Mishra, R.K. (2019). A robust mRMR based pedestrian detection approach using shape descriptor. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 79-85. https://doi.org/10.18280/ts.360110
68	Reddy, U.J., Reddy, B.R.V.R., Reddy, B.E.	Recognition of lung cancer using machine learning mechanisms with fuzzy neural networks	Pre-Processing, Binarization, Segmentation, Feature Extraction, Neural Network, Lung Cancer Detection	36, 1, 87-91	10.18280/ts.360111	Reddy, U.J., Reddy, B.R.V.R., Reddy, B.E. (2019). Recognition of lung cancer using machine learning mechanisms with fuzzy neural networks. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 87-91. https://doi.org/10.18280/ts.360111
69	Qin, J.L., Shang, S.P.	Design and application of ultrasonic measurement systems for akashiwo sanguinea	Ultrasonic Measurement, Akashiwo Sanguinea (A. Sanguinea), Acoustic Doppler Velocimeter (ADV), Development Board (DB), Integrated Backscattered Strength (IBS), Algae Cell Concentration	36, 1, 93-101	10.18280/ts.360112	Qin, J.L., Shang, S.P. (2019). Design and application of ultrasonic measurement systems for Akashiwo Sanguinea. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 93-101. https://doi.org/10.18280/ts.360112

70	Ren, J., Huang, S.Y., Song, W., Han, J.	A novel indoor positioning algorithm for wireless sensor network based on received signal strength indicator filtering and improved Taylor series expansion	Wireless Sensor Network (WSN), Received Signal Strength Indicator (RSSI), Indoor Positioning, Taylor Series Expansion (TSE), Positioning Accuracy	36, 1, 103-108	10.18280/ts.360113	Ren, J., Huang, S.Y., Song, W., Han, J. (2019). A novel indoor positioning algorithm for wireless sensor network based on received signal strength indicator filtering and improved Taylor series expansion. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 103-108. https://doi.org/10.18280/ts.360113
71	Bikku, T., Paturi, R.	Frequency domain steganography with reversible texture combination	Texture Combination, Steganography, Embedding, Steganalysis, Discrete Cosine Transform	36, 1, 109-117	10.18280/ts.360114	Bikku, T., Paturi, R. (2019). Frequency domain steganography with reversible texture combination. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 109-117. https://doi.org/10.18280/ts.360114
72	Babu, K.S., Vemuru, S.	Spectrum signals handoff in LTE cognitive radio networks using reinforcement learning	Cognitive Radio Network, Long-Term Evolution, Spectrum Handoff, Galactic Swarm Optimization, Reinforcement Learning	36, 1, 119-125	10.18280/ts.360115	Babu, K.S., Vemuru, S. (2019). Spectrum signals hand-off in LTE cognitive radio networks using reinforcement learning. <i>Traitement du Signal</i> , Vol. 36, No. 1, pp. 119-125. https://doi.org/10.18280/ts.360115
73	Dai, C.Q., Lv, Y.L., Long, Y.X., Sui, H.T.	A novel image enhancement technique for tunnel leakage image detection	Tunnel Leakage Image, Wavelet Transform, Image Enhancement	35, 3-4, 209-222	10.3166/TS.35.209-222	Dai, C.Q., Lv, Y.L., Long, Y.X., Sui, H.T. (2018). A novel image enhancement technique for tunnel leakage image detection. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 209-222. https://doi.org/10.3166/TS.35.209-222
74	Song, X.R., Gao, S., Chen, C.B.	A novel vehicle feature extraction algorithm based on wavelet moment	Feature Extraction, Modified Hu Invariant Moment, Wavelet Moment, Target Recognition	35, 3-4, 223-242	10.3166/TS.35.223-242	Song, X.R., Gao, S., Chen, C.B. (2018). A novel vehicle feature extraction algorithm based on wavelet moment. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 223-242. https://doi.org/10.3166/TS.35.223-242
75	Jian, C.F., Lu, T., Xiang, X.Y., Zhang, M.Y.	An improved mixed gaussian-based background modelling method for fast gesture segmentation of mobile terminals	Mixed Gaussian Model, Background Modelling, Learning Rate, Gesture Segmentation	35, 3-4, 243-252	10.3166/TS.35.243-252	Jian, C.F., Lu, T., Xiang, X.Y., Zhang, M.Y. (2018). An improved mixed gaussian-based background modelling method for fast gesture segmentation of mobile terminals. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 243-252. https://doi.org/10.3166/TS.35.243-252
76	Wang, S., Hu, Y.Z.	Binocular visual positioning under inhomogeneous, transforming and fluctuating media	Inhomogeneous Media, Transforming Media, Media Fluctuation, Binocular Visual Positioning, Uncertainty, Kalman Filter, Cloud Model	35, 3-4, 253-276	10.3166/TS.35.253-276	Wang, S., Hu, Y.Z. (2018). Binocular visual positioning under inhomogeneous, transforming and fluctuating media. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 253-276. https://doi.org/10.3166/TS.35.253-276
77	Zeng, X.X., Shao, Z.H., Lin, W.Z., Luo, H.B.	Orientation holes positioning of printed board based on LS-Power spectrum density algorithm	Orientation Holes Positioning, LS-Power Spectrum Density (LS-PSD), Image Processing Technology, Region of Interest (ROI)	35, 3-4, 277-288	10.3166/TS.35.277-288	Zeng, X.X., Shao, Z.H., Lin, W.Z., Luo, H.B. (2018). Orientation holes positioning of printed board based on LS-Power spectrum density algorithm. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 277-288. https://doi.org/10.3166/TS.35.277-288
78	He, L.L., Zhu, H., Gao, Z.X.	A novel asphalt pavement crack detection algorithm based on multi-feature test of cross-section image	Asphalt Pavement, Crack Detection, Multi-feature Test, Cross-section Image	35, 3-4, 289-302	10.3166/TS.35.289-302	He, L.L., Zhu, H., Gao, Z.X. (2018). A novel asphalt pavement crack detection algorithm based on multi-feature test of cross-section image. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 289-302. https://doi.org/10.3166/TS.35.289-302
79	Wu, Q.S., Meng, P., Liu, G.	Reconstruction of 3D building model based on the information in floor plan	Floor Plan, Building Components, Space Subdivision, 3D Model Reconstruction	35, 3-4, 303-316	10.3166/TS.35.303-316	Wu, Q.S., Meng, P., Liu, G. (2018). Reconstruction of 3D building model based on the information in floor plan. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 303-316. https://doi.org/10.3166/TS.35.303-316
80	Peng, L.	A brain nuclear magnetic resonance image segmentation algorithm based on non-rigid registration	Non-rigid Registration, Brain NMR Image, Atlas Prior, Shape Knowledge	35, 3-4, 317-330	10.3166/TS.35.317-330	Peng, L. (2018). A brain nuclear magnetic resonance image segmentation algorithm based on non-rigid registration. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 317-330. https://doi.org/10.3166/TS.35.317-330
81	Fu, H.H., Xu, J., Zhang, H., Zhang, M., Xu, X.X.	A novel video target tracking method based on lie group manifold	Target Tracking, Lie Group, Riemannian Manifold, Particle Filtering (PF)	35, 3-4, 331-340	10.3166/TS.35.331-340	Fu, H.H., Xu, J., Zhang, H., Zhang, M., Xu, X.X. (2018). A novel video target tracking method based on lie group manifold. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 331-340. https://doi.org/10.3166/TS.35.331-340
82	Seng, D.W., Zhang, H.Q., Fang, X.J., Zhang, X.F., Chen, J.	An improved fingerprint image matching and multi-view fingerprint recognition algorithm	Fingerprint Recognition, Fingerprint Image, Direction Field, Matching, Multi-View	35, 3-4, 341-354	10.3166/TS.35.341-354	Seng, D.W., Zhang, H.Q., Fang, X.J., Zhang, X.F., Chen, J. (2018). An improved fingerprint image matching and multi-view fingerprint recognition algorithm. <i>Traitement du Signal</i> , Vol. 35, No. 3-4, pp. 341-354. https://doi.org/10.3166/TS.35.341-354
83	Kumar, I., Sachan, V., Shankar, R., Mishra, R.K.	An investigation of wireless S-DF hybrid satellite terrestrial relaying network over time selective fading channel	Node Mobility, Selective Decode-forward, Space-time Block Code, Hybrid Satellite Network, Pairwise Error Probability	35, 2, 103-120	10.3166/TS.35.103-120	Kumar, I., Sachan, V., Shankar, R., Mishra, R.K. (2018). An investigation of wireless S-DF hybrid satellite terrestrial relaying network over time selective fading channel. <i>Traitement du Signal</i> , Vol. 35, No. 2, pp. 103-120. https://doi.org/10.3166/TS.35.103-120
84	Panigrahi, S.K., Gupta, S.	Automatic ranking of image thresholding techniques using consensus of ground truth	Consensus Ground Truth, Edge Mismatch Error (EMM), F-measure (FM), Modified Hausdorff Distance (HD), Object Level Consistency Error (OCE), Relative Area Error (RAE)	35, 2, 121-136	10.3166/TS.35.121-136	Panigrahi, S.K., Gupta, S. (2018). Automatic ranking of image thresholding techniques using consensus of ground truth. <i>Traitement du Signal</i> , Vol. 35, No. 2, pp. 121-136. https://doi.org/10.3166/TS.35.121-136
85	Huang, Y.L., Meng, S.Y., Li, X.S., Fan, W.Y.	A classification method for wood vibration signals of Chinese musical instruments based on GMM and SVM	Gaussian Mixture Model (GMM), Gabor, Chinese Musical Instruments, Support Vector Machine (SVM)	35, 2, 137-151	10.3166/TS.35.137-151	Huang, Y.L., Meng, S.Y., Li, X.S., Fan, W.Y. (2018). A classification method for wood vibration signals of Chinese musical instruments based on GMM and SVM. <i>Traitement du Signal</i> , Vol. 35, No. 2, pp. 137-151. https://doi.org/10.3166/TS.35.137-151
86	Kadam, R.S., Kulkarni, A.	Radiation pattern of reconfigurable antenna design for portable device applications	Reconfigurable Antenna, Radiation Pattern, Portable Device	35, 2, 153-168	10.3166/TS.35.153-168	Kadam, R.S., Kulkarni, A. (2018). Radiation pattern of reconfigurable antenna design for portable device applications. <i>Traitement du Signal</i> , Vol. 35, No. 2, pp. 153-168. https://doi.org/10.3166/TS.35.153-168
87	Neelapu, R., Devi, G.L., Rao, K.S.	Deep learning based conventional neural network architecture for medical image classification	Deep Learning, Neural Networks, Medical Image Classification, Processing, CNN, SVM	35, 2, 169-182	10.3166/TS.35.169-182	Neelapu, R., Devi, G.L., Rao, K.S. (2018). Deep learning based conventional neural network architecture for medical image classification. <i>Traitement du Signal</i> , Vol. 35, No. 2, pp. 169-182. https://doi.org/10.3166/TS.35.169-182
88	Zhang, J., Li, Y.B., Liu, B.X., Wu, Y.Q., Yi, H.C.	Forward modelling of circular loop source and calculation of whole area apparent resistivity based on TEM	Circular Loop Source, Forward Modelling, Whole Area Apparent Resistivity, Geo-electric Model, Numerical Calculation, Electrical Characteristic Response	35, 2, 183-198	10.3166/TS.35.183-198	Zhang, J., Li, Y.B., Liu, B.X., Wu, Y.Q., Yi, H.C. (2018). Forward modelling of circular loop source and calculation of whole area apparent resistivity based on TEM. <i>Traitement du Signal</i> , Vol. 35, No. 2, pp. 183-198. https://doi.org/10.3166/TS.35.183-198
89	Mostefa, T., Tarak, B., Hachemi, G.	An automatic diagnosis method for an open switch fault in unified power quality conditioner based on artificial neural network	UPQC, Active Power Filter, ANN, Fault Detection, Open Switch Fault, FFT, Skewness	35, 1, 7-21	10.3166/TS.35.7-21	Mostefa, T., Tarak, B., Hachemi, G. (2018). An automatic diagnosis method for an open switch fault in unified power quality conditioner based on artificial neural network. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 7-21. https://doi.org/10.3166/TS.35.7-21
90	Devi, B.R.	Texture feature-based image searching system using wavelet transform approach	Feature Extraction, Image Searching, Pyramid Structure Wavelet Transform Model (PSWTM), Wavelet Transform, Feature-based Image Searching System (FBISS), Precision, Recall, Similarity Matching	35, 1, 23-33	10.3166/TS.35.23-33	Devi, B.R. (2018). Texture feature-based image searching system using wavelet transform approach. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 23-33. https://doi.org/10.3166/TS.35.23-33
91	Song, J.B., Song, R., Xiong, Z.	Acoustic radiation features and structural-acoustic sensitivity of channel beam	Channel Beam, Indirect Boundary Element, Structural Noise, Structural-acoustic Sensitivity	35, 1, 35-45	10.3166/TS.35.35-45	Song, J.B., Song, R., Xiong, Z. (2018). Acoustic radiation features and structural-acoustic sensitivity of channel beam. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 35-45. https://doi.org/10.3166/TS.35.35-45
92	Sachan, V., Kumar, I., Shankar, R., Mishra, R.K.	Analysis of transmit antenna selection based selective decode forward cooperative communication protocol	Multiple Input Multiple Output, Space-Time-Block-Code, Selective Decode and Forward, Pairwise Error Probability	35, 1, 47-60	10.3166/TS.35.47-60	Sachan, V., Kumar, I., Shankar, R., Mishra, R.K. (2018). Analysis of transmit antenna selection based selective decode forward cooperative communication protocol. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 47-60. https://doi.org/10.3166/TS.35.47-60

93	Huang, X.L., Zhang, T.F., Deng, Z.H., Li, Z.	Design of moving target detection and tracking system based on cortex-A7 and openCV	Behavior Analysis, Camshift, Cortex-A7, Embedded System, Target Tracking, OpenCV.	35, 1, 61-73	10.3166/TS.35.61-73	Huang, X.L., Zhang, T.F., Deng, Z.H., Li, Z. (2018). Design of moving target detection and tracking system based on cortex-A7 and OpenCV. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 61-73. https://doi.org/10.3166/TS.35.61-73
94	Choubey, H., Pandey, A.	Classification of healthy, inter-ictal and seizure signal using various classification techniques	Electroencephalogram (EEG) Signal, Levenberg Marquardt (LM) Classifier, Epileptic Seizure Detection, k-nearest Neighbour (kNN), Artificial Neural Network (ANN), and Variance.	35, 1, 75-84	10.3166/TS.35.75-84	Choubey, H., Pandey, A. (2018). Classification of healthy, inter-ictal and seizure signal using various classification techniques. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 75-84. https://doi.org/10.3166/TS.35.75-84
95	Lu, M., Li, H., Zhang, Y.F., Xie, Q., Cai, X.H.	Vector control of brushless double fed generator based on control winding orientation on smooth switch from stand-alone mode to grid-tied mode	Brushless Double Fed Induction Generator (BDFIG), Power Winding (PW), Control Winding (CW), Field-orientation.	35, 1, 85-95	10.3166/TS.35.85-95	Lu, M., Li, H., Zhang, Y.F., Xie, Q., Cai, X.H. (2018). Vector control of brushless double fed generator based on control winding orientation on smooth switch from stand-alone mode to grid-tied mode. <i>Traitement du Signal</i> , Vol. 35, No. 1, pp. 85-95. https://doi.org/10.3166/TS.35.85-95
96	Rao, D.K., Srinivas, K.	An analysis of feature identification for tool wear monitoring by using acoustic emission	Hardturning, Tool Condition Monitoring, Dominant Features, Acoustic Emission, Grey Relation Analysis	34, 3-4, 117-135	10.3166/TS.35.117-135	Rao, D.K., Srinivas, K. (2017). An analysis of feature identification for tool wear monitoring by using acoustic emission. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 117-135. https://doi.org/10.3166/TS.35.117-135
97	Raguram, L.S.B., Shanmugam, V.M.	Deep belief networks for phoneme recognition in continuous Tamil speech—an analysis	Deep Belief Networks, Phoneme Recognition, Speech Recognition, Artificial Neural Networks, Deep Learning, Tamil Speech, Acoustic Model, Continuous Speech, Bernoulli-Bernoulli, Gaussian-Bernoulli	34, 3-4, 137-151	10.3166/TS.35.137-151	Raguram, L.S.B., Shanmugam, V.M. (2017). Deep belief networks for phoneme recognition in continuous Tamil speech—an analysis. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 137-151. https://doi.org/10.3166/TS.35.137-151
98	Hu, T., Lv, J., Xie, Q.S., Sun, H., Yuan, Q.N.	A novel human behaviour information coding method based on eye-tracking technology	Information Identification, Information Coding, Motion Capture, Fixation Duration, Virtual Reality	34, 3-4, 153-173	10.3166/TS.35.153-173	Hu, T., Lv, J., Xie, Q.S., Sun, H., Yuan, Q.N. (2017). A novel human behaviour information coding method based on eye-tracking technology. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 153-173. https://doi.org/10.3166/TS.35.153-173
99	Gopil, A.P., Narayana, V.L.	Protected strength approach for image steganography	Steganography, Cryptography, Protected Strength, Embedding, Decomposing, Stegoimage	34, 3-4, 175-181	10.3166/TS.35.175-181	Gopil, A.P., Narayana, V.L. (2017). Protected strength approach for image steganography. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 175-181. https://doi.org/10.3166/TS.35.175-181
100	Wang, J., Ding, R., Yang, Y.D., Pan, S.	A novel signal processing technique for travelling detection pulse radar in 3D geographic scene	Pulse Radar, Traveling Detection, Geographic Scene, Signal Processing, Speed Compensation	34, 3-4, 183-196	10.3166/TS.35.183-196	Wang, J., Ding, R., Yang, Y.D., Pan, S. (2017). A novel signal processing technique for travelling detection pulse radar in 3D geographic scene. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 183-196. https://doi.org/10.3166/TS.35.183-196
101	Narayana, V.L., Gopi, A.P.	Visual cryptography for gray scale images with enhanced security mechanisms	Visual Cryptography, Dwt, Digital Watermarking	34, 3-4, 197-208	10.3166/TS.35.197-208	Narayana, V.L., Gopi, A.P. (2017). Visual cryptography for gray scale images with enhanced security mechanisms. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 197-208. https://doi.org/10.3166/TS.35.197-208
102	Bi, Q.L., Liu, Z.J., Wang, M.H., Lai, M.L., Xiao, L.M., Yan, Y.P., Liu, X.G.	An automatic camera calibration method based on checkerboard	Computer Vision, Camera Calibration, Checkerboard, Corner Recognition, Corner Matching	34, 3-4, 209-226	10.3166/TS.35.209-226	Bi, Q.L., Liu, Z.J., Wang, M.H., Lai, M.L., Xiao, L.M., Yan, Y.P., Liu, X.G. (2017). An automatic camera calibration method based on checkerboard. <i>Traitement du Signal</i> , Vol. 34, No. 3-4, pp. 209-226. https://doi.org/10.3166/TS.35.209-226
103	Deore, S. P., Pravin, A.	Ensembling: Model of histogram of oriented gradient based handwritten devanagari character recognition system	Devanagari Character, K-NN, SVM, NN, HwCR	34, 1-2, 7-20	10.3166/TS.34.7-20	Deore, S. P., Pravin, A. (2017). Ensembling: Model of histogram of oriented gradient based handwritten devanagari character recognition system. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 7-20. https://doi.org/10.3166/TS.34.7-20
104	Rout, G., Roy, J.S.	A new student-teacher mentoring algorithm for online feedback using statistical signal processing	Online Feedback, Student-Teacher Mentoring, Mentoring Algorithm, Statistical Signal Processing	34, 1-2, 21-32	10.3166/TS.34.21-32	Rout, G., Roy, J.S. (2017). A new student-teacher mentoring algorithm for online feedback using statistical signal processing. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 21-32. https://doi.org/10.3166/TS.34.21-32
105	Yang, K., Xue, L.Y., Yin, K., Liu, S., Meng, J.	Microbubble generation and trapping induced by femtosecond laser and acoustic signal analysis	Femtosecond Laser, Microbubble, Self-Focusing, Laser-Induced Optical Breakdown (LIOB), High-Speed Camera, High-Frequency Ultrasonic Imager	34, 1-2, 33-44	10.3166/TS.34.33-44	Yang, K., Xue, L.Y., Yin, K., Liu, S., Meng, J. (2017). Microbubble generation and trapping induced by femtosecond laser and acoustic signal analysis. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 33-44. https://doi.org/10.3166/TS.34.33-44
106	Sailaja, R., Rupa, C., Chakravarthy, A.S.N.	Robust and indiscernible multimedia watermarking using light weight mutational methodology	Three Lines Maximum, Lifting Wavelet Transform, Singular Value Decomposition, Peak Signal To Noise Ratio, Normalized Correlatio	34, 1-2, 45-55	10.3166/TS.34.45-55	Sailaja, R., Rupa, C., Chakravarthy, A.S.N. (2017). Robust and indiscernible multimedia watermarking using light weight mutational methodology. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 45-55. https://doi.org/10.3166/TS.34.45-55
107	Tian, H.Q., Dang, X.Q., Wang, J.H., Wu, D.M.	Registration method for three-dimensional point cloud in rough and fine registrations based on principal component analysis and iterative closest point algorithm	Intraoperative Registration, Principal Component Analysis (PCA), Iterative Closest Point (ICP) Algorithm, Point Cloud, Gaussian Noise	34, 1-2, 57-75	10.3166/TS.34.57-75	Tian, H.Q., Dang, X.Q., Wang, J.H., Wu, D.M. (2017). Registration method for three-dimensional point cloud in rough and fine registrations based on principal component analysis and iterative closest point algorithm. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 57-75. https://doi.org/10.3166/TS.34.57-75
108	Benkaddour, M.K., Boumoua, A.	Feature extraction and classification using deep convolutional neural networks, PCA and SVC for face recognition	Biometrics, Face Recognition, Feature Extraction, Convolutional Neural Network, CNN, Support Vector Machines (SVM), Svc, Principal Component Analysis, PCA	34, 1-2, 77-91	10.3166/TS.34.77-91	Benkaddour, M.K., Boumoua, A. (2017). Feature extraction and classification using deep convolutional neural networks, PCA and SVC for face recognition. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 77-91. https://doi.org/10.3166/TS.34.77-91
109	Jiang, C.H., Zhang, C., Zhang, Y.H., Xu, H.	An improved particle swarm optimization algorithm for parameter optimization of proportional-integral-derivative controller	Flying Time, Adaptive Weight, Constriction Factor, Improved Particle Swarm Optimization (IPSO), Proportional-Integral-Derivative (PID) Controller	34, 1-2, 93-110	10.3166/TS.34.93-110	Jiang, C.H., Zhang, C., Zhang, Y.H., Xu, H. (2017). An improved particle swarm optimization algorithm for parameter optimization of proportional-integral-derivative controller. <i>Traitement du Signal</i> , Vol. 34, No. 1-2, pp. 93-110. https://doi.org/10.3166/TS.34.93-110