

# 4th Italian Workshop on Machine Learning and Data Mining (MLDM.it 2015)

## Main Room (T-1F)

<b>08:30 - 14:30</b>	<b>Registration</b>	<b>Main Room Entrance (T-1F)</b>
08:50 - 09:00	Opening	
<b>9.00-9.10</b>	<b>MLDM.it Welcome</b>	
<b>9.10-10.30</b>	<b>Session 1: Complex data analysis</b>	
9.10-9.30	Annalisa Appice, Donato Malerba: <i>Mining Time-Adaptive Interpolative Clusters: Linking Interpolation to Summarization in Geophysical Data Streams</i>	
9.30-9.50	Simone Calderara: <i>Visual Detection of small groups and leaders in crowd through structured learning</i>	
9.50-10.10	Salvatore Gaglio, Giuseppe Lo Re, Marco Morana: <i>Real-Time Topic Detection in Twitter</i>	
10.10-10.30	Alessandro Zandonà, Marco Chierici, Giuseppe Jurman, Cesare Furlanello: <i>Choice of Training-Validation partitions impacts predictive performance</i>	
<b>10:30 - 11:00</b>	<i>Coffee break</i>	<i>Acquario Room (G-GF)</i>
<b>11:00 - 12:30</b>	<b>Session 2: Deep learning</b>	
11.00-11.20	Luca Pasa, Alessandro Sperduti, Alberto Testolin: <i>Two approaches for Recurrent Neural Networks Pre-training</i>	
11.20-11.40	Monica Bianchini, Franco Scarselli: <i>On the Complexity of Neural Network Classifiers: A Comparison between Shallow and Deep Architectures</i>	
11.40-12.00	Claudio Gallicchio, Alessio Micheli: <i>Deep Reservoir Computing</i>	
12.00-12.20	Antonio Vergari, Nicola Di Mauro, Floriana Esposito: <i>Tweaking Sum-Product Network Structure Learning</i>	
<b>12:30 - 14:30</b>	<i>Lunch</i>	<i>Acquario Room (G-GF)</i>
<b>14:30 - 16:00</b>	<b>Session 3: Learning models and analysis (I)</b>	
14.30-14.50	Elena Bellodi, Giuseppe Cota, Evelina Lamma, Fabrizio Riguzzi, Riccardo Zese: <i>Distributed Probabilistic Logic Learning</i>	
14.50-15.10	Ilja Kuzborskij, Barbara Caputo: <i>Truly scalable latent locally linear SVMs</i>	
15.10-15.30	Giorgio Gnecco, Alberto Bemporad, Marco Gori, Rita Morisi, Marcello Sanguineti: <i>A model of online learning as a Linear Quadratic Gaussian (LQG) optimal control problem with random matrices</i>	
15.30-15.50	Pietro Cottone, Salvatore Gaglio, Giuseppe Lo Re, Marco Ortolani: <i>Grammatical Inference for Structural Knowledge Extraction</i>	
<b>16:00 - 16:30</b>	<i>Coffee break</i>	<i>Acquario Room (G-GF)</i>

<b>16:30 - 17.45</b>	<b>Session 4: Learning models and analysis (II)</b>
16.30- 16.50	Fabrizio Costa: <i>RNAynth: a graph kernel approach to learn constraints for RNA inverse folding</i>
16.50- 17.10	Fabio Massimo Zanzotto, Lorenzo Dell’Arciprete, Lorenzo Ferrone: <i>Transducing Sentences to Syntactic Feature Vectors: an Alternative Way to “Parse”?</i>
17.10- 17.30	Lorenza Saitta: <i>Conceptual change as a cognitive phase transition</i>
17.30- 17.45	Marcello Sanguineti, Vera Kurkova: <i>Model complexities of shallow neural networks for the approximation of input-output mappings with large variations</i>
<b>17.45- 18.00</b>	<b><i>Discussion and Conclusions: The future of MLDM</i></b>