**Artificial Intelligence for Connected Industries (AI4CI)**

Camelia Chira, Anca Andreica
Babeş-Bolyai University, Cluj-Napoca, Romania
Web: https://ai4ci.eu/ , https://www.cs.ubbcluj.ro/artificial-intelligence-for-connected-industries-ai4ci-master-programme/

The goal of the European project **Artificial Intelligence for Connected Industries** (AI4CI) is to launch a new European master programme to train new experts in applied AI to networked systems used in connected industries. The project started on November 2023 and is co-funded by the European Commission through its Digital Skills program meant to support the creation of new training programs in advanced areas of computer science such as Artificial Intelligence (AI), robotics, Internet of Things (IoT) and cybersecurity. AI4CI is a research-oriented master programme that is at the crossing of these four areas, and which introduces new teaching methodologies.

The AI4CI master programme offers cutting-edge, up-to-date master curriculum covering all latest advances in the design and operation of AI systems integrated with Internet of Things, Cloud Networking, and Robotics technologies shaping the Connected Industry. The master training program covers fundamentals of artificial intelligence and machine learning applied to networked systems, automatics and advanced automation for industrial networks and robotics, advanced network architectures, IoT and computer systems. The Syllabus will be updated yearly. For example, current investigations focus on how to integrate advanced AI techniques such as graph neural networks and generative AI in digital twin systems and augmented/virtual reality (AR/VR) applications.

The AI4CI master is opened in seven cities from five countries: France, Germany, Romania, Spain, and Ukraine. Five Small and Medium Entreprises (SMEs), two additional universities and three research centers, from the same countries as well as Greece, Italy and Switzerland, contribute to both the teaching and the training activities. The AI4CI programme has been launched in September 2024 at three sites (Conservatoire National des Arts et Metiers CNAM Paris – France, CNAM Grand-Est Mulhouse – France, National Technical University of Ukraine Kiev – Ukraine) followed by another four sites in September 2025 (Avignon Université – France, Ulm University – Germany, Babeș-Bolyai University – Romania, Universitat Politècnica de Catalunya – Spain).