Dipartimento di Economia

65127 PESCARA - V.le Pindaro, n. 42
Tel. 085.4537885 / 085.4537560 – Fax 085.4537565 / 085.4537639
e-mail: dipartimento.economia@pec.unich.it

First Italian School in Geometric Deep Learning GeoDL2022

This is to certify that

Daniele LIZZIO BOSCO

has actively participated in GeoDL2022, held in Pescara, Italy, from July 25th to July 28th, 2022. The school consists of 8 lectures of 3h each, and a final class of 1.5h, for a total of 25.5h.

Maurizio Parton

Maurizio Parton

Geometric Deep Learning First Italian School

July 25–28, 2022 – viale Pindaro 42, Pescara (IT)

Room 9-11

	Mon, 25th July	Tue, 26th July	Wed, 27th July	Thu, 28th July
09:00 10:30		Introduction to GDL *(Michael Bronstein)*	Equivariant/steerable CNNs on Euclidean spaces and their generalization to Riemannian manifolds (coordinate independent CNNs), part II *(Maurice Weiler)*	Curvature on graphs and graph rewiring *(Francesco Di Giovanni)*
10:30 11:00		Coffee break	Coffee break	Coffee break
11:00 12:30		GDL on simplicial/cell complexes *(Cristian Bodnar)*	Gauge equivariant CNNs on meshes in practice with applications to the medical domain *(Pim de Haan)*	An overview of GNNs as a dynamical system *(Francesco Di Giovanni)*
12:30 14:00		Lunch	Lunch	Lunch
14:00 15:30	**Registration**	Discrete sheaf theory and applications to ML *(Cristian Bodnar)*	Hands-on session	Hands-on session
15:30 17:00	A quick review of prerequisites and basic notions needed in the lectures	Hands-on session		
17:00 17:30	Coffee break	Coffee break	Coffee break	Coffee break
17:30 19:00	A quick review of prerequisites and basic notions needed in the lectures	Equivariant/steerable CNNs on Euclidean spaces and their generalization to Riemannian manifolds (coordinate independent CNNs), part I *(Maurice Weiler)*	Generalizations of equivariance from groups to groupoids, applied to graphs, meshes and point clouds *(Pim de Haan)*	Future perspectives and open problems *(Michael Bronstein)*