

# SITIS 2017 Conference Schedule

	Sunday 03/12/2017	Monday 04/12/2017		Tuesday 05/12/2017		Wednesday 06/12/2017		Thursday 07/12/2017			
		Registration (08:30 - 18:00)		Registration (08:30 - 18:00)		Registration (08:30 - 18:00)		Registration (08:30 - 18:00)			
	MNIT Jaipur	Room1	Room2	Room1	Room2	Room1	Room2	Room1	Room2		
09:00 - 09:30				Keynote 2 Prof. P. J. Narayanan		Keynote 3 Prof. Narendra Ahuja					
09:30 - 10:00				Coffee Break		Coffee Break		Coffee Break			
10:00 - 10:30				MIRA	WS NAMDAC	LHNA	WS VICTA	SIVT-S6 WS HTBA	WS IWAIP		
10:30 - 11:00				Lunch Break		Lunch Break					
11:00 - 11:30				Opening Ceremony		SIVT-S2	I-WeCA-S2	SIVT-S4	WS KARE WS OBIS		
11:30 - 12:00				Keynote 1 Prof. Anil K. Jain		Coffee Break		Coffee Break			
12:00 - 12:30				Coffee Break		Coffee Break		Coffee Break			
12:30 - 13:00				Registration		SIVT-S1	I-WeCA-S1	SIVT-S3	WS BigCVEn WS DARWIN	SIVT-S5	I-WeCA-S3
13:00 - 13:30										That's all Folks!	
13:30 - 14:00											
14:00 - 14:30											
14:30 - 15:00											
15:00 - 15:30											
15:30 - 16:00											
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17:00 - 17:30											
17:30 - 18:00											
18:00 - 18:30											
Social Event							20:30 - 23:00 Conference Banquet				

## Track I-WeCA: Intelligent Web Computing and Applications

### I-WeCA-S1: Data Mining and Intelligent Data Processing

Chair: Joe Tekli, Lebanese American University, Lebanon

(102) Flick: Japanese Input Method Editor using N-gram and Recurrent Neural Network Language Model based Predictive Text Input

Yukino Ikegami, Yoshitaka Sakurai, Ernesto Damiani, Rainer Knauf, Setsuo Tsuruta

(66) An approach to mine Time Interval based Weighted Sequential Patterns in Sequence Databases

Sirisha Alamanda, Suresh Pabboju, Narsimha Gugulothu

(105) Design of Counseling Robot for production by 3D printer

Kentarou Kurashige, Setsuo Tsuruta, Eriko Sakurai, Yoshitaka Sakurai, Rainer Knauf, Ernesto Damiani

(36) Energy Efficient Virtual Machine Placement in Cloud Data Centers Using Modified Intelligent Water Drop Algorithm

Chandra Shekhar Verma, V. Dinesh Reddy, G.R. Gangadharan, Atul Negi

### I-Weca-S2: Data Semantics and Web-Centric Systems

Chair: Kokou Yetongnon, University of Bourgogne

(5) An Improving Mapping Process Based on a Clustering Algorithm for Modeling Hybrid and Dynamic Ontological User Profile

Yannick-Ulrich Samen Tchantchou, Eugène C. Ezin

(88) Overview of Event-based Collective Knowledge Management in Multimedia Digital Ecosystems

Minale A. Abebe, Joe Tekli, Fekade Getahun, Richard Chbeir, Gilbert Tekli

(56) Trust Inference using Implicit Influence for Item Recommendation

Bithika Pal, Mamata Jenamani

(187) Configurable Refined Structure Tree

Wehbi BENALLAL, Mahmoud BARHAMGI, Djamel BENSLIMANE

### I-WeCA-S3: Intelligent Web Applications and Tools

Chair: Richard Chbeir, University of Pau, France

(34) I Am 'Totally' Human: Bypassing the reCaptcha

Samuel S. Brown, Nicholas DiBari, Sajal Bhatia

(68) Implementation and Customization of a Smart Mirror Through a Facial Recognition Authentication and a Personalized News Recommendation Algorithm

Ivette Cristina Araujo Garcia, Eduardo Rodrigo Linares Salmon, Rosario Villalta Riega, Alfredo Barrientos Padilla

(173) Toward Altmetric-driven Research-Paper Recommender System Framework

Maake Benard Magara, Prof. Sunday Ojo, Prof. Tranos Zuva

## Track LHNA: Large, Heterogeneous Networks and their Applications

### LHNA-S1: Track LHNA

*Chair Ana Roxin, University of Bourgogne, France*

**(67) A system to improve the accuracy of Numeric Weather Prediction (NWP) for flood forecasting systems**

*Joel Tanzouak, Ndiouma Bame, Blaise Yenke, Idrissa Sarr*

**(155) Cardiac Surgery Rehabilitation System (CSRS) for a Personalized Support to Patients**

*Giuseppe Caggianese, Mariaconsiglia Calabrese, Luigi Gallo, Giovanna Sannino, Carmine Vecchione*

**(157) Performance Evaluation of Artificial Bee Colony and Compressive Sensing Based Energy Efficient Protocol for WSNs**

*Simranpreet Kaur, Shivani Sharma*

**(191) Predicting Number of Connections on Video Streaming Server with Machine Learning Approach**

*Amit Shrivastava, Anand Rajavat, Rahul Deshmukh*

## Track MIRA: Multimedia Information Retrieval and Application

### MIRA-S1: Track MIRA

*Chair: Andrea Kutics, ICU, Japan*

**(41) Deep Interactive Region Segmentation and Captioning**

*Ali Sharifi Boroujerdi, Maryam Khanian, Michael Breuß*

**(59) Texture Based Video Steganography Technique Using Block-Wise Encryption**

*Shilpa Goyal, Maninder Singh Nehra*

**(61) A computer vision framework for automatic description of Indian Monuments**

*Pushkar Shukla, Beena Rautela, Ankush Mittal*

**(98) Indian Dance form Recognition from Videos**

*Ankita Bisht, Riya Bora, goutam Saini, Pushkar Shukla, Ankita Bisht*

**(104) Clause Anaphora Resolution of Japanese Demonstrative Determiner by Ontology Extension using Distributed Expression of Words**

*Yukino Ikegami, Rainer Knauf, Ernesto Damiani, Setsuo Tsuruta, Yoshitaka Sakurai*

**(135) Spam Detection in Social Media Employing Machine Learning Tool for Text Mining**

*Sadia Sharmin, Zakia Zaman*

**(169) Classification in Big Image Datasets Using Layered-SOM**

*Akihiko Nakagawa, Andrea Kutics*

## Track: Signal Image & Vision Technologies

### SIVT-S1: MEDICAL APPLICATIONS

*Chair: Albert Dipanda, University of Bourgogne, France*

**(100) Blood Vessel Segmentation using Hybrid Median Filtering and Morphological Transformation**

*Neha Gour, Pritee Khanna*

**(109) Automatic Extraction of Breast Region in Raw Mammograms Using a Combined Strategy**

*Cyrille Feudjio, Alain Tiedeu, John Klein, Olivier Colot*

**(126) Post-traumatic Epilepsy in rats: An algorithm for detection of suspicious EEG activity**

*Ivan A. Kershner, Yury V. Obukhov, Ilya G. Komoltsev*

**(128) Investigation of Specificity of Parkinson's Disease Features Obtained Using the Method of Cerebral Cortex Electrical Activity Analysis Based on Wave Trains**

*Olga S. Sushkova, Alexei A. Morozov, Alexandra V. Gabova*

**(148) Early Diagnosis of Osteoporosis using Active Appearance Model and Metacarpal Radiogrammetry**

*Mathew Sam, Anu Shaju Areckal, Sumam David S.*

### SIVT-S2: Learning and Classification

*Chair: Neeta Nain, MNIT Jaipur, India*

**(45) Multimodal Spam Classification Using Deep Learning Techniques**

*Shikhar Seth, Sagar Biswas*

**(60) Classification and Aesthetic Evaluation of Paintings and Artworks**

*Tarpit Sahu, Arjun Tyagi, Sonu Kumar, Dr. Ankush Mittal*

**(140) IPSegNet : Deep Convolutional Neural Network based Segmentation Framework for Iris and Pupil**

*Shreyas Malakarjun Patil, Ranjeet Ranjan Jha, Aditya Nigam*

**(151) A Deep Learning Hybrid CNN Framework Approach for Vegetation Cover Mapping using Deep Features**

*Rahul Nijhawan, Himanshu Sharma, Harshita Sahni, Ashita Batra*

**(158) An Integrated Deep Learning Framework Approach for Nail Disease Identification**

*Rahul Nijhawan, Rose Verma, Ayushi, Shashank Bhushan, Rajat Dua, Ankush Mittal*

## **SIVT-S3: Face and Human Characteristic Identification**

*Chair: Neeta Nain, MNIT Jaipur, India*

**(23) Generating Cancelable Palmprint Templates using Local Binary Pattern and Random Projection**

*Maroti Deshmukh, Manoj Kumar Balwant*

**(29) Cancelable Iris Template Generation Using Modulo Operation**

*Munaga V N K Prasad, Alugolu Jyothi, Kavadi Lasya*

**(90) Pholder: An Eye-Gaze Assisted Reading Application on Android**

*Christiantia Wirawan, Hu Qingyao, Liu Yi, Senglidet Yean, Bu-Sung Lee, Fang Ran*

**(110) Pyramid Binary Pattern for Age Invariant Face Verification**

*Saroj Bijarnia, Preety Singh*

**(124) Robust Gender Classification Using Multi-spectral Imaging**

*Narayan Vetrekar, Raghavendra Ramachandra, Kiran B. Raja, R. S. Gad, Christoph Busch*

**(176) A Curvature Based Approach for the Automated Screening of Retinopathy of Prematurity in Preterm Infants**

*Sivakumar R, Veena V, Renu John*

## **SIVT4: Theory and Methods**

*Chair: Albert Dipanda, University of Bourgogne, France*

**(32) Texture representation using Galois Field for Rotation Invariant Classification**

*Shivashankar S, Medha Kudari, Prakash S. Hiremath*

**(38) Rattletale: Phase-Coherent Telekinetic Imaging to Detect Tattletale Signs of Structural Defects or Potential Failure**

*Steve Mann*

**(43) Amalgamated Approach for Devanagari Script Corpus for OCR & Demographic Purpose and XML for Linguistic Annotation**

*Maninder Singh Nehra, Neeta Nain, Mushtaq Ahmed, Prakash Choudhary, Deepa Modi*

**(57) New Color Filter Array Interpolation Method Based on Mixed Color Channel Correlation**

*Yipeng Hua, Xiaoyang Miao, Xiangdong Chen*

**(114) Using Color Difference Equations for Calculating Gradient Images**

*Seyed Ali Amirshahi, Seyed Hossein Amirshahi, Joachim Denzler*

**(174) Modelling Complex Volume Shape Using Ellipsoid: Application to Pore Space Representation**

*Alain Tresor Kemgue, Olivier Monga, Serge Moto Mpong, Sebti Foufou*

**(185) Mesh Visual Quality Assessment Metrics: A Comparison Study**

*Ilyass Abouelaziz, Aladine Chetouani, Mohammed El Hassouni, Hocine Cherifi*

**(190) Segmentation of Synthetic Textures Employing Gabor Filter Magnitude in a Multi-Channeling Environment**

*Mudassir Rafi, Susanta Mukhopadhyay*

## **SIVT5: Applications**

*Chair: Olivier Monga, IRD, France*

**(46) Analysing Acceleration for Motion Analysis**

*Yan Sun, Jonathon S. Hare, Mark S. Nixon*

**(55) A Large Scale Crowd Density Classification using Spatio-Temporal Local Binary Pattern**

*Sonu Lamba, Neeta Nain*

**(112) Performance Comparison of High Efficiency Video Coding (HEVC) with H.264 AVC**

*Chena Ram, Subhash Panwar*

**(141) Development of Methods and Algorithms Based on Object-Oriented Logic Programming for Video Monitoring of Laboratory Rodents**

*Alexei A. Morozov, Olga S. Sushkova, Sandipkumar M. Vaniya*

**(152) Generalised Spatio Temporal Feature Based Important Activity Synopsis Generation**

*Tapas Badal, Neeta Nain, Mushtaq Ahmed*

## Mixte Session Track SIVT / Workshop HTBA

### SIVT-S6 /HTBA: Human Tracking and Behaviour Analysis

Chair: *Cyrille Migniot, University of Bourgogne, France*

**(27) FallFree: Multiple Fall Scenario Dataset of Cane Users for Monitoring Applications Using Kinect**

*Mona Saleh Alzahrani, Salma Kammoun Jarraya, Manar Ali Salamah, Hanène Ben-Abdallah*

**(91) Human Detection using HOG-SVM, Mixture of Gaussian and Background Contours Subtraction**

*Abdourahman Houssein Ahmed, Kidiyo Kpalma, Abdoukader Osman Guedi*

**(132) Recurrent Neural Network based Action Recognition from 3D Skeleton Data**

*Parul Shukla, Kanad K Biswas, Prem K Kalra*

**(130) Occupancy Analysis of Soccer Fields Using Wide-Angle Lens**

*Noor Ul Huda, Rikke Gada, Thomas Baltzer Moeslund*

**(188) Tracking Hands in Interaction with Objects: A Review**

*Ammar Ahmad, Cyrille Migniot, Albert Dipanda*

## Workshops : BigCVEn(Big Data meets Cloud and Virtualized Environment) and DARWIN (Distributed, Autonomic and Robust Wireless Networks)

### BigCVEn/DARWIN-S1: Workshops BigCVEn and DARWIN

Chair: *Ana Roxin, Diallo Gayo, Wahabou Abdou, France*

**(58) Impact of Mobility on Community Sensing with Environment Sensors**

*Atanu Mandal, Sunanda Bose, Nandini Mukherjee*

**(120) A Review on Applications of Big Data for Disaster Management**

*Muhammad Arslan, Ana-Maria Roxin, Christophe Cruz, Dominique Ginjac*

**(138) A Graph Matching Approach based on Aggregated Search**

*Ghizlane Echbarthi, Hamamache Kheddouci*

**(139) Overcoming Broadcast Storm Problem in a Vehicular Network**

*E. A Feukeu, T.Zuva*

## Workshop IWAIP: Artificial Intelligent Approaches for Image Processing

### IWAIP-S1: Workshop IWAIP

Chair: *Thaweesak Yingthawornsuk, King Mongkut's University of Technology Thonburi, Thailand*

**(146) Human Activity Recognition using Triaxial Acceleration Data from Smartphone and Ensemble Learning**

*Narit Hnoohom, Sakorn Mekruksavanich, Anuchit Jitpattanakul*

**(166) An Integration of Myo Armbands and an Android-based Mobile Application for Communication with Hearing-impaired Persons**

*Malika Vachirapipop, Safra Soymat, Wasurat Tiraronnakul, Narit Hnoohom*

**(172) Automatic Thai Coin Calculation System by Using SIFT**

*Thaweesak Yingthawornsuk, Narumol Chumuang, Mahasak Ketcham*

**(182) Identifying Behavioral Design Flaws in Evolving Object-Oriented Software Using An Ontology-Based Approach**

*Sakorn Mekruksavanich*

## Workshops KARE (Knowledge Acquisition Reuse & Evaluation) and OBIS (Open Business Intelligence Systems)

### KARE/OBIS-S1: Workshops KARE and OBIS

Chair: *Davy Monticolo, University of Lorraine, France*

**(115) A Crowdsourcing Based Framework for E-Government: Suspect Identification and Investigation**

*Hasna El Alaoui El Abdallaoui, Abdelaziz El Fazziki, Fatima Zohra Ennaji, Mohamed Sadgal*

**(145) Virtual Reality and Recommendation System to Design Mobility System**

*Alex Gabriel, Mario Ortiz*

**(159) IoT Coordination: Designing a Context-Driven Architecture**

*Belkeziz Radia, Jarir Zahi*

**(183) An Organizational Model to Understand the Creativity Workshop**

*Pedro Chávez Barrios, Davy Monticolo, Sahbi Sidhom, Alex Gabriel*

## **Workshop NAMDAC: Numerical Algorithms and Methods for Data Analysis and Classification**

### **NAMDAC-S1: Workshop NAMDAC**

*Chair: Salvatore Cuomo, University of Naples Federico II, Naples, Italy*

**(28) An Efficient Hybrid-Clustream Algorithm for Stream Mining**

*Ashish Kumar, Ajmer Singh, Rajvir Singh*

**(119) Opposition-Based Sine Cosine Algorithm (OSCA) for Training Feed-Forward Neural Networks**

*Divya Bairathi, Dinesh Gopalani*

**(129) First Experiences on an Accurate SPH Method on GPUs**

*Elisa Francomano, Ardelio Galletti, Livia Marcellino, Marta Paliaga*

**(164) A GPU-parallel Algorithm for Fast Hybrid BFS-DFS Graph Traversal**

*Antonio Maratea, Livia Marcellino, Vincenzo Duraccio*

**(168) Variable Width Rough-Fuzzy c-Means**

*Alessio Ferone, Ardelio Galletti, Antonio Maratea*

## **Workshop VICTA: Visions on Internet of Cultural Things and Applications**

### **VICTA-S1: Workshop VICTA**

*Chair: Angelo Chianese, University of Naples "Federico II", Italy*

**(30) Workflows and Challenges Involved in Creation of Realistic Immersive Virtual Museum, Heritage, and Tourism Experiences: A Comprehensive Reference for 3D Asset Capturing**

*Human Esmaeili, Harold Thwaites, Peter Charles Woods*

**(53) The Internet of Things(IoT): A Study of Architectural Elements**

*Deepika Navani, Sanjeev Jain, Maninder Singh Nehra*

**(96) Adaptive Reuse of Cultural Heritage Elements and Fragments in Public Spaces: The Internet of Cultural Things and Applications as Infrastructures for Learning in Smart Cities**

*H. Patricia McKenna*

**(142) Visitor Assistant Tools Based on Machine Learning Approaches in Cultural Heritage Contexts**

*Salvatore Cuomo, Ugo Chirico*