

ISSPIT 2017 - Bilbao, Spain University of Deusto Auditorio Icaza (La Comercial Building) Registration

 DAY 1: Monday, December 18th:
 9.30 - 10.00: Registration

 DAY 2: Tuesday, December 19th:
 9.30 - 10.00: Registration

 DAY 3: Wednesday, December 20th:
 9.30 - 10.00: Registration

Technical program: Synopsis

| Time | Day 1 | Day 2 | Day 3 |
|---------------|-------------------------------------|--|--|
| 9.30 - 10.00 | Registration | Registration | Registration |
| 10:00 - 10:30 | PLENARY talk Prof. Hichem Frigui | PLENARY talk Prof. F. Lupiañez | PLENARY talk Prof. Pablo Garcia Bringas |
| 10:30 - 11:30 | Digital Signal Processing | Computational Methods | Bio-Informatics |
| 11:30 - 11:45 | Coffee Break | Coffee Break | Coffee Break |
| 11:45 - 13:00 | Digital Signal Processing | Computational Methods | Bio-Informatics |
| 13:00 - 14:00 | Lunch | Lunch | Bio-Informatics |
| 14:00 - 16:00 | Digital Signal Processing | Computational Methods | FINAL talk Prof. A. Elmaghraby (14:00-14:30) |
| 16:00 - 16:15 | Coffee Break | Coffee Break | |
| 16:15 - 17:45 | Digital Signal Processing | Computational Methods | |
| | 19:00 Guided tour of Bilbao | 19:30 - 23:00 Gala dinner - Abando Hotel | |

Oral presentations:

10 minutes' presentation and 5 minutes' questions in "Auditorio Icaza" room. Online/Video session:

December 20th from 10:45 - 14:00. Video presentation 7 - 10 minutes.



Technical program: Schedule

DAY 1: Monday, December 18th Session: Digital Signal Processing, Image processing, Signals, Sensors, Devices Time: 10:30 - 12:00

| Code | Title | Registered author |
|------------|---|------------------------|
| 1570390825 | Local Linear Predictive Coding for High Resolution Time- Frequency Analysis | Fumihiko Ishiyama |
| 1570391189 | Sequential Combinations of Multiple Adaptive Lattice Filters in Cognitive Radio Channel Identification | Mehmet T. Ozden |
| 1570399658 | An Ensemble Feature Selection Method for Biomarker Discovery | Hichem Frigui |
| 1570396570 | An Adaptive Background Subtraction Scheme for Video Surveillance Systems | Nithin Varghese George |
| 1570397059 | Blind Forensics Tool of Falsification for RAW Images | Thi Ngoc Canh Doan |
| 1570398800 | Examining Feature Vector for Phoneme Recognition | Bozena Kostek |

Coffee break: 11:30 - 11:45

Session: Digital Signal Processing, Image processing, Signals, Sensors, Devices Time: 11:45 - 13:30

| Code | Title | Registered author |
|--------------|---|----------------------|
| 1570398321 | Study on Spectral Efficiency for STBC-CPM with Two and Four Transmit Antennas | Kazuyuki Morioka |
| 1570398579 | The Gestalt Interest Points Distance Feature for Compact and Accurate Image Description | Markus Hörhan |
| 1570398663 | Jamming Signals Classification Using Convolutional Neural Network | Yanlong Zhao |
| 1570398668 | Face Recognition by Thermal Video Using 3D Information and Vesselness Features | K. T. Nguyen |
| 1570398770 | Experimental Demonstration of Autonomous Spectrum Balancing in G.fast | Martin Wolkerstorfer |
| 1570403830 | Estimating the Trajectory of a Thrown Object from Video Signal with Use of Genetic Programming | Ruslan Gayanov |
| 1570397254 | Radar Environment Characterization by Signal Processing Techniques | Gaspare Galati |
| Lunch Break: | 13:00 - 14:00 | |



Session: Digital Signal Processing, Image processing, Signals, Sensors, Devices Time: 14:00 - 16:00

| Code | Title | Registered author |
|------------|---|-----------------------------|
| 1570398802 | Improved DoA Estimation with Application to Bearings- Only Acoustic Source Localization | José Antonio Apolinário Jr. |
| 1570400533 | A Genetic Algorithm for Compressive Sensing Sparse Recovery | Miguel Heredia Conde |
| 1570398604 | Noise Characteristics in Extreme Shallow Water with Relation to Ship Maneuvering Parameters | Ammar Aljuhne |
| 1570398610 | On the Evaluation of Cost Functions for Parameter Optimization of a Multiscale Shape Descriptor | Fátima N. Sombra Medeiros |
| 1570398622 | Multiple Face Tracking Method in the Wild Using Color Histogram Features | Hyuk Jin Kwon |
| 1570398703 | S-Rep Model for Fundus Image Analysis | Luca Surace |
| 1570398795 | Image Tone Mapping Approach Using Essentially Non- Oscillatory Bi-quadratic Interpolations Combined with a Weighting Coefficients Strategy | Ba Chien Thai |

Coffee break: 16:00 - 16:15

Session: Digital Signal Processing, Image processing, Signals, Sensors, Devices Time: 16:15 - 18:00

| Code | Title | Registered author |
|------------|---|----------------------|
| 1570403386 | Optimal Signaling for a Given Constellation Under Average Symbol Energy and Bit Rate Constraints | Berkan Dulek |
| 1570403664 | Detecting Maneuvers in Maritime Observation Data with CUSUM | Arne Lamm |
| 1570403753 | Electric Current Prediction for the Nonlinear High Power Loads Using Narx Neural Networks | Manuela Panoiu |
| 1570403865 | Revisited Histogram Equalization as HDR Images Tone Mapping Operators | Anas Husseis |
| 1570410858 | Automatic Colon Polyp Detection Using Convolutional Encoder-Decoder Model | Ornela Bardhi |
| 1570398572 | Joint Blind Source Separation and Declipping: A Geometric Approach for Time Disjoint Sources | Alastair Turl |
| 1570398741 | Human Gait Recognition Based on Frontal View Using Kinect Features and Orthogonal Least Square Selection | Nooritawati Md Tahir |
| 1570403777 | Speech Enhancement in Modulation Domain Using Discriminative Random Field | Ajey Saligrama |

Guided tourist visit of Bilbao: 19:00



DAY 2: Tuesday, December 19th

Session: Computational Methods, Algorithms, Internet of Things, Cloud, Communications, Procedures

Time: 10:30 - 11:30

| Code | Title | Registered Author |
|------------|---|--------------------------|
| 1570385610 | Distributed Massive MIMO for Estimation of a Correlated Source Vector in Sensor Networks | Jordi Serra |
| 1570385776 | Fast Deep Pyramid DPM Object Detection with Region Proposal Networks | Bappaditya Dey |
| 1570393819 | Sparse Framework for Hybrid TDOA/DOA Multiple Emitter Localization | Anastasia Lavrenko |
| 1570393856 | Impact of Impulsive Noise on 4G OFDM and SCFDMA Systems | Hasan Saed Abuhilal |

Coffee break: 11:30 - 11:45

Session: Computational Methods, Algorithms, Internet of Things, Cloud, Communications, Procedures

| Time: 11:45 - 1 Code | 3:00 Title | Registered Author |
|-------------------------|--|------------------------|
| 1570394111 | A Quaternion-Based Approach to Interference Alignment with Alamouti Coding | Jacobo Fanjul |
| 1570396535 | Online Least Angle Regression Algorithm for Sparse System Identification | Nithin Varghese George |
| 1570405019 | Synchronisation and Equalisation of an FBMC/OQAM System by a Polynomial Matrix Pseudo-Inverse | Amr Nagy |
| 1570398315 | Coding Efficiency Improvement by Wavelet Super-Resolution Restoration for 8K UHDTV Broadcasting | Yasutaka Matsuo |
| 1570398424 | LMS-Based Leader Selection for Distributed Estimation | Sander Ulp |

Lunch Break: 13:00 - 14:00



Session: Computational Methods, Algorithms, Internet of Things, Cloud, Communications, Procedures

Time: 14:00 - 16:00

| Code | Title | Registered author |
|------------|--|----------------------|
| 1570398720 | Specific Emitter Identification Using Fractal Features Based on Box-counting Dimension and Variance Dimension | Longwen Wu |
| 1570398789 | Influence of Transceiver Imperfections to Digital Pre-distortion Linearization - Application to 5G Waveforms | Roman Marsalek |
| 1570404177 | A Null-Space-Based Genetic Algorithm for Constrained L1 Minimization | Miguel Heredia Conde |
| 1570404961 | Towards Recommending Diverse Seasonal Cooking Recipes: A Preliminary Study Based on Monthly View Data | Sanjo Satoshi |
| 1570398523 | A Standard Decision Format Using Provenance | Cheryl Putnam |
| 1570398768 | Efficient Lossy Compression of Ultrasound Data | Petr Kleparnik |
| 1570398799 | Anti-fraud System on the Basis of Data Mining Technologies | Konstantin Mironov |

Coffee break: 16:00 - 16:15

Session: Computational Methods, Algorithms, Internet of Things, Cloud, Communications, Procedures

Time: 16:30 - 18:00

| Code | Title | Registered author |
|----------------|---|-----------------------|
| 1570401329 | Information Theory of Detection in Radar Systems | Shengkai Xu |
| 1570403509 | Sparse Representation Based Classification with Intra-Class Variation Dictionary on Symmetric Positive Definite Matrices | Hiroyuki Kasai |
| 1570403818 | Algorithm Modification of the Level-by-Level Approximation to the Minimum Route | Konstantin Mironov |
| 1570403859 | A DSS Model for IoT-based Intelligent Transportation Systems | Zacharenia Garofalaki |
| 1570403892 | LcwtNet: Lifting Complex Wavelet Layers for Constructing a Compact DNN Model | Shigeru Takano |
| 1570398727 | EMOSIC - An Emotion Based Music Player for Android | Manasi Arun |
| Gala dinner: 1 | 9:30 - 23:00 | |

Abando Hotel (address: Colon de Larreategui, 9, 48001 Bilbao). "Blueizar" restaurant



DAY3: Wednesday, December 20th

Session: Bio-Informatics, Biological Signals, Medical and Health Related Topics Time: 10:30 - 11:30

| Code | Title | Registered author |
|------------|--|---------------------------|
| 1570398521 | Speech Emotion Recognition on Mobile Devices Based on Modulation Spectral Feature Pooling and Deep Neural Networks | Anderson Avila |
| 1570379860 | A Reduced Complexity MFCC-based Deep Neural Network Approach for Speech Enhancement | Ryan Razani |
| 1570381588 | Denoising ECG Signal by Complete EEMD Adaptive Noise | Fakheraldin Y. O. Abdalla |
| 1570398732 | Investigating the Impact of the Training Data Volume for Robust Speech Recognition Using Multi-Task Learning | Gueorgui Pironkov |

Coffee break: 11:30 - 11:45

Session: Bio-Informatics, Biological Signals, Medical and Health Related Topics Time: 11:45 - 14:00

| Code | Title | Registered author |
|------------|---|----------------------|
| 1570398805 | Reconstruction of 3D-Movement of ICD Leads from Clinical- Routine X-Ray Movies | Jens Kirchner |
| 1570398811 | A New Approach to Two-Dimensional Filter for Segmenting Retinal Vascular Network from Fundus Images of Premature Born | Julio Ibarra-Fiallo |
| 1570403556 | Lung Tumour Motion Tracking Using a Weighted Optical Flow Algorithm with Linear Accelerator Gantry Rotation | Stephen Pistorius |
| | | |
| 1570403812 | The e-Health Solution in Slovak Republic | Martina Drahošová |
| 1570397828 | Influence on Electroencephalogram at the Prefrontal Cortex Due to Tinnitus and Sounds | Masashi Matsuoka |
| 1570397850 | Evaluation of Stress Accumulation Using the EEG and NIRS | Takahiro Asano |
| 1570413685 | ViveWeb: Social Network for Interaction of Experienced Among Elderly Persons | Ibon Oleagordia Ruiz |
| 1570398730 | Cross-Corpus Arabic and English Emotion Recognition | Ali H. Meftah |



DAY 3: Wednesday, December 20th

Room 2 Online Session

Time: 10:45 - 14:00

| Code | Title | Registered author |
|------------|---|---------------------------|
| 1570398796 | Analysis of Nonlinear Rational Filter | Zhenlong Xiao |
| 1570403659 | Low Complexity Energy-Efficient Multilevel Cluster-Based Cooperative Spectrum Sensing in Cognitive Radio Networks | Esam Abdel-Raheem |
| 1570403849 | Small Scale Mobile Energy Management System Using Raspberry Pi and Python | David C Ball |
| 1570399305 | Frequency-Domain Information Along with LSTM and GRU Methods for Histopathological Breast-Image Classification | Abdullah Nahid |
| 1570403691 | Load Balancing in 5G Cloud Radio Access Networks Supporting IoT Communications for Smart Communities | Melody Moh |
| 1570403876 | Tiled Time Delay Estimation in Mobile Cloud Computing Environments | Ruairí de Fréin |
| 1570398627 | Doppler Tolerant Modified P4 Code (DTMP4 Code) for Pulse Compression Radar | Neon Sison de Jesus |
| 1570398405 | A Machine Learning Algorithm for the Automatic Detection of Ictal Activity Using Energy and Synchronization Features | Marwa Qaraqe |
| 1570404603 | Four LTE Uplink Scheduling Algorithms Performance Metrics: Delay, Throughput, and Fairness Tradeoff | Ahmed Hassebo |
| 1570404130 | Real Time Underwater Embedded System Architectures | Reda Ammar |
| 1570413741 | Cognitive Performance Application | Ahmed Desoky |
| 1570403701 | A Novel Approach for Classification of Hand Movements Using Surface EMG Signals | Muhammad Zia ur Rehman |
| 1570417460 | Simulation and Development of a System for the Analysis of Pressure Ulcers | Cristián Castillo |
| 1570410497 | Multimodal Biometric Systems: A Systematic Review | Roman Yampolskiy |
| 1570404040 | A FPGA Based Ultrasonic Rail Flaw Detection System | Wei Li |
| 1570398685 | A Spin Noise Spectrometer Based on FPGA | Wei Li |
| 1570397482 | End-user's SLA-Aware Consolidation in Cloud Data Centers | Walaa Sheta |