



Consiglio
Nazionale delle
Ricerche



Istituto di Scienza e Tecnologie
dell'Informazione "A. Faedo"

ISTI-Day(s) 2020



Istituto di Scienza e Tecnologie dell'Informazione "Alessandro Faedo", Consiglio Nazionale delle Ricerche
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Program at a Glance

Day 1, Tuesday November 3rd, 2020

14:00 - 15:10	Opening & Awards
15:10 - 15:50	Scientific Talks (part I)
15:50 - 16:30	Poster Session (part I)
16:30 - 17:30	Scientific Talks (part II)
17:30	Closing

Day 2, Tuesday November 10th, 2020

14:00 - 15:20	Scientific Talks (part III)
15:20 - 16:00	Poster Session (part II)
16:00 - 17:00	Scientific Talks (part IV)
17:00 - 17:30	Closing

Day 3, Tuesday November 17th, 2020

14:00 - 15:20	Scientific Talks (part V)
15:20 - 16:00	Poster Session (part III)
16:00 - 17:00	Scientific Talks (part VI)
17:00 - 17:30	Closing



Program

Day 1: November 3rd, 2020

Access via Zoom: <https://us02web.zoom.us/j/85455777648>

Schedule	
14:00 - 14:30	Opening
14:30 - 15:00	Intervento del Direttore: ISTI performance, issues and perspectives, Roberto Scopigno
15:00 - 15:10	ISTI Awards ceremony, Franco Maria Nardini
15:10 - 15:50	Scientific Talks I
	Neural Information Retrieval Made Fast, <i>Franco Maria Nardini</i> #InformationRetrieval, #DeepLearning, #Efficiency The Human and Social dimension of AI, <i>Salvatore Rinzivillo</i> #HumanAI, #ExplainableAI, #DataEthics
15:50 - 16:00	Poster Fast Forward (1 minute speech for each poster)
16:00 - 16:30	Break & Poster Session I
16:30 - 15:30	Scientific Talks II
	Critical Infrastructure Resilience, <i>Giulio Masetti</i> #Dependability, #CriticalInfrastructure, #Model-basedAnalysis
	Surrogate Text Representation for Large-Scale Image Retrieval and Video Browsing, <i>Lucia Vadicamo</i> #MultimediaRetrieval, #InvertedIndex, #DeepFeatures
	Enacting Open Science Practices for Data-Driven Scientific Activities, <i>Massimiliano Assante</i> #OpenScience, #e-infrastructures, #CollaborativeEnvironments
17:30	Closing



Poster Session I, November 3rd, 16:00-16:30

Room 1: <https://us02web.zoom.us/j/89723789075>

VoxLogicA: a tool for declarative (medical) image analysis, *Gina Belmonte, Vincenzo Ciancia, Diego Latella, Mieke Massink*

#MedicalImaging, #Radiotherapy, #SpatialModelChecking

Room 2: <https://us02web.zoom.us/j/84456119314>

Combining GANs and AutoEncoders for Efficient Anomaly Detection, *Fabio Carrara, Giuseppe Amato, Luca Brombin, Fabrizio Falchi, Claudio Gennaro*

#VisualAnomalyDetection, #ImageGeneration, #AdversarialLearning

Room 3: <https://us02web.zoom.us/j/86767310130>

TagLab: An AI-assisted solution for the fast annotation and analysis of large images, *G. Pavoni, M. Corsini, F. Ponchio, A. Muntoni, P. Cignoni*

#Human-machine interaction, #Semantic segmentation, #Coral reef studies

Room 4: <https://us02web.zoom.us/j/85634136475>

Learning to Rank using Bivariate Scoring Functions, *Franco Maria Nardini, Roberto Trani, Rossano Venturini*

#InformationRetrieval, #Learning-to-Rank, #Pairwise scoring

Room 5: <https://us02web.zoom.us/j/82219419342>

EVA: Identifying and Exploiting Homogeneous Communities in Labeled Networks, *Salvatore Citraro, Giulio Rossetti*

#CommunityDiscovery, #Homophily, #LabeledNetworks

Room 6: <https://us02web.zoom.us/j/88254581633>

Time-varying epidemics model parameter estimation for COVID-19 using Unscented Kalman Filters, *Ercan E. Kuruoglu, Yang Li, Yicong Li, Calvin Chan*

#CompartmentalEpidemicModels, #SEIR, #UnscentedKalmanFilter

Room 7: <https://us02web.zoom.us/j/89101146846>

5G per Sicurezza Urbana e Agricoltura di Precisione, *Arturo Argentieri, Andrea Berton, Andrea Bragagnini, Erina Ferro, Claudio Gennaro, Claudio Vairo*

#5G connection, #SAPR, #UrbanSecurity, #PrecisionAgriculture

Room 8: <https://us02web.zoom.us/j/89506172406>

Face Recognition and Adversarial Attacks, *Fabio Valerio Massoli*

#AdversarialAttacks, #FaceRecognition, #CrossResolution



Day 2: November 10th, 2020

Access via Zoom: <https://us02web.zoom.us/j/85455777648>

Schedule		
14:00 - 15:20	Scientific Talks III	<p>Geometry for Fabrication, <i>Thomas Alderighi</i> #ComputationalFabrication, #ComputationalGeometry, #DigitalManufacturing</p> <p>New Approach to Underwater Technologies for Innovative, Low-cost Ocean Observation, <i>Gabriele Pieri</i> #MaritimeObservation, #MarineDataManagement, #UnderwaterTechnologiesForAugmentedObservation</p> <p>Environmental Sustainability of Large Satellite Constellations in Low Earth Orbit, <i>Luciano Anselmo</i> #SpaceDebris, #CriticalityIndex, #Megaconstellations</p> <p>Formal Representation of Narratives using Semantic Web Technologies, <i>Valentina Bartalesi</i> #Ontology, #SemanticWeb, #DigitalHumanities</p>
15:20 - 15:30	Poster Fast Forward (1 minute speech for each poster)	
15:30 - 16:00	Break & Poster Session II	
16.00 - 17.00	Scientific Talks IV	<p>Personalising automations in Ambient Assisted Living scenarios <i>Carmen Santoro</i> #EndUserDevelopment, #Personalisation, #Trigger-ActionRules</p> <p>Spots on KRR themes: Representing, Reasoning, Querying and Learning, <i>Giovanni Casini</i> #KnowledgeRepresentation&Reasoning, #IntelligentIntegration&AccessToData, #StatisticalRelationalLearning</p> <p>Edge Computing: how utility computing can support next generation applications, <i>Patrizio Dazzi</i> #EdgeComputing, #ServerlessComputing, #Microservices</p>
17:00 - 17:30	Closing	



Poster Session II, November 10th, 15:30-16:00

Room 1: <https://us02web.zoom.us/j/85373539509>

A multidisciplinary approach integrating geomatics, vibrations monitoring and finite element modelling to evaluate the conservation state of the Guimarães castle, *M. Girardi, M.G. Masciotta, C. Padovani, D.*

Pellegrini, L.J. Sánchez-Aparicio

#ArchitecturalHeritage #AmbientVibrationTest #DynamicIdentification

Room 2: <https://us02web.zoom.us/j/85388662847>

GDPR two years later: current state and future trend, *Rosaria Deluca, F. Volpini, V. Amenta*

#gdpr #Privacy #Accountability

Room 3: <https://us02web.zoom.us/j/82038198600>

ChromStruct: a method to obtain Chromatin 3D Structure integrating Hi-C, ChIP-Seq and RNA-Seq data,

Claudia Caudai, M. Zoppè, A. Tonazzini, I. Merelli, L. Milanese, E. Salerno

#Bioinformatics #StructuralGenomics #ChromosomeConformationAnalysis

Room 4: <https://us02web.zoom.us/j/89096221454>

Deep Relational Learning for Cross-Modal Retrieval, *Nicola Messina*

#RelationalLearning #DeepLearning #InformationRetrieval

Room 5: <https://us02web.zoom.us/j/86794348311>

Diff-vectors for Authorship Analysis, *Silvia Corbara, Alejandro Moreo, Fabrizio Sebastiani*

#TextClassification, #AuthorshipAnalysis, #LimitedDataset

Room 6: <https://us02web.zoom.us/j/89686749812>

Topic Propagation in Conversational Search, *Ida Mele, Cristina Ioana Muntean, Franco Maria Nardini,*

Raffaele Perego, Nicola Tonello, and Ophir Frieder

#ConversationalIR, #PassageRanking, #QueryRewriting

Room 7: <https://us02web.zoom.us/j/82006386634>

A Privacy-By-Design Architecture for Indoor Localization System, *Paolo Barsocchi, Antonello Calabrò,*

Antonino Crivello, Said Daoudagh, Francesco Furfari, Michele Girolami, Eda Marchetti

#IndoorLocalizationSystems #Location-based services #AccessControlSystem

Room 8: <https://us02web.zoom.us/j/82161042480>

OpenAIRE services to support research projects and infrastructures, *Paolo Manghi, Alessia Bardi,*

Claudio Atzori, Miriam Baglioni, Michele Artini, Michele De Bonis, Andrea Dell'Amico, Sandro La Bruzzo,

Andrea Mannocci, Enrico Ottonello

#OpenScience, #ResearchMonitoring, #FunderMandates



Day 3: November 17th, 2020

Access via Zoom: <https://us02web.zoom.us/j/85455777648>

Schedule		
14:00 - 15:20	Scientific Talks V	<p>The Email service migration, a cloud infrastructure, S2I2S services and support, <i>Andrea dell'Amico</i> #SupportServices, #CloudInfrastructure, #SAAS</p> <p>Formal Methods for the Reliability and Safety of Railway Systems, <i>Davide Basile</i> #FormalMethods, #Railway, #Verification</p> <p>SoBigData: a research infrastructure for social mining, <i>Luca Pappalardo</i> #ResearchInfrastructure, #BigData, #SocialMining</p> <p>Cybersecurity and Data Protection: Inside the Personal Data Lifecycle, <i>Said Daoudagh</i> #AccessControl, #DataProtection, #GDPR</p>
15:20 - 15:30	Poster Fast Forward (1 minute speech for each poster)	
15:30 - 16:00	Break & Poster Session III	
16:00 - 17:00	Scientific Talks VI	<p>ICT for Unmanned-Autonomous System, <i>Pietro Cassarà</i> #AutonomousSystems, #Cyber-PhysicalSystems, #MachineLearning</p> <p>Research graph of interlinked scientific products, <i>Alessia Bardi & Andrea Mannocci</i> #OpenScience, #ScholarlyCommunication, #OpenAIRE_eu</p> <p>Word-class Embedding for Multiclass Text Classification, <i>Alejandro Moreo</i> #TextClassification, #WordEmbeddings, #SupervisedRepresentations</p>
17:00 - 17:30	Closing	



Poster Session III, November 17th, 15:30-16:00

Room 1: <https://us02web.zoom.us/j/89776561014>

Pinocchio, art and technology: Collodi's "Piazzetta dei Mosaici" comes alive in Augmented Reality,

Fabrizio Matarese e James Magnavacca

#Pinocchio #AugmentedReality #CulturalHeritage

Room 2: <https://us02web.zoom.us/j/82433030457>

Computational design and optimization of structures for architecture, *Francesco Laccone, Luigi Malomo, Thomas Alderighi, Federico Ponchio, Marco Callieri, Paolo Cignoni*

#ArchitecturalGeometry, #ComputationalDesign, #Bending-ActiveStructures

Room 3: <https://us02web.zoom.us/j/89561215896>

Deep Learning Techniques for Visual Counting, *Luca Ciampi*

#ComputerVision #DeepLearning #Counting

Room 4: <https://us02web.zoom.us/j/81120962306>

Heterogeneous Document Embeddings for Multi-Lingual Text Classification, *Andrea Pedrotti, Alejandro Moreo, Fabrizio Sebastiani*

#MultiLingualTextClassification, #TransferLearning

Room 5: <https://us02web.zoom.us/j/88382745229>

Data Protection Compliance Through Access Control, *Said Daoudagh and Eda Marchetti*

#AccessControl, #DataProtection, #GDPR

Room 6: <https://us02web.zoom.us/j/85463817437>

Conformity: A Path-Aware Homophily Measure for Labeled Networks, *Giulio Rossetti, Salvatore Citraro, Letizia Milli*

#NetworkMeasures #Homophily #LabeledNetworks

Room 7: <https://us02web.zoom.us/j/83120459426>

The Importance of Being Nearest, A Simulated Comedy for Serious Intelligence, *Marco Di Benedetto*

#VirtualWorld, #TransferLearning, #ReinforcementLearning

Room 8: <https://us02web.zoom.us/j/84937175665>

The COVID-19 gateway: discovering coronavirus research results at the time of the COVID-19 emergency, *Paolo Manghi, Alessia Bardi, Emma Lazzeri, Claudio Atzori, Miriam Baglioni, Gina Pavone, Michele Artini, Michele De Bonis, Andrea Dell'Amico, Sandro La Bruzzo, Andrea Mannocci, Enrico Ottonello*

#Coronavirus #OpenScience #OpenAIRE