



CENTER FOR  
COMPLEXITY  
& BIOSYSTEMS

University of Milan

# 6<sup>TH</sup> CC&B WORKSHOP DECEMBER, 10<sup>TH</sup> 2022 (ITALIAN TIME)

VILLA MONASTERO  
VARENNA, ITALY

10.00-10.30

**Hands-on Graph Neural Networks with Pytorch  
(tutorial)**

**DAVIDE D'ASCENZO**

*CC&B, Department of Informatics,  
University of Milan, Italy*

10.30-10.45

**Monotonicity of Centralities in Undirected  
Networks**

**FLAVIO FURIA**

*CC&B, Department of Informatics,  
University of Milan, Italy*

10.45-11.00

**Predicting microclimate conditions with  
a mechanistic model supported by AI**

**MARCO ZANCHI, STEFANO ZAPPERI,  
CATERINA A. M. LA PORTA**

*CC&B, Department of Environmental Science and Policy,  
Department of Physics, University of Milan,*

11.00-11.30

Coffee break

11.30-11.45

**Fungal-fungal interactions: A study of three  
Trichoderma strains against plant-associated  
fungi, isolated from Northern Italy**

**MARIANNA DOUROU AND CATERINA A. M. LA PORTA**

*Department of Environmental Science and Policy, CC&B,  
Innovation for Well-Being and Environment, University  
of Milan, Milan, Italy*

11.45-12.00

**Rigidity of cellular structures**

**EDOARDO NAGGI, STEFANO ZAPPERI**

*CC&B, Department of Physics, University of Milan, Italy*

12.00-12.15

**Designing Mechanical Metamaterials for Industries**

**RAJA ZULKARNAIN, ROBERTO GUERRA,  
STEFANO ZAPPERI**

*CC&B, Department of Physics, University of Milan, Italy*

12.15-12.30

**Low-Frequency Vibrational Modes  
in High Entropy Alloys**

**SILVIA BONFANTI**

*NOMATEN, NCBJ, Poland*

12.30

Acknowledgements and conclusions

12.45

Lunch