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09-nov

	09h45		Official opening
			<i>Khalifa Djemal, William Puech, Jean-Yves Didier, University Paris-Saclay / University of Montpellier</i>
	10h00	Tutorial T1	Image quality assessment and saliency modelling...N/A <i>Liu Hantao, Cardiff University, UK</i>
		Chairs	Aladine Chetouani, University of Orléans
	11h00		Coffee break
	11h30	Tutorial T2	Computer-Aided Diagnosis on Medical Images : Application to neurodegenerative diseases classification tasks...N/A <i>Mouloud Adel, Aix-Marseille University, France</i>
		Chairs	Caroline Petitjean, University of Rouen
	12h30		Lunch
Special Session 1	14h00	Title	Advances in variational image processing
		Chairs	Noémie Debroux, Marie-Ange Lebre, Odysée Merveille, Antoine Vacavant, University of Clermont Auvergne / CREATIS Lyon
Invited speaker 1	14h05		Unfolding proximal algorithms...N/A <i>Jean-Christophe Pesquet, University of Paris Saclay, France</i>
		Page	
	15h00	3	Analysis of the weighted Van der Waals-Cahn-Hilliard model for image segmentation <i>Carole Le Guyader, Zoé Lambert, Caroline Petitjean</i>
	15h20	9	A Time-Dependent Joint Segmentation and Registration Model: Applications to Longitudinal Registration of Hepatic DCE-MRI Sequences <i>Noémie Debroux, Carole Le Guyader, Guillaume Lienemann, Benoît Magnin, Antoine Vacavant</i>
	15h40	15	Frame-based reflectance estimation from multispectral images for weed identification in varying illumination conditions <i>Anis Amziane, Olivier Losson, Benjamin Mathon, Aurélien Dumenil, Ludovic Macaire</i>
	16h00	22	Semantic Segmentation Post-processing with Colorized Pairwise Potentials and Deep Edges <i>Rémi Ratajczak, Carlos F Crispim-Junior, Béatrice Fervers, Elodie Faure, Laure Tougne</i>
	16h20		Coffee break
	16h40	Tutorial T3	Deep learning for medical imaging analysis (and beyond): latest advances and recipes for success <i>Oge Marques, Florida Atlantic University, USA</i>
		Chairs	Rachid Jennane, University of Orléans

10-nov

Oral Session 1		Title	Machine Learning Methods for Images and Video Analysis...N/A
		Chairs	Antoine Vacavant, University of Clermont Auvergne
	08h40	31	Sorting cells from fluorescent markers organization in confocal microscopy: 3D versus 2D images <i>Ali Ahmad, Carole Frindel, David ROUSSEAU</i>

09h00	37	Mixtures of Variational Autoencoders <i>Fei Ye, Adrian Bors</i>
09h20	43	Instance segmentation in fisheye images <i>Rémi Dufour, Cyril Meurie, Clément Strauss, Olivier Lézoray</i>
09h40	49	Literature Review of Deep Learning Models for Liver Vessels Reconstruction <i>Abir Affane, Marie-Ange LEBRE, Utkarsh Mittal, Antoine Vacavant</i>
10h00	55	Video Seals Recognition using Transfer Learning of Convolutional Neural Network <i>Ayoub Karine, Thibault Napoléon, Jean-Yves Mulo, Yves Auffret</i>
10h20		Coffee break

Oral Session 2

	Title	Machine Learning Methods and applications...N/A
	Chairs	Adrian Bors, University of York
10h40	61	Efficient Deep Face Alignment with Explicit Statistical Shape Models in Convolutional Neural Networks <i>Marcin Kopaczka, Justus Shock, Paul Kruse, Dorit Merhof</i>
11h00	67	CenterlineNet: Automatic Coronary Artery Centerline Extraction for Computed Tomographic Angiographic Images Using Convolutional Neural Network Architectures <i>Saïfeddine RJIBA, Thierry Urruty, Pascal Bourdon, Christine Fernandez-Maloigne, Roger Delepaul, Luc-Philippe CHRISTIAENS, Remy Guillevin</i>
11h20	73	Lifelong learning of interpretable image representations <i>Fei Ye, Adrian Bors</i>
11h40	79	A Study on the Impact of Training Data in CNN-Based Super-Resolution for low Bitrate End-To-End Video Coding <i>Fatemeh NASIRI, Wassim Hamidouche, Luce Morin, Nicolas Dhollande, Gilda Cochorel</i>
12h00	84	Deep-learning based segmentation of challenging myelin sheaths <i>Raphael JG Caillon, Thomas Le Couédic, Florence Rossant, Hélène Urien, Anne Joutel, Rikesh Rajani</i>

12h30 **Lunch**

Invited Speaker 2

14h00	Title	Adversarial attacks on image classifiers...N/A <i>Andrea CAVALLARO, Queen Mary University, UK</i>
	Chairs	William Puech, University of Montpellier

Oral Session 3

	Title	Image and video processing
	Chairs	Dionysis Goularas, University of Yeditepe
15h00	93	An original MRI-based method to quantify the Diffuse Low-Grade Glioma brain infiltration <i>Cyril Brzenczek, Sophie Mézières, Yann Gaudeau, Marie Blonski, Fabien Rech, Tiphaine Obara, Luc Taillandier, Jean-Marie Moureaux</i>
15h20	99	Localization and Correction of Corrupted Pixel Blocks in Noisy Encrypted Images <i>Pauline Puteaux, William Puech</i>
15h40	105	Image glossiness from curvelet features using SVM-based classification <i>Harsh Gandhi, P. Shabari Nath, Rajlaxmi Chouhan</i>
16h00	111	Efficient Implementation of Regional Mutual Information for the Registration of Road Images <i>Johann Lembach, Ronny Stricker, Horst-Michael Groß</i>

	16h20		Coffee break
Oral Session 4		Title	Pattern recognition and computer vision
		Chairs	Mourad Oussalah, University of Oulu
	16h40	119	4D Light Field Disparity Map Estimation using Krawtchouk Polynomials <i>Rui Lourenco, Daniel Rivero-Castillo, Lucas Thomaz, Pedro Amado Assuncao, Sergio Faria, Luís Távora</i>
	17h00	125	Reconciling Image Captioning and User's Comments for Urban Tourism <i>Yazid Bounab, Mourad Oussalah, Ahlam Ferdenache</i>
	17h20	131	Single-Modal Video Analysis of Personality Traits using Low-Level Visual Features <i>Daniel Helm, Martin Kampel</i>
	17h40	137	Image-based Classification of Honeybees <i>Stefan Schurischuster, Martin Kampel</i>

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Special Session 2	09h25	Title	Advanced Computational Intelligence in Medical and Biomedical Imaging
		Chairs	Yu Guo, Su Ruan, University of Rouen
	09h30	145	Data augmentation for multi-organ detection in medical images <i>Maryam Hammami, Denis Friboulet, razmig kechichian</i>
	09h50	151	Investigating CoordConv for Fully and Weakly Supervised Medical Image Segmentation <i>Rosana El Jurdi, Thomas Dargent, Caroline Petitjean, Paul Honeine</i>
	10h10	156	SegTHOR: Segmentation of Thoracic Organs at Risk in CT images <i>Zoé Lambert, Caroline Petitjean, Bernard Dubray, Su Ruan</i>
	10h30		Coffee break
	11h00	162	Assigning a new glioma grade label groundtruth for the BraTS dataset using radiologic criteria <i>Paul Dequidt, Pascal Bourdon, Carole Guillevin, Benoit Gianelli, Claire Boutet, Jean-Philippe Cottier, Jean-Noël Vallée, Christine Fernandez-Maloigne, Remy Guillevin</i>
	11h20	168	A 3D deep learning approach based on Shape Prior for automatic segmentation of myocardial diseases <i>Fabrice MERIAUDEAU, Khawla BRAHIM, Alain Lalande, Arnaud Boucher, Anis Sakly, Abdul Qayyum</i>
	11h40	174	Deep learning based automatic detection of uninformative images in pulmonary optical endomicroscopy <i>Thibaud Brochet, Jérôme Lapuyade-Lahorgue, Sébastien Bougleux, Mathieu Salaun, Su Ruan</i>
	12h30		Lunch
Invited Speaker 3	14h00	Title	Video Recognition from Large and Weakly-Labeled Image Datasets...N/A <i>Eric GRANGER, University of Québec, Canada</i>
		Chairs	Mouloud Adel, Aix-Marseille University
Oral Session 5		Title	Segmentation and video analysis based deep Learning approaches
		Chairs	Jenny Benois-Pineau, University of Bordeaux
	15h00	181	Deep Recognition-based Character Segmentation in Handwritten Syriac Manuscripts <i>Rita Fermanian, Charles Yaacoub, Adib Akl, Petra Bilane</i>
	15h20	187	Deep Unrolled Network for Video Super-Resolution <i>Benjamin Naoto Chiche, Arnaud Woiselle, Joana Frontera Pons, Jean-Luc Starck</i>

	15h40	193	Robust and discriminating face recognition system based on a neural network and correlation techniques <i>Ehsan Sedgh Gooya, Ayman AL FALOU</i>
	16h00	198	Features Understanding in 3D CNNs for Actions Recognition in Video <i>Kazi Ahmed Asif Fuad, Pierre-Etienne Martin, Romain Giot, Romain Bourqui, Jenny Benois-Pineau, Akka Zemhari</i>
	16h20		Coffee break
Oral Session 6		Title	Deep Learning applications
		Chairs	Caroline Petitjean, University of Rouen
	16h40	207	Fully automatic CNN-based segmentation of retinal bifurcations in 2D adaptive optics ophthalmoscopy images <i>Iyed Trimeche, Florence Rossant, Isabelle Bloch, Michel Paques</i>
	17h00	213	Symmetric adversarial poisoning against deep learning <i>Adrien CHAN-HON-TONG</i>
	17h20	218	Detection of asian hornet's nest on drone acquired FLIR and color images using deep learning methods <i>Tooba Shams, Pascal Desbarats</i>
	17h40	224	Impact of Deep Learning and Smartphone Technologies in Dermatology: Automated Diagnosis <i>Evgin Göçeri</i>
	18h00	230	Cloud Cover Nowcasting with Deep Learning <i>Léa Berthomier, Bruno Pradel</i>

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Oral Session 7		Title	Pattern recognition and computer vision
		Chairs	Rostom Kachouri, ESIEE
	08h40	239	Semantic image segmentation based on spatial relationships and inexact graph matching <i>Jérémy Chopin, Jean-Baptiste Fasquel, Harold Mouchère, Rozenn Dahyot, Isabelle Bloch</i>
	09h00	245	Fall Detection using Body Geometry in Video Sequences <i>Djamila Romaisa Beddiar, Mourad Oussalah, Brahim Nini, Yazid Bounab</i>
	09h20	250	Unsupervised segmentation of stents corrupted by artifacts in medical X-ray images <i>Hugo Gangloff, Emmanuel Monfrini, Christophe Collet, Nabil Chakfe</i>
	09h40	256	Predicting Brain Degeneration with a Multimodal Siamese Neural Network <i>Cecilia Ostertag, Marie Beurton-Aimar, Muriel Visani, Thierry Urruty, Karell Bertet</i>
	10h00	262	Combined Datasets For Breast Cancer Grading Based On Multi-CNN Architectures <i>Adel Abdelli, Rachida Saouli, Khalifa Djemal, Imane Youkana</i>
	10h20		Coffee break
Oral Session 8		Title	Image description and localization
		Chairs	Jean-Yves Didier, University of Paris-Saclay
	10h40	271	Taming the curse of dimensionality for perturbed token identification <i>Olga Assainova, Jérémy Rouot, Ehsan Sedgh-Gooya</i>

11h00	277	Cognitive tasks modelization and description in VR environment for Alzheimer's disease state identification <i>Florian Maronnat, Margaux Seguin, Khalifa Djemal</i>
11h20	284	Impact of Quality Of Images On Users Behavior On Social Media <i>Yazid Bounab, Mourad Oussalah, Djamila Romaisa Beddiar</i>
11h40	290	Robust Image Wafer Inspection <i>Massimiliano Barone</i>
12h00	296	Study of the influence of Age: Use of Sample Entropy and CEEMDAN on Navigation Data Acquired from a Bike Simulator <i>Antoine JAMIN, Guillaume DUVAL, Cédric ANNWEILER, Pierre ABRAHAM, Anne HUMEAU-HEURTIER</i>
12h20	302	Improved centerline tracking for new descriptors of atherosclerotic aortas <i>Hugo Gangloff, Emmanuel Monfrini, Mohamed Zied Ghariani, Mickaël Ohana, Christophe Collet, Nabil Chakfe</i>
12h40		Closing