

SITIS with valuable cooperation of



*Université de Bourgogne, Dijon
France*



*Centre National de la Recherche Scientifique,
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*Association de Promotion de la Recherche scientifique en système
d'Information Multimédia en Emergence, Dijon
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*Università degli Studi di Milano
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*Laboratoire LE2I UMR CNRS 5158, Dijon
France*



SIGSMM (Special Interest Group on Semantic Multimedia Management)



French Chapter of the Special Interest Group on Applied Computing



*ICAR-CNR, Naples
Italy*



Room Assignment & Conference Events

	Sunday 25/11/2012	Monday 26/11/2012	Tuesday 27/11/2012	Wednesday 28/11/2012	Thursday 29/11/2012					
		Registration (08:30 - 18:30)	Registration (08:30 - 18:30)	Registration (08:30 - 18:30)	Registration (08:30 - 11:30)					
09:00 - 09:30		Opening Ceremony Room: Aminta	Keynote 2 Room: Aminta	Keynote 3 Room: Aminta	SIT-S11 Room: Aminta	SIT-S12 Room: Four Seasons				
09:30 - 10:00		Keynote 1 Room: Aminta								
10:00 - 10:30		Coffee Break	Coffee Break	Coffee Break	SIT-S13 Room: Aminta	SIT-S14 Room: Four Seasons				
10:30 - 11:00		Coffee Break	SIT-S6 Room: Aminta	IBCS-S2 Room: Four Seasons	W-SACOM-S2 Room: 3	W-Complex Networks-S3 Room: Aminta	IBCS-S3 Room: Four Seasons			
11:00 - 11:30		SIT-S1 Room: Aminta	IBCS-S1 Room: Four Seasons	W-Colour and Multispectral Imaging Room: 3	Coffee Break					
11:30 - 12:00										
12:00 - 12:30										
12:30 - 13:00										
13:00 - 13:30			Conference Lunch		Conference Lunch					
13:30 - 14:00										
14:00 - 14:30			SIT-S3 Room: Aminta	SIT-S4 Room: Four Seasons	W-InTERPRET Room: 3	SIT-S7 Room: Aminta	W-Complex Networks-S1 Room: Four Seasons	W-KARE Room: 3	SIT-S9 Room: Aminta	W-Webdis Room: Four Seasons
14:30 - 15:00										
15:00 - 15:30										
15:30 - 16:00										
16:00 - 16:30	Registration and welcome coffee	Coffee Break	Coffee Break	Coffee Break	That's all Folks!					
16:30 - 17:00		SIT-S2 Room: Aminta	SIT-S5 Room: Four Seasons	W-SACOM-S1 Room: 3	SIT-S8 Room: Aminta	W-Complex Networks-S2 Room: Four Seasons	W-MTSK Room: 3	SIT-S10 Room: Aminta	IBCS-S4 Room: Four Seasons	
17:00 - 17:30										
17:30 - 18:00										
18:00 - 18:30										
Social Event		19:00 - 19:30 Welcome reception	20:30 - 23:00 Conference Banquet							

Monday 26/11 (19:00 – 19:30)

Welcome Reception

Tuesday 27/11 (20:30 – 23:00)

Conference Banquet

Foreword

The eight International Conference On Signal-Image Technology & Internet-Based Systems SITIS'12 is a forum for researchers and scientists to share work and experiences. The conference includes two main tracks. Internet Based Computing and Systems IBCS focuses on issues ranging from information modeling and retrieval techniques to novel concepts, architectures and methodologies for interconnecting information systems. The track on Signal & Image Technologies is aimed at recent developments in digital signal processing, evolutions in audiovisual signal processing, analysis, coding and authentication, and retrieval techniques. Two workshops from past SITIS conferences have confirmed their successes: KARE, the workshop on Knowledge Acquisition, Reuse and Evaluation, is devoted to methods and systems that assist knowledge management; INTERPRET focuses on Multimedia Techniques for Augmented Reality: Presence and Emotion in Virtual Environment. We welcome several new workshops this year: COMI on colour and multispectral imaging, MTSK on methods, models and technology for semantic-driven knowledge building, Complex Networks and their applications, SACOM on situation aware computing and WEBDIS on web based and distributed information systems.

About 270 original submissions were received from around the world. A complete reviewing process was carried out in which each paper received on average 3 reviews, some received up to 5 reviews. Each paper is evaluated based on relevance to track topics, scientific correctness and clarity of presentation. 135 papers were selected for presentation and publication in the conference proceedings. The conference main goal is to foster an exciting and open discussion forum involving authors from different countries.

Our kudos go to many people who have greatly contributed to putting together a fine scientific program and exciting social events for SITIS 2012. We acknowledge the commitment and hard work of the track chairs and workshop organizers. They have kept the scientific program in focus and made the discussions interesting and valuable.

We recognize the excellent job done by the program committee members and the extra reviewers. They evaluated all the papers on a very tight time schedule. We are grateful for their dedication and contributions. We could not have done it without them. More importantly, we thank the authors for submitting and trusting their work to the conference. We are grateful for the cooperation of many institutions that have provided support and assistance: the university of Bourgogne, the research institute ICAR in Naples and the national research council CNRS.

We thank the General Chair, Dr Ernesto Damiani, and the program chair Dr Giuseppe De Pietro for their continuing support. We would like to express our deepest gratitude to the chair of the local organization committee, Dr Luigi Gallo, and the members of the local organization committee for their help, assistance and collaboration. They spare no effort in preparing the events and providing a friendly venue for the conference. We thank the conference secretary, expertly handled by the members of "YES Meet", particularly Rossella Gambardella, who, with smile and determination, never failed to find appropriate solutions for many organization problems.

We hope that you enjoy the scientific program of SITIS 2012. Sorrento, the conference venue, is really gorgeous, we have no doubt that the participants will take a little time to walk around town and bring many fond memories back with them. We trust you enjoy all.

On behalf of the SITIS steering committee:

Dr Albert Dipanda, Dr Richard Chbeir, Dr Kokou Yetongnon

SITIS 2012

General Chairs

Ernesto Damiani, Università degli Studi di Milano, Italy

Program Chairs

Giuseppe De Pietro, ICAR-CNR, Italy

Track Chairs

Bruno Apolloni, Università degli Studi di Milan, Italy

Albert Dipanda, University of Bourgogne, France

William I. Grosky, University of Michigan-Dearborn, USA

Giandomenico Spezzano, ICAR-CNR, Italy

Workshop Chairs/Organizers

Marco Anisetti, Università degli studi di Milano, Italy

Valerio Bellandi, Università degli studi di Milano, Italy

Gayo Diallo, University of Bordeaux, France

Hocine Cherifi, University of Bourgogne, France

Luigi Gallo, ICAR-CNR, Italy

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Ahmed Lbath, University of Grenoble, France

Vincenzo Loia, University of Salerno, Italy

Pierluigi Ritrovato, University of Salerno, Italy

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Paolo Ceravolo, Università degli Studi di Milano, Italy

Davy Monticolo, University of Lorraine, France

Kokou Yetongnon, University of Bourgogne, France

Steering Committee

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Roch Glitho, Concordia University, Canada

Vincent Oria, NJIT, USA

Emmanuel Tonye, ENSP, Cameroon

Kokou Yetongnon, University of Bourgogne, France

Local Organizing Committee

Luigi Gallo, ICAR-CNR, Italy (Chair)

Marco Anisetti, Università degli Studi di Milano, Italy

Valerio Bellandi, Università degli Studi di Milano, Italy

Fulvio Frati, Università degli Studi di Milano, Italy

Ivana Marra, ICAR-CNR, Italy

Conference Organizing Secretariat: YES Meet

Via S. Nicola, 4 – Sorrento [NA] - Italia - P. IVA 05876631218

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Keynotes

Keynote 1 Anatomy of a Cross Media Best Practice network for media aggregation and fruition

by Dr Paolo Nesi

Dipartimento di Sistemi e Informatica, University of Florence, Italy

Abstract:

The new frontier of media exploitation on the internet are mainly related to the exploitation and management of cross media, taking into account: multilingual indexing, massive ingestion and automated semantic computing, metadata enrichment, conditional access, open data production, mobile distribution, media aggregation, media annotation and synchronization. In best practice networks these issues have to be integrated within a set of collaborative work tools and user to user recommendations, content suggestions, social network analysis, content based retrieval, workflow management, ipr management, social network integration, user behaviour analysis. The talk will be mainly focused on presenting the most critical and innovative aspects, putting the attention on their solutions with concrete implementations, and on the architectural problems solved in the real case of ECLAP <http://www.eclap.eu> that is connected to Europeana, the European Digital Library.

Biography:

Paolo Nesi is full professor at the University of Florence, working at Department of Systems and Informatics (Computer Science Department) as Director. He received the PhD from Padua University and has spent a part of his PhD Studies at IBM Almaden research center. He is member of the Scientific Committee for the Faculty of Engineering. Since 2011, he is also a member of the scientific committee of CSAVRI of the University of Florence, and referent of the APRE Toscana for the University of Florence (<http://www.apretoscana.org>). He is member of the scientific committee Tuscany Area District on ICT and Robotics. He is Chair of the DISIT (Distributed Systems and Internet Technology, <http://www.disit.dsi.unifi.it>) Lab, of the University of Florence. DISIT LAB is mainly working on: software engineering, signal analysis (video and audio processing), protection models, models and media for digital content distribution, distributed architecture systems, formal methods and models, computer vision, music recognition, artificial intelligence, knowledge representation, semantic computing and models, digital rights management (DRM), multimedia middleware, distribution systems, social media, etc.



P. Nesi is co-author of more than 220 research articles. He has received a number of international and national awards, and has chaired several international conferences (DMS of SEKE, IEEE ICECCS, IEEE ICSM, AXMEDIS, WEDELMUSIC,...), an served editorial board member of int. journals such as Journal of Real Time Imaging of Academic Press, International Journal of Software Engineering and Knowledge Engineering and series of books. He is the co-chair of Distributed Multimedia Systems conference DMS2013, UK. He has been the scientific coordinator of several large R&D multi partner projects research and development project of the European Commission such as ECLAP, AXMEDIS, WEDELMUSIC, MUSICNETWORK, IMAESTRO, MOODS, and project responsible for many other projects as: Trace-IT, OSIM, VARIAZIONI, IMUTUS, MobMed, TILCO, etc. He has been Chair of the AHG on MPEG ISO SMR, He is coauthor of the MPEG-SMR ISO standard into MPEG-4, and contributed to MPEG-21, M3W. Paolo Nesi is a member of IEEE, ACM, AIIA, ICPR.

Keynote 2 Knowledge Assisted Multimedia Data Management, Retrieval, and Applications

by Dr Shu-Ching Chen, Ph.D.

School of Computing and Information Sciences, Florida International University, Miami, FL 33199, USA

Abstract:

Through the technological advances in data acquisition, storage, computing, analysis, and communication networks, huge amounts of multimedia data have become increasingly available and created new interesting technical possibilities in a variety of applications. This calls for the need for developing efficient and effective

techniques for multimedia data management and retrieval with the help of advanced knowledge discovery methodologies, particularly in collaborative multimedia Web environments, when the rapid increase of social networks brings forth the interaction among a large number of people who share huge amounts of all types of multimedia information (text, images, videos, etc.). In this talk, I will introduce the major components in developing a coherent framework for multimedia data management and retrieval systems, ranging from multimedia data processing to indexing, query, retrieval, and presentation. Specifically, a set of core techniques, such as multimedia data analysis, content-based image/video retrieval, and multimedia data mining, will be discussed in details and demonstrated using a prototype system. In addition, I will present the idea of applying these techniques to practical application domains such as disaster information management.

Biography:

Dr. Shu-Ching Chen is a Full Professor in the School of Computing and Information Sciences (SCIS), Florida International University (FIU), Miami since August 2009. Prior to that, he was an Assistant/Associate Professor in SCIS at FIU from 1999. He received Master's degrees in Computer Science, Electrical Engineering, and Civil Engineering in 1992, 1995, and 1996, respectively, and the Ph.D. degree in Electrical and Computer Engineering in 1998, all from Purdue University, West Lafayette, IN, USA. He is the Director of Distributed Multimedia Information Systems Laboratory and Associate Director of The Center for Advanced Distributed System Engineering at SCIS.



His main research interests include content-based image/video retrieval, distributed multimedia database management systems, multimedia systems, and Disaster Information Management. Dr. Chen has authored and coauthored more than 250 research papers and two books.

Dr. Chen was named a 2011 recipient of the ACM Distinguished Scientist Award. He received the best paper award from 2006 IEEE International Symposium on Multimedia. He was awarded the IEEE Systems, Man, and Cybernetics (SMC) Society's Outstanding Contribution Award in 2005 and was the co-recipient of the IEEE Most Active SMC Technical Committee Award in 2006. He was also awarded the Inaugural Excellence in Graduate Mentorship Award from FIU in 2006, the University Outstanding Faculty Research Award from FIU in 2004, the Excellence in Mentorship Award from SCIS in 2010, the Outstanding Faculty Service Award from SCIS in 2004, and the Outstanding Faculty Research Award from SCIS in 2002. He has been a General Chair and Program Chair for more than 35 conferences, symposiums, and workshops. He is the founding Editor-in-Chief of International Journal of Multimedia Data Engineering and Management and Associate Editors/Editorial Board for other 15 journals. He is the Chair of IEEE Computer Society Technical Committee on Multimedia Computing and Co-Chair of IEEE Systems, Man, and Cybernetics Society's Technical Committee on Knowledge Acquisition in Intelligent Systems. He is a steering committee member of IEEE Transactions on Multimedia. He also serves/served as a member of technical program committee for more than 200 professional meetings. He is a fellow of SIRI.

Keynote 3 Sparsity in signal and image processing: from modeling and representation to reconstruction and processing

by Dr Ali Mohammad-Djafari
Laboratoire des signaux et systèmes (L2S), SUPELEC, France

Abstract:

Sparse signal and image representation and modeling has recently been the focus of many researchers in many applications and has been used in signal and image reconstruction from direct sparse samples. The main idea is to use an over-complete basis with the desired properties and project the interested signal or image on that basis in the optimal way of keeping the least number of coefficients. Sparse signal and image representation also has been used as prior modeling in inverse problems arising in different signal and image processing, in particular, medical or industrial imaging systems. As understood, in inverse problems, the main difficulties are

the fact that we do not have direct samples (observations) and the ill-posedness of the inversion. Regularization methods have been proposed to introduce prior information and in particular the sparsity of the solution. The Bayesian estimation approach with the sparsity enforcing of the solutions to inverse problems is the focus of this tutorial. This keynote and tutorial talk is an overview and synthetic presentation of these methods and techniques both in signal and image representation and in inverse problems such as signal deconvolution, image restoration and image reconstruction in Computed Tomography.

Main reference:

Bayesian approach with prior models which enforce sparsity in signal and image processing, EURASIP Journal on Advances in Signal Processing 2012, 2012:52 doi:10.1186/1687-6180-2012-52 <http://asp.eurasipjournals.com/content/2012/1/52>

Biography:

Ali Mohammad-Djafari received the B.Sc. degree in electrical engineering from Polytechnique of Teheran, in 1975, the diploma degree (M.Sc.) from Ecole Supérieure d'Electricité (SUPELEC), Gif sur Yvette, France, in 1977 and the "Docteur-Ingénieur" (Ph.D.) degree and "Doctorat d'Etat" in Physics, from the University of Paris Sud 11 (UPS), Orsay, France, respectively in 1981 and 1987. He was Associate Professor at UPS for two years (1981-1983). Since 1984, he has a permanent position at "Centre National de la Recherche Scientifique (CNRS)" and works at "Laboratoire des signaux et systèmes (L2S)" at SUPELEC. He was a visiting Associate Professor at University of Notre Dame, Indiana, USA during 1997-1998. From 1998 to 2002, he has been at the head of Signal and Image Processing division at this laboratory.



Presently, he is "Directeur de recherche" and his main scientific interests are in developing new probabilistic methods based on Bayesian inference, Information Theory and Maximum Entropy approaches for Inverse Problems in general in all aspects of data processing, and more specifically in imaging and vision: image reconstruction, signal and image deconvolution, blind source separation, sources localization, data fusion, multi and hyper spectral image segmentation. The main application domains of his interests are Computed Tomography (X rays, PET, SPECT, MRI, microwave, ultrasound and eddy current imaging) either for medical imaging or for non destructive testing (NDT) in industry, multivariate and multi dimensional data, signal and image processing, data mining, clustering, classification and machine learning methods for biological or medical applications. He has supervised more than fifty M.Sc. Research projects, more than 15 Ph.D. Thesis and about 10 Post-doc research activities. In 2012, he is supervising 6 Ph.D. Thesis. He has more than 40 full journal papers and more than 200 papers in national and international conferences. He has organized or co-organized about 10 international workshops and conferences. He has been expert for a great number of French national and international projects. Since 1988 he has many teaching activities in M.Sc. And Ph.D. Level in SUPELEC and University of Paris. He also participated and managed many industrial contracts with many French national industries such as EDF and Thales or R & D great institutions such as CEA and INSERM as well as the regional (such as Digiteo), national (such as ANR) and European projects (such as ERASYSBIO). For an overview and access to more details of his activities and publications, please see his web page:

<http://djafari.free.fr> and <http://publicationslist.org/djafari>

Conference Program

MONDAY Nov 26

Slot	Time	"Aminta" ROOM	"Four Seasons" ROOM	ROOM 3
Session 1	09:00 - 10:30	Opening Ceremony + Keynote 1 (Prof. Paolo Nesi)		
Break	10:30 - 11:00	Coffee break		
Session 2	11:00 - 13:00	SIT-S1	IBCS-S1	W-Colour and Multispectral Imaging
Social Event	13:00 - 14:00	Conference Lunch		
Session 3	14:00 - 16:00	SIT-S3	SIT-S4	W-InTERPRET
Break	16:00 - 16:30	Coffee break		
Session 4	16:30 - 18:30	SIT-S2	SIT-S5	W-SACOM-S1
Social Event	19:00 - 19:30	Welcome reception		

08:30 – 18:30 **Registration**

09:00 – 10:30 **Opening Ceremony**

Keynote

Anatomy of a Cross Media Best Practice network for media aggregation and fruition

Prof Paolo Nesi

Chaired by Ernesto Damiani

10:30 – 11:00 **Coffee Break**

Track Signal and Image Technology (SIT)



Nov, 26

Time / Room	Session
11:00 – 13:00 Aminta	<p>SIT-S1: Video Processing and Coding <i>Chaired by Fulvio Fratti</i></p> <p>33 Adapting the Streaming Video Based on the Estimated Position of the Region of Interest <i>Hussein Muzahim Aziz, Markus Fiedler, Håkan Grahn, Lars Lundberg</i></p> <p>42 Exploiting Visual Cues in Non-Scripted Lecture Videos for Multi-modal Action Recognition <i>Ali Shariq Imran, Alejandro Moreno, Faouzi Alaya Cheikh</i></p> <p>120 Video Error Concealment of P-frame Using Packets of the Following Frames <i>Fei Cheng, Jimin Xiao, Jin Zhi, Tammam Tillo</i></p> <p>16 LORD: Low-complexity, Rate-controlled, Distributed Video Coding System <i>Rami Cohen, David Malah</i></p>
13:00 – 14:00	Conference Lunch
14:00 – 16:00 Aminta	<p>SIT-S3: Enhancement <i>Chaired by Pierre Gouton</i></p> <p>2 Edge-Based Automatic Parameter Selection for Sub-Optimal Image Despeckling Using Kuan Filter <i>Adib Akl, Kamal Tabbara, Charles Yaacoub</i></p> <p>109 Removal of Salt and Pepper Noise Using Sparse Representation <i>Yenduri Naveen, Sumana Gupta</i></p> <p>110 Design and Application of a New Multiscale Multidirectional Non-subsampled Filter Bank <i>M. Satish, Sumana Gupta</i></p> <p>168 Visibility Enhancement Based Real-Time Retinex for Diverse Environments <i>Bin-Na Yu, Byung-Sung Kim, Kwae-Hi Lee</i></p>

<p>14:00 – 16:00 4 Seasons</p>	<p>SIT-S4: Face Recognition <i>Chaired by Ernesto Damiani</i></p> <p>15 Compressed Sensing Face Recognition Method in Heterogeneous Database with Small Sample Size Problem <i>Ji-Xin Liu, Redouane Khemmar, Jean-Yves Ertaud, Xavier Savatier</i></p> <p>86 Face Recognition Using Multiscale and Spatially Enhanced Weber Law Descriptor <i>Muhammad Hussain, Ghulam Muhammad, George Bebis</i></p> <p>89 An Effective Face Detection Algorithm Based on Skin Color Information <i>Alaa Sagheer, Saleh Aly</i></p> <p>108 Face Recognition Based on Sparse Representation Classifier with Gabor-Edge Components Histogram <i>Hansung Lee, Yunsu Chung, Jang-Hee Yoo, Chulho Won</i></p> <p>106 Who Said That? The Crossmodal Matching Identity for Inferring Unfamiliar Faces from Voices <i>Escoto Sotelo E.A., Tomoaki Nakamura, Takayuki Nagai, Escamilla Hernandez E.</i></p>
<p>16:00 – 16:30</p>	<p>Coffee Break</p>
<p>16:30 – 18:30 Aminta</p>	<p>SIT-S2: Depth Camera Image Processing <i>Chaired by Luigi Gallo</i></p> <p>1 Efficient Depth Image Compression Using Accurate Depth Discontinuity Detection and Prediction <i>Reuben A. Farrugia</i></p> <p>73 3D Reconstruction of Urban Environments Based on Fisheye Stereovision <i>Julien Moreau, Sébastien Ambellouis, Yassine Ruichek</i></p> <p>165 An RGB-D Database Using Microsoft's Kinect for Windows for Face Detection <i>R.I. Hg, P. Jasek, C. Rofidal, K. Nasrollahi, T.B. Moeslund, G. Tranchet</i></p> <p>257 Temporal Denoising of Kinect Depth Data <i>Kyis Essmaeel, Luigi Gallo, Ernesto Damiani, Giuseppe De_Pietro, Albert Dipandà</i></p>
<p>16:30 – 18:30 4 Seasons</p>	<p>SIT-S5: Medical Imaging , Biometrics <i>Chaired by Jean Baptiste Thomas</i></p> <p>28 Measuring the Quality of IRIS Segmentation for Improved IRIS Recognition Performance <i>Raida Hentati, Bernadette Dorizzi, Yassine Aoudni, Mohamed Abid</i></p> <p>101 Biometrics Information Protection Using Fuzzy Vault Scheme <i>Ki Young Moon, Daesung Moon, Jang-Hee Yoo, Hyun-Suk Cho</i></p> <p>113 A Model Based Approach for Vessel Caliber Measurement in Retinal Images <i>Muhammad Moazam Fraz, Paolo Remagnino, Andreas Hoppe, Sarah A. Barman, Alicja Rudnicka, Chris Owen, Peter Whincup</i></p> <p>193 Accurate Segmentation of Breast Tumors in Ultrasound Images Using a Custom-Made Active Contour Model and Signal-to-Noise Ratio Variations <i>Mohammad I. Daoud, Mohammad M. Baba, Falah Awwad, Mahasen Al-Najjar, Emad S. Tarawneh</i></p> <p>68 A Comparison of Different Gabor Features for Mass Classification in Mammography <i>Muhammad Hussain, Salabat Khan, Ghulam Muhammad, George Bebis</i></p> <p>67 Guided Gabor Filter for Finger Vein Pattern Extraction <i>Shan Juan Xie, Jucheng Yang, Sook Yoon, Lu Yu, Dong Sun Park</i></p>
<p>19:00</p>	<p>Welcome Reception</p>

Track Internet Based Computing and Systems (IBCS)

Nov, 26

Time / Room	Session
11:00 – 13:00 4 Seasons	IBCS-S1: Web-Centric Systems <i>Chaired by Antonio Coronato</i>
	107 Inference of an XML Schema with the Knowledge of XML Operations <i>Mário Mikula, Jakub Stárka, Irena Mlýnková</i>
	260 Generalizing and Improving SQL/XML Query Evaluation <i>Stefan Böttcher, Dennis Bokermann, Rita Hartel</i>
	10 Service-oriented Communities: Models and Concepts Towards Fractal Social Organizations <i>Vincenzo De_Florio, Antonio Coronato, Mohamed Bakhouya, Giovanna Di_Marzo Serugendo</i>
	87 Ontology Change Estimation Based on Axiomatic Semantic and Entropy Measure <i>Mamadou Bousso, Ousmane Sall, Mouhamadou Thiam, Moussa Lo, El Hadji Bassirou Toure</i>
	203 A Service Oriented Information System: A Model Driven Approach <i>Abdelaziz El Fazziki, Hamza Lakhrissi, Kokou Yetongnon, Mohamed Sadgal</i>
	150 A Fine-Grained Image Access Control Model <i>Bechara Al Bouna, Richard Chbeir, Alban Gabillon, Patrick Capolsini</i>
13:00 – 14:00	Conference Lunch
14:00 – 18:30	
19:00	Welcome Reception

Workshops

Time / Room	Session
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Workshop Colour and Multispectral Imaging (W- Colour)

Nov, 26

11:00 – 13:00 Room 3	<i>Chaired by Jean Baptiste Thomas</i>
	152 Multi- and Single-output Support Vector Regression for Spectral Reflectance Recovery <i>Ferdinand Deger, Alamin Mansouri, Marius Pedersen, Jon Y. Hardeberg, Yvon Voisin</i>
	172 LED Based Multispectral Film Scanner for Accurate Color Imaging <i>Raju Shrestha, Jon Yngve Hardeberg, Clotilde Boust</i>
	247 Sharpness Improvement of Warped Document Images for Top View Book Scanners <i>Ramy Batraway, Markus Schnitzlein, Dietmar Nowack, Gerald Krell, Ayoub Al-Hamadi</i>
	116 Towards an Ontological Approach for Classifying Remote Sensing Images <i>Samuel Andrés, Damien Arvor, Christelle Pierkot</i>
	202 Analysis of Multispectral Images of Excised Colon Tissue Samples Based on Genetic Algorithms <i>J. Galeano, R. Jolivot, Y. Benezeth, F. Marzani, J.F. Emile, D. Lamarque</i>
	137 Comparative Study of Clustering Based Colour Image Segmentation Techniques <i>Samira Chebbout, Hayet Farida Merouani</i>
13:00 – 14:00	Conference Lunch

Workshop on Multimedia Techniques for Augmented Reality: Presence and Emotion in Virtual Environment (W-INTERPRET)

Nov, 26

14:00 – 16:00
Room 3

Chaired by Valerio Bellandi

99 **Intra-Field Selective Deinterlacing Algorithm Considering the Fine Edge Direction**

Jooseong Hong, Dmitriy Khvan, Jechang Jeong, Gwanggil Jeon

104 **Reconstruction of Car Crash Scenes Using a 3D Building and Query Algebra**

Flora Amato, Vincenzo Moscato, Antonio Picariello, Carlo Sansone

126 **View-independent Hand Posture Recognition from Single Depth Images Using PCA and Flusser Moments**

Luigi Gallo, Alessio Pierluigi Placitelli

57 **Versatile Search Range Adjustment Algorithm for Fast Block-Based Motion Estimation**

Ilseung Kim, Jaehun Kim, Gwanggil Jeon, Jechang Jeong

88 **A Cloud Service for Adaptive Digital Music Streaming**

Ashkan Paya, Dan C. Marinescu

118 **Advanced Hybrid Interpolation Based on Edge Direction Extracted from the DCT Coefficient Distribution**

Jaehun Kim, Kibaek Kim, Janghyeok Yun, Jechang Jeong, Gwanggil Jeon

16:00 – 16:30 **Coffee Break**

Workshop on Situation Aware Computing (W-SACOM)

Nov, 26

16:30 – 18:30
Room 3

W-SACOM-S1

Chaired by Ernesto Damiani

92 **Modeless Japanese Input Method Using Multiple Character Sequence Features**

Yukino Ikegami, Yoshitaka Sakurai, Setsuo Tsuruta

226 **Context-based Reflection Support Counseling Agent**

Tetsuo Shinozaki, Yukiko Yamamoto, Kohei Takada, Setsuo Tsuruta

19 **An Adaptive System for Optimal Matches between Human Needs and Offers**

Setsuo Tsuruta, Keiko Tsuruta, Kohei Takada, Yoshitaka Sakurai, Yoshiyuki Mizuno, Takashi Kawabe, Rainer Knauf

240 **Towards a Collaborative Innovation Catalyst**

Valerio Bellandi, Paolo Ceravolo, Ernesto Damiani, Fulvio Frati, Jonatan Maggesi

179 **Effective and Efficient Filtering of Retrieved Images Based on JPEG Header Information**

Gerald Schaefer, David Edmundson, Kohai Takada, Setsuo Tsuruta, Yoshitaka Sakurai

227 **Image and Text Fusion for Context-aware Recommendation**

Kohei Takada, Motoki Iwasawa, Masahiro Kaneko, Yoshitaka Sakurai, Setsuo Tsuruta, Gerald Schaefer

19:00

Welcome Reception

Tuesday Nov 27

Slot	Time	"Aminta" ROOM	"Four Seasons" ROOM	ROOM 3
Session 1	09:00 - 10:00	Keynote 2 (Prof. Shu-Ching Chen)		
Break	10:00 - 10:30	Coffee break		
Session 2	10:30 - 12:30	SIT-S6	IBCS-S2	W-SACOM-S2
Break	12:30 - 14:00			
Session 3	14:00 - 16:00	SIT-S7	W-Complex Networks-S1	W-KARE
Break	16:00 - 16:30	Coffee break		
Session 4	16:30 - 18:30	SIT-S8	W-Complex Networks-S2	W-MTSK
Social Event	20:30 - 23:00	Conference Banquet @ Imperial Hotel Tramontano		

08:30 – 18:30 **Registration**

09:00 – 10:00 **Keynote**

Knowledge Assisted Multimedia Data Management, Retrieval, and Applications

Prof. Shu-Ching Chen

Chaired by Richard Chbeir

10:00 – 10:30 **Coffee Break**

Track Signal and Image Technology (SIT)



Nov, 27

Time / Room	Session
10:30 – 12:30 Aminta	<p>SIT-S6: Image Segmentation <i>Chaired by Giuseppe Depietro</i></p> <p>32 Hough Transformed Based Ship Segmentation Using Centerline Extraction and Feature Angles <i>Irene Camino García, Udo Zölzer</i></p> <p>48 Cursive Handwritten Segmentation and Recognition for Instructional Videos <i>Ali Shariq Imran, Sukalpa Chanda, Faouzi Alaya Cheikh, Katrin Franke, Umapada Pal</i></p> <p>119 Edge-Enhancing of Color Segmented Images <i>Assia Kourgli, Youcef Oukil</i></p> <p>151 Recursive-TFR Algorithm for Segmentation of Remotely Sensed Images <i>Giuseppe Scarpa, Giuseppe Masi, Luisa Verdoliva, Giovanni Poggi, R. Gaetano</i></p> <p>70 Real-time Object Detection by Road Plane Segmentation Technique for ADAS <i>V. Balisavira, V.K. Pandey</i></p> <p>28 Measuring the Quality of IRIS Segmentation for Improved IRIS Recognition Performance <i>Raida Hentati, Bernadette Dorizzi, Yassine Aoudni, Mohamed Abid</i></p>
12:30 – 14:00	
14:00 – 16:00 Aminta	<p>SIT-S7: Watermarking, Image Compression <i>Chaired by Andrea Kutics</i></p> <p>41 Auto White Balance Using the Coincidence of Chromaticity Histograms <i>Tao Jiang, Duong Nguyen, Klaus-Dieter Kuhnert</i></p> <p>200 Yamagushi Decomposition Based on the Compact Polarimetry Mode Using RADARSAT2 Data <i>Boularbah Souissi, Mounira Ouarzeddine, Aichouche Belhadj-Aissa</i></p> <p>34 Tiled Image Container for Web Compatible Compound Image Compression <i>Ashok Mathew Kuruvilla</i></p> <p>37 Modulation in the HVS Domain for Hardcopy Watermarking of Color Documents <i>Joceli Mayer, Steven J. Simske</i></p> <p>133 Enhancement of Error-Correction Coding of Spatial Watermarks for JPEG Compression <i>Tadahiko Kimoto</i></p>
16:00 – 16:30	Coffee Break

<p>16:30 – 18:30 Aminta</p>	<p>SIT-S8: Learning, Classification <i>Chaired by Irene Camino</i></p> <p>75 Robust PCA-GMM-SVM System for Speaker Verification Task <i>Kawthar Yasmine Zergat, Abderrahmane Amrouche, Nassim Asbai, Mohamed Debyeche</i></p> <p>44 Group-Based Fast Mode Decision Algorithm for Intra Prediction in HEVC <i>Shunqing Yan, Liang Hong, Weifeng He, Qin Wang</i></p> <p>50 Improving SURF Image Matching Using Supervised Learning <i>Hatem Mousselly Sergieh, Elöd Egyed-Zsigmond, Mario Döllner, David Coquil, Jean-Marie Pinon, Harald Kosch</i></p> <p>122 Statistical Structure Modeling and Optimal Combined Strategy Based Chinese Components Recognition <i>Bowen Yu, Xiaohui Liang, Jijia Hu, Linjia Sun</i></p> <p>173 Definition and Performance Evaluation of a Robust SVM Based Fall Detection Solution <i>Imen Charfi, Johel Miteran, Julien Dubois, Mohamed Atri, Rached Tourki</i></p>
<p>20:30 – 23:00</p>	<p>CONFERENCE BANQUET @ IMPERIAL HOTEL TRAMONTANO</p>

<h2>Track Internet Based Computing and Systems (IBCS)</h2>	
<p>Nov, 27</p>	
Time / Room	Session
<p>10:30 – 12:30 4 Seasons</p>	<p>IBCS-S2: Advanced Information Systems <i>Chaired by Richard Chbeir</i></p> <p>161 Improving Accuracy and Interpretability of Clinical Decision Support Systems through Possibilistic Constrained Evolutionary Optimization <i>Domenico Maisto, Massimo Esposito</i></p> <p>64 Extracting Touristic Information from Online Image Collections <i>Edoardo Ardizzone, Francesco Di_Miceli, Marco La_Cascia, Giuseppe Mazzola</i></p> <p>177 A Knowledge-based Method for Verifying the Reliability of Clinical DSSs <i>Eugenio Cesario, Massimo Esposito</i></p> <p>162 Interpolating Probability Values or Fuzzy Set Values for Uncertain Spatiotemporal Objects <i>Erlend Tøssebro</i></p> <p>190 Linguistically Aware Semantic Network for Automated Information Tracking <i>Konstanty Haniewicz, Magdalena Adamczyk, Wojciech Rutkowski</i></p> <p>24 Versioning of Conventional Schema in the tXschema Framework <i>Zouhaier Brahmia, Fabio Grandi, Barbara Oliboni, Rafik Bouaziz</i></p>
<p>12:30 – 14:00</p>	
<p>14:00 – 18:30</p>	
<p>20:30 – 23:00</p>	<p>CONFERENCE BANQUET @ IMPERIAL HOTEL TRAMONTANO</p>

Workshops

Time / Room Session

Workshop on Situation Aware Computing (W-SACOM)

Nov, 27

10:30 – 12:30
Room 3

W-SACOM-S2

Chaired by Yoshitaka Sakurai

18 **Personalized and Adaptive Curriculum Optimization Based on a Performance Correlation Analysis**

Rainer Knauf, Kinshuk, Kouhei Takada, Yoshitaka Sakurai, Takashi Kawabe, Setsuo Tsuruta

224 **Personalized Video Summarization Based on Behavior of Viewer**

Atsuo Yoshitaka, Kazuya Sawada

238 **Ensuring XML Integrity Using Watermarking Techniques**

Romaric Tchokpon, Stelvio Cimato, Nadia Bennani

229 **Evaluation of Language Pipeline for Awareness Service Platform**

Kouhei Takada, Masahiro Kaneko, Yukiko Yamamoto, Yoshitaka Sakurai, Setsuo Tsuruta, Ernesto Damiani

153 **Diversity of Genes, Its Representation and its Use for Creating New Individuals**

Masaki Suzuki, Kouhei Takada, Setsuo Tsuruta, Rainer Knauf

230 **A Population Based Rewarding for Reinforcement Learning to Control Genetic Algorithms**

Yoshitaka Sakurai, Setsuo Tsuruta

12:30 – 14:00

Workshop on Complex Networks and Applications (W-Complex Networks)

Nov, 27

14:00 – 16:00
4 Seasons

W-Complex Network-S1

Chaired by Hocine Cherifi

263 **Social Network Analysis in Scientometrics**

Adam Matusiak, Mikolaj Morzy

216 **A Comparative Study of Web Services Composition Networks**

Chantal Cherifi, Jean-François Santucci

242 **Complex Network of Earthquakes: Universal Law for Waiting Internal Time in Seismicity**

Norikazu Suzuki

95 **Go with the Winner: Optimizing Detection of Modular Organization Differences in Dynamic Functional Brain Networks**

S.I. Dimitriadis, Nikolaos Laskaris, A. Tzelepi

232 **A Characterization of the Modular Structure of Complex Networks Based on Consensual Communities**

Ivan Keller, Emmanuel Viennet

Workshop on Knowledge Acquisition Reuse and Evaluation (W-KARE)

Nov, 27

14:00 – 16:00
Room 3

Chaired by Davy Monticolo

234 **KROM: An Organizational Meta-Model Oriented to Knowledge: A Case from Ophthalmic Industry**

J. Girodon, D. Monticolo, E. Bonjour, M. Perrier

206 **Multi-Web, Event-Centric Urban Information Integration**

Stefano Montanelli, Silvana Castano, Lorenzo Genta

215 **Towards the Automatic Detection and Correction of Errors in Automatically Constructed Ontologies**

Andriana Gkaniatsou, Alan Bundy, Fiona Mcneill

- 252 **Interoperability Knowledge Base for Persistent Identifiers Interoperability Framework**
Emanuele Bellini, Cinzia Luddi, Chiara Cirinnà, Maurizio Lunghi, Achille Felicetti, Barbara Bazzanella, Paolo Bouquet
- 258 **The Role of a Semantic Approach of Complex Statistical Information System Planning and Management**
Cristina Martelli, Emanuele Bellini

16:00 – 16:30 Coffee Break

Workshop on Complex Networks and Applications (W-Complex Networks)

Nov, 27

**16:30 – 18:30
4 Seasons**

W-Complex Network-S2

Chaired by Bosiljka Tadic

61 Directed Networks of Online Chats: Content-Based Linking and Social Structure

Vladimir Gligorijevic, Marcin Skowron, Bosiljka Tadic

243 On the Structure of Changes in Dynamic Contact Networks

Vincent Neiger, Christophe Crespelle, Eric Fleury

210 Composite Centrality: A Natural Scale for Complex Networks

Andreas Joseph, Guanrong Chen

228 Accelerated Motif Detection Using Combinatorial Techniques

Luis A.A. Meira, Vinícius R. Máximo, Álvaro L. Fazenda, Arlindo F. da_Conceição

261 Renormalization of Spectra for Network Laplacian as Applied to Synchronization

Stefan Boettcher

209 Efficient Q-matrix Computation for the Visualization of Complex Networks

Roldan Pozo

Workshop on Methods, Models and Technology for Semantic-driven Knowledge Building (W-MTSK)

Nov, 27

**16:30 – 18:30
Room 3**

Chaired by Pierluigi Ritrovato

82 Mapping Knowledge Activities with System Operations to Foster Information Systems for Knowledge Work

Kathrin Widmann, Isabella Seeber, Ronald Maier

131 A Semantic Approach for Continuous Assessment in Organizations

Matteo Gaeta, Francesco Orciuoli, Giuseppe Fenza, Giuseppina Rita Mangione, Pierluigi Ritrovato

83 Exploiting Participatory Design in Open Innovation Factories

Valerio Bellandi, Paolo Ceravolo, Ernesto Damiani, Fulvio Frati, Jonatan Maggesi, Li Zhu

97 A Knowledge Discovery Methodology for Semantic Categorization of Unstructured Textual Sources

Daniele Toti, Paolo Atzeni, Fabio Polticelli

77 Managing Strategies for Cooperative Multi-Agents under Diversity

Seiichi Arai, Satoshi Shimada, Takao Miura

121 Exploiting Semantic Models and Techniques to Evaluate Relevance of Human Resources in Knowledge Intensive Organizations

Angelo Gaeta, Matteo Gaeta, Paolo Picocchi, Agostino Vollero, Pierluigi Ritrovato

188 Adult Video Content Detection Using Machine Learning Techniques

Victor M. Torres Ochoa, Sule Yildirim Yayilgan, Faouzi Alaya Cheikh

20:30 – 23:00 CONFERENCE BANQUET @ IMPERIAL HOTEL TRAMONTANO

Wednesday Nov 28

Session 1	09:00 - 10:00	Keynote 3 (Prof. Ali Mohammad-Djafari)		
Break	10:00 - 10:30	Coffee break		
Session 2	10:30 - 12:30	W-Complex Networks-S3	IBCS-S3	
Social Event	12:30 - 13:30	Conference Lunch		
Session 3	13:30 - 15:30	SIT-S9	W-Webdis	
Break	15:30 - 16:00	Coffee break		
Session 4	16:00 - 18:00	SIT-S10	IBCS-S4	

08:30 – 18:30 **Registration**

09:00 – 10:00 **Keynote**

Sparsity in signal and image processing: from modeling and representation to reconstruction and processing

Prof. Ali Mohammad-Djafari

Chaired by Albert Dipanda

10:00 – 10:30 **Coffee Break**

Track Signal and Image Technology (SIT)



Nov, 28

Time / Room	Session
10:30 – 12:30	
12:30 – 13:30	Conference Lunch
13:30 – 15:30 Aminta	<p>SIT-S9: Image Analysis I <i>Chaired by Giuseppe Scarpa</i></p> <p>127 Analysing Micro- and Macro-Structures in Textures <i>B.M. Waller, M.S. Nixon, J.N. Carter</i></p> <p>132 Quality Measurement of Image Segmentation Evaluation Methods <i>Štěpán Šrubar</i></p> <p>123 Comparative Evaluation of Various Fractal Dimension Estimation Methods <i>Malha Lehamel, Kamal Hammouche</i></p> <p>63 A Clustering Algorithm of Trajectories for Behaviour Understanding Based on String Kernels <i>Luc Brun, Alessia Saggese, Mario Vento</i></p> <p>84 Finding the Correspondence Points in Images of Multi-Views <i>Seyed Mohammad Hassan Anvar, Wei-Yun Yau, Eam Khwang Teoh</i></p>
15:30 – 16:00	Coffee Break
16:00 – 18:00 Aminta	<p>SIT-S10: Image Analysis 2 <i>Chaired by Ali Mohammad-Djafari</i></p> <p>76 Stroke-Based Chinese Character Completion <i>Xiaoqing Wang, Xiaohui Liang, Jiajia Hu, Linjia Sun</i></p> <p>125 Semantic Bag-of-Words Models for Visual Concept Detection and Annotation <i>Yu Zhang, Stephane Bres, Liming Chen</i></p> <p>149 A Novel Approach of Skew Normalization for Handwritten Text Lines and Words <i>Subhash Panwar, Neeta Nain</i></p> <p>158 Improving Barcode Detection with Combination of Simple Detectors <i>Péter Bodnár, László G. Nyúl</i></p> <p>182 A Novel Method for Accurate and Efficient Barcode Detection with Morphological Operations <i>Melinda Katona, László G. Nyúl</i></p>

Track Internet Based Computing and Systems (IBCS)

Nov, 28

Time / Room	Session
10:30 – 12:30 4 Seasons	<p>IBCS-S3: Multimedia and QoS <i>Chaired by Giandomenico Spezzano</i></p> <p>195 Quality of Experience as a Selection Criterion for Web Services <i>Felipe Lalanne, Ana Cavalli, Stephane Maag</i></p> <p>93 QoS-MONaaS: A Portable Architecture for QoS Monitoring in the Cloud <i>Ornella Adinolfi, Rosario Cristaldi, Luigi Coppolino, Luigi Romano</i></p> <p>136 QoS-Enhanced Broker for Composite Web Service Selection <i>Salem Chakhar</i></p> <p>3 Multimodal Approach for Emotion Recognition Using an Algebraic Representation of Emotional States <i>Imen Tayari Meftah, Nhan Le Thanh, Chokri Ben Amar</i></p> <p>207 Towards Digital Image Accessibility for Blind Users Via Vibrating Touch Screen: A Feasibility Test Protocol <i>Amine Awada, Youssef Bou Issa, Clara Ghannam, Joe Tekli, Richard Chbeir</i></p> <p>103 Evaluation of Voice-driven Web Application Architecture <i>Christine Niyizamwiyitira, Lars Lundberg, Mikael Svahnberg</i></p>
12:30 – 13:30	Conference Lunch
13.30 – 15:30	
15:30 – 16:00	Coffee Break
16:00 – 18:00	<p>IBCS-S 4: Cooperative and Distributed Systems <i>Chaired by Kokou Yetongnon</i></p> <p>166 Open Source Platforms for Internet Monitoring and Measurement <i>Giuseppe Aceto, Alessio Botta, Walter De_Donato, Pietro Marchetta, Antonio Pescapé, Giorgio Ventre</i></p> <p>157 Towards an Open and Interoperable Platform for Real Time Decision Making in Intelligent Cities <i>Alfio Costanzo, Alberto Faro</i></p> <p>65 An Intrusion and Fault Tolerant Forensic Storage for a SIEM System <i>Muhammad Afzaal, Cesario Di_Sarno, Salvatore D'antonio, Luigi Romano</i></p> <p>167 Static Verification of Wireless Sensor Networks with Formal Methods <i>Alessandro Testa, Antonio Coronato, Marcello Cinque, Juan Carlos Augusto</i></p> <p>39 Well Formed PetriNet for Reachability <i>Yuta Ikeda, Satoshi Shimada, Takao Miura</i></p>

Workshops

Time / Room Session

Workshop on Complex Networks and Applications (W-Complex Networks)

Nov, 28

10:30 – 12:30
Aminta

W-Complex Network-S3

Chaired by TBA

236 **Facencounter: Bridging the Gap between Offline and Online Social Networks**

Sabrina Gaito, Gian Paolo Rossi, Matteo Zignani

233 **The Role of Distances in the World Trade Web**

Francesco Picciolo, Tiziano Squartini, Franco Ruzzenenti, Riccardo Basosi, Diego Garlaschelli

249 **A Fitness Model for Epidemic Dynamics in Complex Networks**

Marco Alberto Javarone, Giuliano Armano

254 **Rumor Dynamics with Acceptability Factor and Inoculation of Nodes in Scale Free Networks**

Anurag Singh, Rahul Kumar, Yatindra Nath Singh

27 **Social Psychology Testing Platform Leveraging Facebook and SNA Techniques**

Andrea Biancini

12:30 – 13:30 Conference Lunch

Workshop on Web based and Distributed Information Systems (W-WebDis)

Nov, 28

13:30 – 15.30
4 Seasons

Chaired by Gayo Diallo

265 **Knowledge Repository as Entity Similarity Computing Enabler**

Mouhamadou Ba, Gayo Diallo

256 **Collaborative Incident Reporting with Linked Heterogeneous Information**

Vincent T.Y. Ng, Li Ho Leung

241 **Food Volume Estimation in a Mobile Phone Based Dietary Assessment System**

Md Hafizur Rahman, Qiang Li, Mark Pickering, Michael Frater, Deborah Kerr, Carol Bouchey, Edward Delp

211 **A Multi-policy Model for Access Control in Cooperative Information Systems**

Leslie Huin, Eric Disson, Danielle Boulanger

251 **A Conceptual Architecture for Semantic Mash Up Recommender Framework**

Geovanny Poveda Cardona, Mercedes Garijo

15.30 – 16:00 Coffee Break

Thursday Nov 29

Slot	Time	"Aminta" ROOM	"Four Seasons" ROOM	ROOM 3
Session 1	09:00 - 11:00	SIT-S11	SIT-S12	
Break	11:00 - 11:30	Coffee break		
Session 2	11:30 - 13:30	SIT-S13	SIT-S14	

08:30 – 11:30 **Registration**

11:00 – 11:30 **Coffee Break**

Track Signal and Image Technology (SIT)

Nov, 29

Time / Room	Session
09:00 – 11:00 Aminta	<p>SIT-S11: Efficient Image Processing <i>Chaired by Valerio Bellandi</i></p> <p>154 GPU Real-Time Medium Model for Artistic Temporally Coherent Rendering <i>Belhadj Farès, Suarez Jordane, Boyer Vincent</i></p> <p>174 An FPGA-based Real-time Background Identification Circuit for 1080p Video <i>Mariangela Genovese, Ettore Napoli</i></p> <p>192 Fast Image and Video Segmentation Based on Alpha-tree Multiscale Representation <i>François Merciol, Sébastien Lefèvre</i></p> <p>71 An Effective Method to Enhance the RDO Performance for H.264/AVC Video Coding <i>Wenshuo Zhou, Chun Yuan</i></p>
09:00 – 11:00 4 Seasons	<p>SIT-S12: Image Sequence Processing, Motion <i>Chaired by László G. Nyúl</i></p> <p>194 Error Propagation in Multi-Camera Tracking <i>Gabin Kayumbi, Pier Luigi Mazzeo, Andrea Cavallaro</i></p> <p>85 Unsupervised Mask Patterns Generation for Extracting Action Specific Motion Features <i>Shohei Ito, Takumi Hayashi, Kazuhiro Hotta</i></p> <p>117 Fingertip's Speed Analysis for Touch Detection Using a Smart Phone <i>S.N. Jensen, N.G. Myrtue, C. Pedersen, G. Tranchet, K. Nasrollahi, T.B. Moeslund</i></p> <p>189 Self-adaptive Feature Extraction Scheme for Mobile Image Retrieval of Flowers <i>Khin Hninn Phyu, Andrea Kutics, Akihiko Nakagawa</i></p> <p>170 First Steps Toward Spatio-Temporal Rheims Reconstruction Using Old Postcards <i>Barbara Romaniuk, Lara Younes, Éric Bittar</i></p>
11:00 – 11:30	Coffee Break
11:30 – 13:30 Aminta	<p>SIT-S13: Image Analysis 3 <i>Chaired by Hocine Cherifi</i></p> <p>159 Image Segmentation through a Hierarchy of Minimum Spanning Trees <i>Filippo Vella, Ignazio Infantino, Salvatore Gaglio, Gaspare Vetrano</i></p> <p>180 An Approach to Correcting Image Distortion by Self Calibration Stereoscopic Scene from Multiple Views <i>Arnaud S.R.M. Ahouandjinou, Eugène C. Ezin, Cina Motamed, Pierre Gouton</i></p> <p>78 Copy-Move Image Forgery Detection Using Multi-Resolution Weber Descriptors <i>Muhammad Hussain, Ghulam Muhammad, Sahar Q. Saleh, Anwar M. Mirza, George Bebis</i></p> <p>148 A Versatile Demosaicing Algorithm for Performing Image Zooming <i>Alain Horé, Djemel Ziou, Marie-Flavie Auclair-Fortier</i></p>



11:30 – 13:30
4 Seasons

SIT-S14: Theory and Methods

Chaired by Albert Dipanda

12 A Fuzzy-Logic Based Non Cooperative Target Recognition

Thomas Boulay, Julien Lagoutte, Ali Mohammad-Djafari, Nicolas Gac

36 Multinomial Bayesian Kernel Logistic Discriminant Based Method for Skin Detection

Idir Filali, Djemel Ziou, Nadja Benblidia

43 Local Multi-Modal SIFT Features in Co-registered Range and Intensity Images

Euan Strachan, Jan Paul Siebert

30 Methodology for the Construction and Enhancement of Risk-Parity Portfolios

Donnacha Daly, Sebastiano Rossi, Florian Herzog



That's All Folks

Location



The venue of the **8th International Conference on Signal Image Technology & Internet Systems (SITIS)** will be in **Sorrento**. Sorrento is perched high on the cliffs overlooking the Gulf of Naples offering breathtaking views of the spectacular landscape, which captivates visitors. The town gives its name to the Sorrentine peninsula, a large area of land extending from Vico Equense to Massa Lubrense, that is suspended between green mountains and transparent blue sea. The town has been a popular vacation and cultural destination of the Campania region in southern Italy for centuries. It offers a wide selection of accommodation in hotels of different categories.



The convenient geographical location makes it an ideal departure point for excursions to Capri, Ischia, Pompeii, Amalfi, Positano, Herculaneum, Paestum, and Vesuvius, all located within a 50 km radius. Sorrento was first a Phoenician Colony. Then it became a Port frequented by the Greeks for commercial activity with Naples and other southern cities. The Greeks named Sorrento "Syrenusion" or "Syreon", which means "Land of the Sirens" named after the mythological creatures that were half-women and half-fish. The sirens were mentioned in Homeros great epic poem, The Odyssey, as the beings that lured sailors to the Sorrentine shore with their seductive songs. Historically, the Oscans and Samnites first ruled Sorrento, then the Romans dominated it for a long time. They appreciated the natural beauty and climate of the area, and during the imperial period it became a holiday destination for patricians who built villas along the coast. Sorrento is the birthplace of the sixteenth century poet Torquato Tasso. The town was included among the main destinations of the Grand Tour in Italy in the eighteenth century. This natural paradise has attracted many foreign poets and writers, such as Robert Browning, James Fenimore Cooper, F. Marion Crawford, Norman Douglas, Henrik Ibsen, Harriet Beecher Stowe, and Alexis de Tocqueville. Other famous visitors include composer Robert Wagner, philosopher Friedrich Nietzsche, film director Vittorio De Sica and tenor Enrico Caruso.