Artificial Intelligence for Digitizing Industry

Fact Sheet

Project Information

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<th>Grant agreement ID: 826060</th>
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<td>Funded under H2020-EU.2.1.1.7.</td>
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<td>Overall budget € 30 062 525</td>
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<td>EU contribution € 8 763 190,67</td>
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Start date 1 May 2019  End date 30 November 2022

Coordinated by INFINEON TECHNOLOGIES AG Germany

Project description

An artificial intelligence boost for European industry

Artificial intelligence plays a central role in societies, economies and industries around the world. However, there has been a lack of AI integration in Europe. As a result, potential users are not sufficiently supported despite the benefits it can provide to all branches of the industry and its digitisation. The EU-funded AI4DI project aims to transfer machine learning (ML) and AI from the cloud to the digitising industry. It will use a seven-key-target approach to evaluate and improve its relevance within the industry. The project plans to connect factories, processes and devices within the digitised industry by utilising ML and AI. It will then collect data on their performance.
Objective

Europe has a lack of intellectual property in integrating artificial intelligence (AI) into digital applications. This is critical since the automatization reached saturated levels and AI in digitisation is an accepted approach for the upcoming transformation of the European industry. The potential of AI in economy and society is by far not enough exploited. Potential users of AI are not sufficiently supported to facilitate the integration of AI into their applications. Enabling of performance, industry and humanity by AI for digitising industry is the key to push the AI revolution in Europe and step into the digital age. Existing services providing state of the art machine learning (ML) and artificial intelligence solutions are currently available in the cloud. In this project, we aim to transfer machine learning and AI from the cloud to the edge in manufacturing, mobility and robotics. To achieve these targets we connect factories, processes, and devices within digitised industry by utilizing ML and AI for human machine collaboration, change detection, and detection of abnormalities. Hence, we gain knowledge by using existing data and arrange them into a processable representation or collect new data. We use this knowledge to change the semantics and the logical layer with a distributed system intelligence for e.g. quality control, production optimization. In AI4DI, we define a 7-key-target-approach to evaluate the relevance of AI methods within digitised industry. Each key target represents a field of activity and the corresponding target at the same time, dividing systems into heterogenous and homogenous systems, and evolving a common AI method understanding for these systems as well as for human machine collaboration. Furthermore, we investigate, develop and apply AI tools for change detection and distributed system intelligence, and develop hardware and software modules as internet of things (IoT) devices for sensing, actuating, and connectivity processing.

Fields of science

Programme(s)

Topic(s)

Call for proposal

H2020-ECSEL-2018-2-RIA-two-stage-1

Funding Scheme
Coordinator

INFINEON TECHNOLOGIES AG

Address
Am Campeon 1-15
85579 Neubiberg
Germany

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

EU contribution
€ 950 000,94

Website
Contact the organisation

Participants (41)

AUDI AKTIENGESELLSCHAFT

Germany

EU contribution
€ 500 593,75

Address
Auto-union-str. 1
85057 Ingolstadt

Activity type
Private for-profit entities
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FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

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EU contribution
€ 199 635,19

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Hansastrasse 27C
80686 Munchen

Activity type
Research Organisations

Website
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TECHNISCHE UNIVERSITAET DRESDEN

Germany

EU contribution
€ 336 325,50

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Helmholtzstrasse 10

Activity type
Higher or Secondary
TECHNISCHE UNIVERSITAET MUENCHEN

Germany
EU contribution
€ 259 135,19
Address
Arcisstrasse 21
80333 Muenchen
Activity type
Higher or Secondary Education Establishments
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AVL LIST GMBH

Austria
EU contribution
€ 424 511,25
Address
Hans-list-platz 1
8020 Graz
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

INFINEON TECHNOLOGIES AUSTRIA AG

Austria
EU contribution
€ 300 000
Address
Siemensstrasse 2
9500 Villach
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

TECHNISCHE UNIVERSITAET GRAZ

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EU contribution
€ 128 335,38
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Contact the organisation [here](#) for more information on TECHNEXT, UNIVERSITE DE REIMS CHAMPAGNE-ARDENNE, and INSTITUT POLYTECHNIQUE DE GRENOBLE.
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INFORMATION TECHNOLOGY FOR MARKET LEADERSHIP

Greece
EU contribution
€ 140 625
Address
Katechaki 22
115 25 Athina
Activity type
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(excluding Higher or Secondary Education Establishments)

KNOW-CENTER GMBH RESEARCH CENTER FOR DATA-DRIVEN BUSINESS & BIG DATA ANALYTICS

Austria
EU contribution
€ 149 999,94
Address
Inffeldgasse 13/6
8010 Graz
Activity type
Research Organisations
Website

MURATA ELECTRONICS OY

Finland
EU contribution
€ 85 812,50
Address
Myllynkivenkuja 6
01620 Vantaa
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

TEKNOLOGIAN TUTKIMUSKESKUS VTT OY

Finland
EU contribution
€ 340 552,19
Address
Activity type

Contact the organisation

Contact the organisation

Contact the organisation

Contact the organisation
VRANKEN-POMMERY-MONOPOLE

France
EU contribution
€ 105 851,88

Address
5 Place Du General Gouraud
51100 Reims

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

OSTBAYERISCHE TECHNISCHE HOCHSCHULEAMBERG-WEIDEN

Germany
EU contribution
€ 228 533,38

Address
Kaiser Wilhelm Ring 23
92224 Amberg

Activity type
Higher or Secondary Education Establishments

Contact the organisation

VAISTO SOLUTIONS OY

Finland
EU contribution
€ 143 842,50

Address
Hermiankatu 6/8
33720 Tampere

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

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COGNITION FACTORY GMBH

Germany
EU contribution
€ 138 375
Address
Frei-otto-str. 22
80797 Munchen

Activity type
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SYMATE GMBH
Germany
EU contribution
€ 100 125

Address
Georg Treu Platz 3
01067 Dresden

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

TTTECH INDUSTRIAL AUTOMATION AG
Austria
EU contribution
€ 74 805,63

Address
Schonbrunnerstrasse 7
1040 Wien

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

INTELLECTUAL LABS AS
Norway
EU contribution
€ 131 062,50

Address
Dronning Eufemias Gate 16
0191 Oslo

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation