

DOCTORAL COURSE & SUMMER SCHOOL

In conjunction with ISTE 2025 Conference Artificial Intelligence in Structural Engineering

3-Day Intensive Course on Machine Learning Tailored for Architecture & Civil Engineering PhD Candidates, Researchers, and Enthusiasts

University of Perugia, Ítaly

Politecnico di Torino, Italy

Politecnico di Torino, Italy

Roma Tre Univ., Italy

M.M. Rosso G. C. Marano C. Demartino M. Broccardo University of Trento, Italy

G. Quinci Roma Tre Univ.. Italy

G. Quaranta Sapienza Univ. of Rome, Italy

Data Exploration Python Fundamentals, Machine Learning Basics,

> Data Exploration, Classifiers, Gaussian **Process Regression**

Day 1 - Sept, 18th

Machine Learning

Basics &

Day 2 - Sept, 19th

Neural Networks Basics, Feed-Forward ANN, Advanced Neural Networks: CNNs, RNNs, LSTM, Autoencoders, GANs

Day 3 - Sept, 20th

Regression Methods

Decision Trees, Random Forests, Boosting, Symbolic Regression, Computational Intelligence

VENUE Room 7

Politecnico di Torino C.so Duca degli Abruzzi, 24 10129, Turin, Italy



SUMMER SCHOOL ARTISTE 2025 In-person & Remote Attendance

Mastering your Research in Civil Engineering & Architecture with cutting-edge Machine Learning

IN JUST 3 DAYS!

EXPECTED GOALS

- Establish Core ML Foundations
- Hands-On in Google Colab
- Learn Python with PyTorch, TensorFlow, Scipy and more
- **Explore Symbolic Regression &** Computational Intelligence
- **Optimize Model Performance**
- **Integrate Advanced Techniques** into your Research Field

REGISTRATION

NO registration fees, but only a contribution is required for covering event logistics and services:

> In-person Remote Attendance 100 €

150 € + VAT

Pre-register on our website & book your spot before August, 31st 20<u>2</u>5





WEBINAR SERIES: DISTINGUISHED LECTUR

From September, 22nd to December, 12th 2025

Education

Learn with Experts

Eminent Speakers For Real-World Applications

M. Schields G. Karniadakis Brown University, **AZII**





Web-Streaming available on CASSYNI Platform

Knowledge





K. E. Willcox University of Texas at Austin, USA

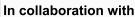


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Enrollments

are OPEN!

















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