

09-nov

09h45		Official opening	
		Khalifa Djemal, William Puech, Jean-Yves Didier, University Paris-Saclay / University of Montpellier	
10h00	Tutorial T1	Image quality assessment and saliency modelling <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 <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	Title	Unfolding proximal algorithms <i>Jean-Christophe Pesquet, University of Paris Saclay, France</i>
	15h00	P29	Analysis of the weighted Van der Waals-Cahn-Hilliard model for image segmentation <i>Carole Le Guyader, Zoé Lambert, Caroline Petitjean</i>
	15h20	P28	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	P13	Frame-based reflectance estimation from multispectral images for weed identification in varying illumination conditions <i>Anis Amziane, Olivier Loison, Benjamin Mathon, Aurélien Dumenil, Ludovic Macaire</i>
	16h00	P58	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 Universitys, USA</i>
		Chairs	Rachid Jennane, University of Orléans

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Oral Session 1	Title	Machine Learning Methods for Images and Video Analysis
	Chairs	Antoine Vacavant, University of Clermont Auvergne
08h40	P16	Sorting cells from fluorescent markers organization in confocal microscopy: 3D versus 2D images <i>Ali Ahmad, Carole Frindel, David ROUSSEAU</i>

	09h00	P18	Mixtures of Variational Autoencoders <i>Fei Ye, Adrian Bors</i>
	09h20	P22	Instance segmentation in fisheye images <i>Rémi Dufour, Cyril Meurie, Clément Strauss, Olivier Lézoray</i>
	09h40	P24	Literature Review of Deep Learning Models for Liver Vessels Reconstruction <i>Abir Affane, Marie-Ange LEBRE, Utkarsh Mittal, Antoine Vacavant</i>
	10h00	P33	Video Seals Recognition using Transfer Learning of Convolutional Neural Network <i>Ayoub Karine, Thibault Napoléon, jean-yves mulot, yves auffret</i>
	10h20		Coffee break
Oral Session 2		Title	Machine Learning Methods and applications
		Chairs	Adrian Bors, University of York
	10h40	P38	Efficient Deep Face Alignment with Explicit Statistical Shape Models in Convolutional Neural Networks <i>Marcin Kopaczka, Justus Shock, Paul kruse, Dorit Merhof</i>
	11h00	P50	CenterlineNet: Automatic Coronary Artery Centerline Extraction for Computed Tomographic Angiographic Images Using Convolutional Neural Network Architectures <i>Saifeddine RJIBA, Thierry Urruty, Pascal Bourdon, Christine Fernandez-Maloigne, Roger Delepaule, Luc-Philippe CHRISTIAENS, Remy Guillevin</i>
	11h20	P19	Lifelong learning of interpretable image representations <i>Fei Ye, Adrian Bors</i>
	11h40	P56	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	P59	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
		Chairs	Andrea CAVALLARO, Queen Mary University, UK
			William Puech, University of Montpellier
Oral Session 3		Title	Image and video processing
		Chairs	Dionysis Gouliaras, University of Yedetipe
	15h00	P25	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	P6	Localization and Correction of Corrupted Pixel Blocks in Noisy Encrypted Images <i>Pauline Puteaux, William Puech</i>
	15h40	P75	Image glossiness from curvelet features using SVM-based classification <i>Harsh Gandhi, P. Shabari Nath, Rajlaxmi Chouhan</i>
	16h00	P68	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	P60	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	P42	Reconciling Image Captioning and User's Comments for Urban Tourism <i>Yazid Bounab, Mourad Oussalah, Ahlam Fermenache</i>
	17h20	P64	Single-Modal Video Analysis of Personality Traits using Low-Level Visual Features <i>Daniel Helm, Martin Kampel</i>
	17h40	P65	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	P27	Data augmentation for multi-organ detection in medical images <i>Maryam Hammami, Denis Friboulet, razmig kechichian</i>
	09h50	P37	Investigating CoordConv for Fully and Weakly Supervised Medical Image Segmentation <i>Rosana El Jurdi, Thomas Dargent, Caroline Petitjean, Paul Honeine</i>
	10h10	P39	SegTHOR: Segmentation of Thoracic Organs at Risk in CT images <i>Zoé Lambert, Caroline Petitjean, Bernard Dubray, Su Ruan</i>
	10h30		Coffee break
	11h00	P55	Assigning a new glioma grade label groundtruth for the BraTS dataset using radiologic criteria <i>Paul Dequidt, Pascal Bourdon, Carole Guillemin, Benoit Gianelli, Claire Boutet, Jean-Philippe Cottier, Jean-Noël Vallée, Christine Fernandez-Maloigne, Remy Guillemin</i>
	11h20	P61	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	P66	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
		Chairs	Eric GRANGER, University of Québec, Canada 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	P71	Deep Recognition-based Character Segmentation in Handwritten Syriac Manuscripts <i>Rita Fermanian, Charles Yaacoub, Adib Akl, Petra Bilane</i>
	15h20	P69	Deep Unrolled Network for Video Super-Resolution <i>Benjamin Naoto Chiche, Arnaud Woiselle, Joana Frontera Pons, Jean-Luc Starck</i>

15h40	P70	Robust and discriminating face recognition system based on a neural network and correlation techniques <i>Ehsan Sedgh Gooya, Ayman AL FALOU</i>
16h00	P74	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 Zemmari</i>
16h20		Coffee break
Oral Session 6	Title Chairs	Deep Learning applications Caroline Petitjean, University of Rouen
16h40	P62	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	P8	Symmetric adversarial poisoning against deep learning <i>Adrien CHAN-HON-TONG</i>
17h20	P57	Detection of asian hornet's nest on drone acquired FLIR and color images using deep learning methods <i>Tooba Shams, Pascal Desbarats</i>
17h40	P47	Impact of Deep Learning and Smartphone Technologies in Dermatology: Automated Diagnosis <i>Evgin Göçeri</i>
18h00	P10	Cloud Cover Nowcasting with Deep Learning <i>Léa Berthomier, Bruno Pradel</i>

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Oral Session 7	Title Chairs	Pattern recognition and computer vision Rostom Kachouri, ESIEE
08h40	P52	Semantic image segmentation based on spatial relationships and inexact graph matching <i>Jérémie Chopin, Jean-Baptiste Fasquel, Harold Mouchère, Rozenn Dahyot, Isabelle Bloch</i>
09h00	P35	Fall Detection using Body Geometry in Video Sequences <i>Djamila Romaissa Beddiar, Mourad Oussalah, Brahim Nini, Yazid Bounab</i>
09h20	P15	Unsupervised segmentation of stents corrupted by artifacts in medical X-ray images <i>Hugo Gangloff, Emmanuel Monfrini, Christophe Collet, Nabil Chakfe</i>
09h40	P53	Predicting Brain Degeneration with a Multimodal Siamese Neural Network <i>Cecilia Ostertag, Marie Beurton-Aimar, Muriel Visani, Thierry Urruty, Karelle Bertet</i>
10h00	P48	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 Chairs	Image description and localization Jean-Yves Didier, University of Paris-Saclay
10h40	P54	Taming the curse of dimensionality for perturbed token identification <i>Olga Assainova, Jérémie Rouot, Ehsan Sedgh-Gooya</i>

- 11h00 P67** **Cognitive tasks modelization and description in VR environment for Alzheimer's disease state identification**
Florian Maronnat, Margaux Seguin, Khalifa Djemal
- 11h20 P41** **Impact of Quality Of Images On Users Behavior On Social Media**
Yazid Bounab, Mourad Oussalah, Djamila Romaissa Beddiar
- 11h40 P49** **Robust Image Wafer Inspection**
Massimiliano Barone
- 12h00 P51** **Study of the influence of Age: Use of Sample Entropy and CEEMDAN on Navigation Data Acquired from a Bike Simulator**
Antoine JAMIN, Guillaume DUVAL, Cédric ANNWEILER, Pierre ABRAHAM, Anne HUMEAU-HEURTIER
- 12h20 P17** **Improved centerline tracking for new descriptors of atherosclerotic aortas**
Hugo Gangloff, Emmanuel Monfrini, Mohamed Zied Ghariani, Mickaël Ohana, Christophe Collet, Nabil Chakfe
- 12h40 Closing**