## Table of Contents

**Foreword**.................................................................................................................................................................................xiii

**Welcome Message from the SIT Track Chair**.................................................................................................................................xiv

**Welcome Message from the WECA Track Chairs**......................................................................................................................xv

**Welcome Message from the MIRA Track Chair**.........................................................................................................................xvi

**Welcome Message from the COMPLEX NETWORKS Workshop Chair**...........................................................................................xvii

**Welcome Message from the CITIMA Workshop Chairs**...........................................................................................................xviii

**Welcome Message from the QUAMUS Workshop Chairs**...........................................................................................................xix

**Welcome Message from the IEB Workshop Chairs**..................................................................................................................xx

**Welcome Message from the IWCA Workshop Chairs**..................................................................................................................xxi

**Welcome Message from the IWSAC Workshop Chairs**.............................................................................................................xxii

**Welcome Message from the OSIEO Workshop Chairs**................................................................................................................xxiii

**Welcome Message from the KARE Workshop Chairs**..............................................................................................................xxiv

**Welcome Message from the BigCVEn Workshop Chairs**...........................................................................................................xxv

**Welcome Message from the VICTA Workshop Chairs**..............................................................................................................xxvi

**Organizing Committees**.................................................................................................................................................................xxvii

**Program Committees**....................................................................................................................................................................xxviii

**Acknowledgement**............................................................................................................................................................................xl

**Keynotes**......................................................................................................................................................................................xli

---

**Track: Signal Image Technology (SIT)**

An Algorithm Based on Fuzzy Logic for Text-Independent Fongbe Speech Segmentation .................................................................1

*Fréjus A. A. Laleye, Eugène Cokou Ezin, and Cina Motamed*

Bag-of-Visual Words Codebook Development for the Semantic Content Based Annotation of Images........................................................................................................................................................................7

*Abass A. Olaode, Golshah Naghdy, and Catherine A. Todd*

Fast Intra Coding Based on Reference Samples Similarity in HEVC ..................................................................................................15

*Qibing Jiang and Jechang Jeong*

Wrinkle Image Registration for Serial Microscopy Sections ........................................................................................................23

*Xì Chen, Qiwei Xie, Lijun Shen, and Hua Han*
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword Based Information Retrieval System for Urdu Document Images</td>
<td>27</td>
</tr>
<tr>
<td>Raashid Hussain, Haris Ahmad Khan, Imran Siddiqi, Khurram Khurshid, and Asif Masood</td>
<td></td>
</tr>
<tr>
<td>An Optimal Performance Investigation for Bilateral Filter under Four Different Image Types</td>
<td>34</td>
</tr>
<tr>
<td>Wanlapha Phummara, Kriengkri Langampol, Wilaiporn Lee, and Vorapoj Pattanavijit</td>
<td></td>
</tr>
<tr>
<td>Applying Non Linear Approach for ECG Denoising and Waves Localization</td>
<td>42</td>
</tr>
<tr>
<td>Ouadi Beya, Mohamad Mazen Hittawe, Taleh Alashkar, Eric Fauvet, and Olivier Laligant</td>
<td></td>
</tr>
<tr>
<td>Battery Consumption of Smartphone Sensors</td>
<td>48</td>
</tr>
<tr>
<td>Zoltan Horvath and Ilidko Jenak</td>
<td></td>
</tr>
<tr>
<td>Daylight Spectrum Estimation from Hyper-and Multispectral Image without Area Extraction</td>
<td>53</td>
</tr>
<tr>
<td>Eiji Kaneko, Hirofumi Aoki, and Masato Tsukada</td>
<td></td>
</tr>
<tr>
<td>Video Script Identification Using a Combination of Textural Features</td>
<td>61</td>
</tr>
<tr>
<td>Zumra Malik, Ali Mirza, Akram Bennour, Imran Siddiqi, and Chawki Djedd</td>
<td></td>
</tr>
<tr>
<td>Estimation of Aboveground Biomass from Satellite Data Using Quaternion-Based Texture</td>
<td>68</td>
</tr>
<tr>
<td>Cedrigue Djiongo, Serge Moto Mpong, and Olivier Monga</td>
<td></td>
</tr>
<tr>
<td>Signature Verification for Offline Skilled Forgeries Using Textural Features</td>
<td>76</td>
</tr>
<tr>
<td>Chawki Djeddi, Imran Siddiqi, Somaya Al-Maadeed, Labiba Souici-Meslati, Abdeljalil Gattal,</td>
<td></td>
</tr>
<tr>
<td>and Abdel Ennaji</td>
<td></td>
</tr>
<tr>
<td>Clustering Based Fingerprint Indexing Using Triangle Spiral</td>
<td>81</td>
</tr>
<tr>
<td>Ashima Jain and Munaga V N K Prasad</td>
<td></td>
</tr>
<tr>
<td>Exploiting Change Blindness for Image Compression</td>
<td>89</td>
</tr>
<tr>
<td>Steven Le Moan and Ivar Farup</td>
<td></td>
</tr>
<tr>
<td>Detection and Isolation of Switches in Point Clouds of the German Railway Network</td>
<td>96</td>
</tr>
<tr>
<td>Jean-Jacques Ponciano, Claire Prudhomme, Burkhard Tietz, and Frank Boochs</td>
<td></td>
</tr>
<tr>
<td>Complexity and Distortion Analysis on Methods for Unrolling 3D to 2D Fingerprints</td>
<td>103</td>
</tr>
<tr>
<td>Cynthia Sthembile Mlambo and Yaseen Moolla</td>
<td></td>
</tr>
<tr>
<td>An Adaptive Codebook Model for Change Detection with Dynamic Background</td>
<td>110</td>
</tr>
<tr>
<td>Tapas Badal, Neeta Nain, Musthaq Ahmed, and Vishakha Sharma</td>
<td></td>
</tr>
<tr>
<td>Facial Emotion Recognition Based on Facial Motion Stream Generated by Kinect</td>
<td>117</td>
</tr>
<tr>
<td>Nattawat Chanthaphan, Keiichi Uchimura, Takami Satonaka, and Tsuyoshi Makioka</td>
<td></td>
</tr>
<tr>
<td>A Person Re-Identification System for Mobile Devices</td>
<td>125</td>
</tr>
<tr>
<td>George A. Cushen</td>
<td></td>
</tr>
<tr>
<td>Enhancement of Latent Fingerprint Images with Segmentation Perspective</td>
<td>132</td>
</tr>
<tr>
<td>Abir Raza Baig, Ilyas Huqqani, and Khurram Khurshid</td>
<td></td>
</tr>
<tr>
<td>Rain Streaks Removal by Using Composite Method</td>
<td>139</td>
</tr>
<tr>
<td>Fitri Utaminingrum and I Komang Somawirata</td>
<td></td>
</tr>
<tr>
<td>Image Based Contamination Detection on Hard Disk Head Gimbal Assembly</td>
<td>143</td>
</tr>
<tr>
<td>Jirarat Leamsaard, Paisarn Muneesawang, and Frode Eika Sandnes</td>
<td></td>
</tr>
<tr>
<td>An Obstacle Categorization System for Visually Impaired People</td>
<td>147</td>
</tr>
<tr>
<td>Bogdan Mocanu, Ruxandra Tapu, and Titus Zaharia</td>
<td></td>
</tr>
<tr>
<td>Automatic Detection and Tracking of Animal Sperm Cells in Microscopy Images</td>
<td>155</td>
</tr>
<tr>
<td>Ouadi Beya, Mazen Hittawe, Désirè Sidibé, and Fabrice Mériaudeau</td>
<td></td>
</tr>
</tbody>
</table>
Partial Face Recognition Based on Template Matching
Soodeh Nikan and Majid Ahmadi

Video-Based People Fall Detection via Homography Mapping of Foreground Polygons
from Overlapping Cameras
Mikaël Ange Mousse, Cina Motamed, and Eugène Cokou Ezin

Reduced Reference 3D Mesh Quality Assessment Based on Statistical Models
Ilyass Abouelaziz, Mounir Omari, Mohammed El Hassouni, and Hocine Cherifi

**Track: Web Computing and Applications (WeCA)**

Measuring Inconsistencies Propagation from Change Operation Based on Ontology Partitioning
Mouhamadou Gaye, Ousmane Sall, Mamadou Bousso, and Moussa Lo

Boosting of Association Rules for Robust Emergency Detection
Emanuele Cipolla and Filippo Vella

Network Disintegration in Criminal Network
Dyah Anggraini, Sarifuddin Madenda, Eri Prasetyo Wibowo, and Lahcen Boudedjout

Network Virtualization Using VPN for Stable Communication with Offshore Cloud
Hiroshi Fujikawa, Hirofumi Yamaki, Yukiko Yamamoto, and Setsuo Tsuruta

Towards Self-Organizing Internet of Things - Aware Systems for Online Sales
Yukiko Yamamoto, Takashi Kawabe, Setsuo Tsuruta, Ernesto Damiani, Atsuo Yoshiataka,
Yoshiyuki Mizuno, and Rainer Knauf

A Performance Analysis of the XACML Decision Process and the Impact of Caching
Ömer Malik Ilhan, Dirk Thatmann, and Axel Küpper

An Evaluation of Data Processing Solutions Considering Preprocessing and “Special” Features
Rabiul Islam Jony, Nabeel Mohammed, Ahsan Habib, Sifat Momen, and Rakibul Islam Rony

A First Prototype for Indexing, Visualizing and Mining Heterogeneous Data in Mediterranean Ecology: Within the IndexMed Consortium Interdisciplinary Framework
Romain David, Jean-Pierre Feral, Sophie Gachet, Alrick Dias, Cyrille Blanpain,
Julien Lecubin, Cristinel Diaconu, Christian Surace, and Karina Gibert

An Improved Concept Vector Space Model for Ontology Based Classification
Zenun Kastrati, Ali Sharif Imran, and Sale Yildirim Yayilgan

Enhanced Context Respectful Counseling Agent
Yukiko Yamamoto, Tetsuo Shinozaki, Setsuo Tsuruta, Ernesto Damiani, and Rainer Knauf

Assessing the Quality of Domain Concepts Descriptions in DBpedia
Ludovic Font, Amal Zouaq, and Michel Gagnon

Pytos: A Framework for Mobile Computation Offloading in Python
Enrique Arturo Soto Mendoza, Arlindo Flavio da Conceição, Alvaro H. Mamani Aliaga,
and Dario Vieira

Modeling Pervasive Context-Aware Mobile Phone Application
Fekade Getahun and Berhanu Abebe

Elementary Risks: Bridging Operational and Strategic Security Realms
Wael Kanoun, Serge Papillon, and Samuel Dubus
Track: Multimedia Information Retrieval and Applications (MIRA)

Real-Time Ball Position Measurement for Football Games Based on Ball’s Appearance and Motion Features ..........................................................287
Masaki Takahashi, Yuko Yamanouchi, and Toshiyuki Nakamura

A Gradual Shot Change Detection Using Combination of Luminance and Motion Features for Frame Rate Up Conversion ............................................295
Sangchul Kim, Hotak Hong, and Jongho Nang

A Rotation Invariant BSIF Descriptor for Video Copy Detection Using a Ring Decomposition ..................................................................................300
Yassine Himeur and Karima Ait Sadi

Towards a Scene-Based Video Annotation Framework ..................................................................................................................306
Fekade Getahun and Mekuanent Birara

Workshop: Complex Networks and Their Applications (COMPLEX NETWORKS)

Approximation of the Maximal Alpha–Consensus Local Community Detection Problem in Complex Networks ..........................................................314
Patricia Conde-Céspedes, Blaise Ngonmang, and Emmanuel Viennet

Comparing Community Detection Algorithms on Neuroimaging Data from Multiple Subjects ...........................................................................322
Joshua de Souza, Fumihiko Taya, Nitish V. Thakor, and Anastasios Bezerianos

Overlapping Community Detection Versus Ground-Truth in AMAZON Co-Purchasing Network ........................................................................328
Malek Jebabli, Hocine Cherifi, Chantal Cherifi, and Atef Hamouda

Reinventing the Triangles: Rule of Thumb for Assessing Detectability .................................................................................................337
Jeremi Kazimierz Ochab

An Accurate Probabilistic Model for Community Evolution Analysis in Social Network ................................................................................343
Ibrahima Gueye, Joseph Ndong, and Idrissa Sarr

A Retweet Network Analysis of the European Parliament .........................................................................................................................350
Darko Cherepnalkoski and Igor Mozetič

Orthogonal Eigenvector Matrix of the Laplacian .................................................................................................................................358
Xiangrong Wang and Piet Van Mieghem

Group Intimacy and Network Formation .........................................................................................................................................366
Kibum Kim, Woo Seong Jo, and Beom Jun Kim

Factorization Threshold Models for Scale-Free Networks Generation ....................................................................................................371
Akmal Artikov, Aleksandr Dorodnykh, Yana Kashinskaya, and Egor Samosvat

Evolving Social Networks via Friend Recommendations ......................................................................................................................379
Amit Kumar Verma and Manjish Pal

Features of Evolutionary Complex Networks in Complex Adaptive Systems ...............................................................................................384
Xiangyun Gao, Haizhong An, Huajiao Li, Lijun Wang, Xiaoqi Sun, and Feng An

Community Dynamics and Controllability of G7 Global Production Network ........................................................................................391
Yuichi Ikeda, Hideaki Aoyama, and Yohei Sakamoto

Building Dynamic Correlation Network for Financial Asset Returns ..................................................................................................398
Takashi Isogai
Structural Evolution of Stock Networks .................................................................406
Serkan Alkan and Khaldoun Khashanah

Superinfection in Networks ..................................................................................413
Marcus Mårtens, Raud van de Bovenkamp, and Piet Van Mieghem

On the Detection of Influential Actors in Social Media ....................................421
Ziyaad Qasem, Marc Jansen, Tobias Hecking, and H. Ulrich Hoppe

Following People’s Behavior Across Social Media .............................................428
Matteo Zignani, Azadeh Esfandyari, Sabrina Gaito, and Gian Paolo Rossi

Influence Assessment in Twitter Multi-relational Network ..............................436
Lobna Azaza, Sergey Kirgizov, Marinette Savonnet, Éric Leclercq, and Rim Faiz

Evolutionary Games on Multiplex Networks: Effects of Network Structures on Cooperation 444
Yasuyuki Nakamura, Yusuke Nagashima, and Koichi Yasutake

Comparison of Inter-Layer Couplings of Multilayer Networks ........................448
Tsuyoshi Murata

An Efficient Method for Link Prediction in Complex Multiplex Networks ..........453
Shikhar Sharma and Anurag Singh

Comparing the Sensitivity of Social Networks, Web Graphs, and Random Graphs with Respect to Vertex Removal .................................................................460
Christoph Martin and Peter Niemeyer

Topological Evaluation of Methods for Reconstruction of Genetic Regulatory Networks .................................................................468
Jakub Oleczak, Narsis A. Kiani, Hector Zenil, and Jesper Tegnér

A Social Network Analysis of Face Tracking in News Video .............................474
Benjamin Renoust, Thanh Duc Ngo, Duy Dinh Le, and Shin’ichi Satoh

A Preliminary Study on Mobile Apps Call Graphs through a Complex Network Approach .................................................................482
Matteo Orrù, Simone Porru, Roberto Tonelli, and Michele Marchesi

A Web Service Composition Framework Based on Centrality and Community Structure .................................................................489
Sophea Chhun, Kanokwan Malang, Chantal Cherifi, Néjib Moalla, and Yacine Ouzrout

Efficient Data Structures for Dynamic Graph Analysis ........................................497
Benjamin Schiller, Jeronimo Castrillon, and Thorsten Strufe

Does Diversity of Papers Affect Their Citations? Evidence from American Physical Society Journals .................................................................505
Murali Krishna Enduri, I. Vinod Reddy, and Shivakumar Jolad

Workshop: Computational Intelligence Techniques for Industrial and Medical Applications (CITIMA)
Efficient Graph-Oriented Smart Transportation Using Internet of Things Generated Big Data .................................................................512
M. Mazhar Rathore, Awais Ahmad, Anand Paul, and Gwanggil Jeon

A Survey on Fruit Fly Optimization Algorithm ..................................................520
Hazim Iscan and Mesut Gunduz

Analysis of Brain-Death EEG Data Using 2T-EMD Algorithm ..........................528
Daren Zheng, Gaocao Cui, Jiaying Cao, and Toshihisa Tanaka

NAND Flash Memory Garbage Collection Policy According to the Ratio of the Hot Pages .................................................................532
SeokHoon Kang and HyunYoung Jeong
Depth-First-Search Based Region Merging for the Waterfall .................................................................540
Kyungkoo Jun

Heart Sound Enhancement Based on Improved Spectral Subtraction ...................................................546
Lu Zhang and Lei Wang

Infrared Image Recovery from Visible Image by Using Multi-scale and Multi-view Sparse
Representation ........................................................................................................................................554
Xiaomin Yang, Wei Wu, Hua Hua, and Kai Liu

A Low-Complexity Interpolation Method for Single-Sensor Camera Imaging
with White-RGB Color Filter Array ........................................................................................................560
Xiangdong Chen, Liwen He, Jiaye Tang, and Young-Sup Lee

A New Framework for Infrared Image Enhancement ..............................................................................566
Hong Li, Xiaomin Yang, Wei Wu, and Kai Liu

Workshop: Insight on Eye Biometrics (IEB) and Quality of Multimedia
Services (QUAMUS)

Bimodal Eye Imaging System ..................................................................................................................572
Josef Hájek, Martin Drahanský, Radim Kolář, Jan Odstrčilík, and Ján Borovský

Improving Cross-Smartphone Periocular Verification in Visible Spectrum Using
Time-Frequency Features of Laplacian Decomposition ........................................................................576
Kiran B. Raja, Raghavendra, and Christoph Busch

Effective Retinal Blood Vessel Detection Using Only Directional Information .......................................583
Maria Frucci, Daniel Riccio, Gabriella Sanniti di Baja, and Luca Serino

A Layered Model for Quality Estimation of HTTP Video from QoS Measurements ..............................591
Toni Mäki, Martín Varela, and Doreid Ammar

Quality Prediction of Mobile Video Service Based on Radio Access Network Log Data ........................599
Seungbo Yoo, Dongmin Kim, Dongsoo S. Kim, and Hyunseung Choo

Workshop: Computer Visions and Application (IWCVA)

Isan Dhamma Handwritten Characters Recognition System by Using Functional Trees
Classifier ..................................................................................................................................................606
Preecha Khakham, Narumol Chumuang, and Mahasak Ketcham

Detecting Image Forgery Using XOR and Determinant of Pixels for Image Forensics ..............................613
Pakpoom Mookdarsanit, Lawankorn Soimart, Mahasak Ketcham, and Narit Hnoohom

Thai Handwritten Verification System on Documents for the Investigation ...........................................617
Narit Hnoohom, Narumol Chumuang, and Mahasak Ketcham

A Linear Scoring Algorithm for Shredded Paper Reconstruction ..........................................................623
Tanasanee Phienthrakul, Tewan Santitewagun, and Narit Hnoohom

Study .......................................................................................................................................................628
R. Raghavendra and Christoph Busch

Indoor Navigation System for Vision-Impaired Individual: An Application on Android
Devices ...................................................................................................................................................633
Varit Prudtipongpun, Wirawan Buakeaw, Thorntita Rattapongsen, and Mingmanas Sivaraksá
Efficient Facial and Facial Expression Recognition Using Canonical Correlation Analysis for Transform Domain Features Fusion and Classification .................................................................639
   Ehab H. El-Shazly, Moataz M. Abdelwahab, and Rin-ichiro Taniguchi

Development of Color QR Code for Increasing Capacity .............................................................645
   Nutchanad Taveerad and Sartid Vongpradhip

A Framework for Compilation of Multi-lingual Handwritten Database: Four Levels XML Ground-Truth ...........................................................................................................649
   Prakash Choudhary, Neeta Nain, and Manindra Nehra

Foreground Object Extraction Using Thresholding with Automatic Shadow Removal .........................................................655
   Mohit Singh, Neeta Nain, and Subhash Panwar

Fast Face Detection Based on Skin Segmentation and Facial Features .................................................................663
   Shalini Yadav and Neeta Nain

Workshop: Knowledge Acquisition, Reuse and Evaluation (KARE)

A BPK-CRIO Methodology for the Design and Implementation of a Multi-agent Based Business Process Monitoring System ...........................................................................................................669
   Yishuai Lin, Jiawei Zhu, and Qingshan Li

Introduction to Feature Selection for Atmospheric Quality Parameters Forecasting .................................................................675
   George Papadourakis and Ioannis Kyriakidis

Refinement of Knowledge Sharing Platforms to Promote Effective Use: A Use Case ...........................................................................................................680
   Carine Edith Toure, Christine Michel, and Jean-Charles Marty

How to Extract Knowledge from Professional E-Mails ...........................................................................................................687
   Rauscher Francois, Matta Nada, and Atifi Hassan

Multi-agent System to Support Creative Workshop ...........................................................................................................693
   Alex Gabriel, Davy Monticolo, Mauricio Camargo, and Mario Bourgault

A Refined Case Based Genetic Algorithm for Intelligent Route Optimization ...........................................................................................................698
   Yukiko Yamamoto, Takashi Kawabe, Yuuki Kobayashi, Setsuo Tsuruta, Yoshitaka Sakurai, and Rainer Knauf

Recovery Medical Articles Using Semantic Enrichment Method ...........................................................................................................705
   Jucélio Costa de Araújo, José Maria Parente de Oliveira, and Leonardo Garcia Marques

Workshop: Big Data meets Cloud and Virtualized Environment (BigCVEn), Ubiquity and Information System (UBIS) and Security Assurance in the Cloud (IWSAC)

WC3: Wikipedia Category Consistency Checker Based on DBPedia ...........................................................................................................712
   Masaharu Yoshioka and Rhett Loban

Improvement of Sun Flare Prediction by SVM Integrated GA ...........................................................................................................719
   Yukiko Yamamoto, Setsuo Tsuruta, Takayuki Muranushi, Yuko Hada Muranushi, Syoji Kobashi, Yoshiyuki Mizuno, and Rainer Knauf

DbHAAaS: Database High Availability as a Service ...........................................................................................................725
   Chetan Jaiswal and Vijay Kumar

An Approach Based on Social Network and Collective Intelligence for Interactive Composition of Web Services ...........................................................................................................733
   Ameni Youssfi Nouira, Yassine Jamoussi, and Henda Ben Ghezela Hajjami
Evolutionary-Based Wireless Sensor Deployment for Target Coverage ............................................................ 739
  Arouna Ndam Njoya, Wahabou Abdou, Albert Dipanda, and Emmanuel Tonye

Towards Cloud-Aware Vulnerability Assessments .......................................................... 746
  Kennedy A. Torkura and Christoph Meinel

Workshop: Visions on Internet of Cultural Things and Applications (VICtA)

Innovative e-Tourism Services on Top of Geo2Tag LBS Platform ....................................................... 752
  Ekaterina Balandina, Sergey Balandin, Yevgeni Koucheryavy, Sergey Balandin, and Dmitry Mouroumtsev

Designing Access to Audiovisual Cultural Heritage: The Case of the Carrot ............................................... 760
  Mariana Salgado and Willemien Sanders

Usability Evaluation of a Wearable Augmented Reality System for the Enjoyment of the Cultural Heritage .......................................................... 768
  Nadia Brancati, Giuseppe Caggianese, Giuseppe De Pietro, Maria Frucci, Luigi Gallo, and Pietro Neroni

Visiting Styles in an Art Exhibition Supported by a Digital fruition System ............................................... 775
  Salvatore Cuomo, Pasquale De Michele, Ardelio Galletti, and Giovanni Ponti

Verification and Planning in Agent-Based Systems .............................................................................. 782
  Flora Amato, Antonino Mazzeo, Francesco Moscato, and Dario Pianese

What’s the Matter with Cultural Heritage Tweets? An Ontology–Based Approach for CH Sensitivity Estimation in Social Network Activities .......................................................... 789
  Fiammetta Marulli, Paolo Benedusi, Adriano Racioppi, and Luca Flaviano Ungaro

Virtual Preservation of Contemporary Architectural Heritage in Developing Countries in Absence of Protection: Digital Reconstruction, Recording, and Archiving before Complete Disappearance .............................................................................. 796
  Human Esmaeili, Peter Charles Woods, and Harold Thwaites

Contextual Aware Computing and Tourism: A Case Study ..................................................................... 804
  Francesco Colace, L. Greco, Saverio Lemma, Marco Lombardi, F. Amato, V. Moscato, and A. Picariello

How to Describe Cultural Heritage Resources in the Web 2.0 Era? .................................................... 809
  Francesco Colace, Massimo De Santo, Saverio Lemma, Marco Lombardi, Amedeo Rossi, Alfonso Santoriello, Alessandro Terribile, and Marianna Vigorito

Smart Sensor Box: A Real Implementation of Devices Network for Structural Health Monitoring .......................................................... 816
  Berta Buttarazzi, Gianluca Troiani, Walter Liguori, and Michela Basili

An IoT Protocol and Framework for OEMs to Make IoT-Enabled Devices forward Compatible ...................... 824
  Gourinath Banda, Krishna Chaitanya, and Harsh Mohan

The “Paolo Orsi” Syracuse Archaeological Museum Pilot Project: A 360° Tour with Google Indoor Street View .............................................................................. 833
  Elisa Bonacini

SMaNe: A Smart Multisensor Network Based on Embedded Systems in IoT Environment .......................... 841
  Angelo Chianese, Francesco Piccialli, and Giuseppe Riccio

Author Index .................................................................................................................................................. 849