



## PhD course announcement

### Machine Learning and Human-Computer Interaction in Supply Chain Management

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*The course is presenting basics and recent research state-of-the-art regarding the applications of machine learning and artificial intelligence as well as human-computer interaction in supply chain management and logistics. Student evaluation will be implemented as short presentations and Q&A sessions in the last course schedule.*

#### **Course prerequisites**

*This course requires no prior qualification, a basic understanding of mathematics and operations research is beneficial*

<b>What?</b>	3 lectures of 2 hours each plus examination
<b>Where?</b>	Online / Digital
<b>When?</b>	Tuesday September 22, 11:00-13:00 (Lecture) Tuesday September 22, 14:00-16:00 (Lecture) Wednesday September 23, 11:00-13:00 (Lecture) Wednesday September 23, 14:00-16:00 (Examination: Presentations)

#### **Contents:**

##### **Lecture 1: Introduction and background (I)**

- Introduction session, course organization and examination
- Artificial intelligence and machine learning principles
- Weak and strong AI, advantages and limitations of ML

##### **Lecture 2: Human-Computer Interaction (II)**

- Success factor HCI
- Hurdles and employee groups for HCI
- Instruments supporting HCI and best practices

##### **Lecture 3: Application Examples**

- Warehousing and retail logistics
- Supply chain planning and inventory control
- Transportation applications

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| ✓ | Participation to the course and passing examination provides 2 CFU  |
| ✓ | It is requested a registration sending an email to <a href="mailto:roberto.montemanni@unimore.it">roberto.montemanni@unimore.it</a> |