

This is your chance to meet the speakers, ask your questions LIVE and discuss your collaborative ideas!

PRACTICAL INFO

• Registration (deadline: Feb 14, 2021) will be handled thorough GIDRM @ www.gidrm.org

• Fees: Free for 2020 GIDRM members, € 35 for non-GIDRM members. Includes 1-year GIDRM membership (valid throughout 2021) and free access to all 2021 GIDRM days and school held online.

• 30 ECM credits included for Medical Doctors, Physicists, Chemists, see <u>AGENAS</u> for full list (National Italian Health System)

			Progr	amme			
	Marco Geppi - University of Pisa (Italy) - Opening remarks		9:30				
	Nicola Toschi – University of Rome Tor Vergata (Italy) - Welcome and		9:40				
	Andrea Duggento – University of Rome Tor Vergata (Italy) - "Focus		9:50				
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	(Moderators: Federico Giove-Marcello Alecci. 10:30-13:30)	(Moderators: Allegra Conti - Andrea Duggento. 10:30-12:15	5)	Al for image analysis and statistical inference (Par (Moderators: Nicola Toschi. 12:30-13:00)	rt 1)	Al for neuroscience and clinical applications (Part 1) (Moderators: Silvia Minosse . 10:30-13:00)	
S	Keynote Lectures	Keynote Lectures		Keynote Lectures		Keynote Lectures	
ession	Jong Chul Ye – Korea Advanced Institute of10:30Science and Technology (Republic of Korea) -"Unsupervised deep learning for MRreconstruction using physics-informed cycleGAN"	Paul Rad – The University of Texas at San Antonio (United States) - "Explainable and Robust Deep Learning for Medical Domain"	0:30	Daniel Remondini / Gastone Castellani – Bologna University (Italy)- "Artificial Intelligence in MRI: from raw data to analysis"	10:30	Duygu Tosun-Turgut – San Francisco Veterans Affairs Medical Center (United States) - "Impact of AI and deep learning on imaging of neurodegenerative diseases"	10:30
SI		Oral Communications		Oral Communications		Hugo G. Schnack – UMC Utrecht (Netherlands) - "Al for psychiatric imaging: promises and challenges"	11:00
Paralle	Andreas Maier – Friedrich-Alexander-Universität11:35Erlangen-Nürnberg (Germany) "Known OperatorLearning - An approach to unite machinelearning, signal processing, and physics"Image: Comparison of the second sec	Riccardo Guidotti – University of Pisa (Italy) –11"Explaining Explanation Methods: from LIME toDoctorXAI"	1:00	Giovanna Maria Dimitri – Università degli Studi di Siena (Italy)- "Brain MRI segmentation and reconstruction. A Deep Learning perspective	11:20	Oral Communications Birgi Tamersoy – Siemens Healthcare (Italy) - "AI for healthcare«	11:40
Morning	Oral Communications Vegard Antun – University of Oslo (Norway) - "AI generated hallucinations in the sciences –On the stability accuracy trade-off in deep learning"	David Schneeberger – University of Vienna (Austria) – 11 "Quo vadis Europe? A comparative outlook at proposed	11:40	Tiago Azevedo – University of Cambridge (United Kingdom) - "A Deep Graph Neural Network Architecture for rs-fMRI Data »	12:00	Tommaso Banzato – University of Padova (Italy) - "Clinical Applications of AI in Diagnostic Imaging"	12:05
		explainability regulation"		Guy Gaziv - Weizmann Institute of Science (Israel) – "Self-Supervised Natural Image Reconstruction and Rich Semantic Classification from Brain Activity"	12:30	Antonio Maria Chiarelli – G. D'Annunzio University (Italy) - "A Machine Learning Framework for Assessing the Effect of Prematurity on MRI Metrics of Functional Connectivity and Regional Brain Structure"	12:30
		Lunch	Break	x (13:30-14:30)		\frown	
	Hardware and sequence design through AI (Moderators: Federico Giove– Marcello Alecci 14:30-17:50)	Current challenges and future perspectives (Moderators: Nicola Toschi - , 14:30-17:30)		AI for image analysis and statistical inference (part 2)	AI for neuroscience and clinical applications (Part 2)	

Keynote Lectures

Afternoon Parallel Sessions

Keynote Lectures

Reynote Lectures		Keynote Lectures		Oral Communications		Keynote Lectures	
Florian Knoll – NYU Langone Health (United States) – "Potential and potential pitfalls of AI for the diagnostic MRI pipeline"	14:30	Dr. Donatello Apelusion Gassi – Amazon Web Services (AWS), Dr. Giuseppe Leonardo Cascella – Idea75 - "Unstructured data, ML and AI for healthcare and industry	14:30	Mike Germuska – Cardiff University (United Kingdom)- "Robust estimation of cerebral oxygen metabolism with machine learning"	15:00	Federica Agosta – Vita-Salute San Raffaele University (Italy) - "Artificial intelligence for early diagnosis and clinical decision making in neurodegenerative disorders«	14:30
Jongho Lee – Seoul National University (Republic of Korea) –"Deep Designed RF"	15:25	4.0 applications"				Maryellen L. Giger – The University of Chicago (United States)- "Machine Learning on MRI of Breast Cancer"	15:15
Oral Communications		Roberto Basili – University of Rome Tor Vergata (Italy) - "Interpretability and Explainability in Machine Learning:	15:05	Simeon Spasov – University of Cambridge (United Kingdom)-"Overcoming the challenges of	15:30	Hugo Aerts – Harvard Medical School, Boston (United States) - "Artificial Intelligence in Cancer Imaging"	15:40
Mads Sloth Vinding – Aarhus University	16:05	perspective"		data paucity in deep learning for neuroimaging			
pulse sequence"						Oral Communications	
Manu Veliparambil Subrahmanian/Gianluigi16:40Veglia – University of Minnesota (United	Oral Communications Fabio Massimo Zanzotto – University of Rome Tor Vergata (Italy) - "Clinician-in-the-loop AI: for a fairer model of clinical	16:05	Marco Palombo – University College London (United Kingdom) - "Machine Learning Applications to Microstructure Imaging through	15:55	Claudio Luchinat – University of Florence (Italy) - "Predictive models from metabolomic data"	16:15	
States) – "Artificial Intelligence in RF Pulse Design: from High Resolution NMR to Imaging"	rates) – "Artificial Intelligence in RF Pulse known of the solution NMR to known of the solution NMR to had been solution to had been s	knowledge exploitation"		Diffusion MRI"		Prof. Patrick Bolan – University of Minnesota (United States) - "Improving Advanced Imaging Workflows with	16:50
Mehmet Akcakava – University of Minnesota	17:05	Marcello Cadioli - Philips Healthcare (Italy) -"AI for MRI: An industrial perspective and outlook"	16:20	Keynote Lectures		AI"	
(United States) - "Self-Supervised Deep Learning of MRI Reconstruction without Reference Data"	17.05	Stefano Diciotti – Bologna University (Italy)- "Current challenges and future perspectives of machine learning techniques in medical imaging"	16:35	Chen Qin - The University of Edinburgh (United Kingdom) - "Deep Learning for Dynamic MRI Reconstruction"	16:45	Allegra Conti – University of Rome Tor Vergata (Italy) - "Dissecting the progression of multiple sclerosis through explainable ML techniques"	17:30

Round Table (Moderator: Nicola Toschi, Marco Geppi 17:50 – 18:10)

All Keynotes – Invited Speakers – Attendees

Closure and Adjournment

(18:10 – 18. 20)















Extra Byte