

D3.1 1st report on mentoring activities

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1. HISTORY OF CHANGES

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2. ABSTRACT

A mentorship programme, is conceived and developed in the frame of DiTArtIS to match mentors with mentees, and establish an environment for desirable mentor-mentee research outcomes. The programme is designed to be dynamic and open to modifications based on periodic surveys and evaluations by all the participants. Three target groups are defined, young researchers coming from UTC and twinning partners, young researchers coming from other countries, and highly skilled researchers from UTC and twinning partners.

First, we defined mentors, experienced researchers from UTC and partner organizations who guide mentees in setting goals and career plans. We selected 10 mentors and initiated their training through a two-month program in coordination with CoachConnect. After successfully completing the coaching program, we advertised the mentorship program through various channels to recruit 18 to 24 young researchers both within and outside the consortium. Each mentor created a profile for potential mentees to choose from, resulting in the list of mentees, with each mentor recruiting four mentees. For the young researchers target groups, three course modules for intermediate and advanced digital skills development will be organized.

3. ACTIVITIES CARRIED OUT DURING THE REPORTING PERIOD

Three target groups are defined. Target group 1 consists of 26 young researchers coming from UTC and twinning partners. Target group 2 includes 6 young researchers coming from other countries (including third countries). Target group 3 gathers highly skilled researchers from UTC and twinning partners (10 mentors) interested in supporting in guiding career development and/or integration of young researchers in the research teams.

As the first activity, the mentors have been defined in T3.1 (Built-up the list of mentors). Mentors are experienced and senior researchers of UTC and the partners that are able to guide the mentees to develop goals and individual career plans. 10 mentors have been chosen and invited as listed in table 1.

Then, based on T3.3 (Development and implementation of the mentorship programme), the confirmed mentors started their training program. A two-month coaching program under the coordination of CoachConnect (<https://coachconnect.ro/en/home/>) has been performed linked to WP4. Mentors have finished the coaching program successfully. Next step was opening the list of mentees and each mentor provided a description of themselves.

Having the trained mentors, based on T3.2 (Define the list of mentees and their assignment to a mentor), we opened a list and advertised using different communication channels to find 18 to 24 young researches, inside and outside of the consortium, to participate in the mentorship program. Each mentor prepared a profile in order to disseminate among the young researchers so they could choose the coach they wanted to work with. The list of the mentees is shown in table 2. Each mentor recruits 4 mentees.

Table 1: List of mentors

Mentor	Affiliation	Email address
Ioana Gros	UTC	Ioana.vese@emd.utcluj.ro
Claudiu Oprea	UTC	Claudiu.oprea@emd.utcluj.ro
Caio Osorio	TY	caio.osorio@typhoon-hil.com
Alexandra Baicoianu	SISW	alexandra.baicoianu@siemens.com
Calin Husar	SISW	Calin.husar@siemens.com
Arpad Kerestely	SISW	Arpad.kerestely@siemens.com
Larisa Dunai	UPV	ladu@upv.es
Jose E Ruiz Sarrió	UPV	joruisar@die.upv.es
Mazaher Karimi	UV	mazaher.karimi@uwasa.fi
Xiaoshu Lu	UV	xiaoshu.lu@uwasa.fi

Table 2: List of mentees

Mentor	Mentee	Target group
Ioana Gros	Lucian Pintilie	Young researchers UTCN
	Sorin Salcu	Young researchers UTCN
	Diana Dumitriu	PhD student UTCN
	Teodora Pirvu	PhD student UTCN
Xiaoshu Lu	Tuomas Tiainen	Master student Aalto University
	Nebiyu Girgibo	Master student University of Vaasa
	Xiaolei Wang	Young researcher University of Vaasa
	Giang Tran	Master student University of Vaasa

Alexandra Baicoianu	Cristina Gavrilă	Master student Transylvania University/ young researcher Siemens
	Viorica Puscas	Student Transylvania University/ young researcher Siemens
	Ioana Lazareascu	PhD student Transylvania University/ researcher Siemens
	Roberta Luca	Master student Transylvania University/ young researcher Siemens
Arpad Kerestely	Daniela Sasu	Master student Transylvania University/ young researcher Siemens
	Codrut Plaiasu	Student Transylvania University/ young researcher Siemens
Calin Husar	Robert Szabo	Master student Transylvania University/ young researcher Siemens
	Zsolt Incze	Master student Transylvania University/ young researcher Siemens
	Gavriil Tulbure	Master student Transylvania University/ young researcher Siemens
	Sorin Balaceanu	Master student Transylvania University/ young researcher Siemens
Mazaher Karimi	Meysam Pashaei	Project researcher University of Vaasa
	Haresh Kumar	Project researcher University of Vaasa
	Hamza Mubarak	PhD student Griffith University, Australia
	Alireza Pourdaryaei	Researcher Hormozgan Regional Electric Company, Iran
Claudiu Oprea	Razvan Inte	PhD student UTCN
	Sorin Cosman	PhD student UTCN
	Alexandra Birou	Young researchers UTCN
	Patrick Cuth	Young researchers UTCN
Jose E Ruiz Sarrió	Vicente Biot-Monterde	PhD student UPV
	Angela Navarro- Navarro	PhD student UPV
	Geovanni Diaz- Saldaña	PhD student UAQ, Mexico
Larisa Dunai	Alvaro I. Alvarado- Hernandez	Master Student UAQ, Mexico

	Jonathan Cureño-Osorio	Master Student UAQ, Mexico
	Benyamin Soleimani	PhD student UPV

For the members of target groups 1 and 2, three course modules for intermediate and advanced digital skills development will be organized: Python programming, low code programming, machine learning and artificial intelligence for engineering applications. Each module will be organized as a combination of lectures (28 hours), applications (28 hours) and assignments, during three months and will be finalized with an exam.

Mentoring Activities:

Xiaoshu Lu:

- Review the scientific tasks and publications within WP1 of DiTArtIS and discuss the specific contributions and results with WP1 team members through several online and onsite meetings.
- Identify publication topics and provide mentoring guidance and support for mentee (e.g. Xiaolei Wang).
- Provide feedback and suggestions for mentees on both PhD and MSc research using the methods learnt from DiTArtIS project.
- Mentor preparing for the PhD defense, including providing various advises for presentations.
- Track the progress of MSc thesis work and give guidance on writing tasks. Review and provide feedback on the thesis contents.
- Develop a timeline for both PhD and MSc research progresses.
- Schedule periodic meetings to monitor progress, address concerns, and answer any questions from mentees. Encourage open communication and a supportive environment for their academic activities.
- Collaboratively working on a scientific publication involving members of WP 1 within the DiTArtIS project. This publication is scheduled to be submitted by the end of this year. The first author is Xiaolei Wang.
- Nebiyu Girgibo is on track to defend his PhD by the end of this year.
- Tuomas Tiainen is currently in the process of completing his MSc thesis and it is expected to be finalized within the next 2-3 months.

Alexandra Baicoianu, Arpad Kerestely, Calin Husar:

Every Monday morning, there is an internal DiTArtIS activities between 8 to 12, where one-hour discussions for each group of students are allocated.

Mzaher Karimi:

They have been worked on the research articles and be able to publish one in CIRED 2023 conference and one in the Expert Systems with Applications journal. It is worth noting that these collaborative publications have inspired them to continue their pursuit of further exploration in the application of AI for grid condition monitoring, predictive maintenance, and protection systems, driven by the ongoing process of digitalization.

Ioana Gros:

Their agenda contains 2 meetings a month, Thursday from 10.00 to 12.00

Claudiu Oprea:

The mentoring activities/meeting are set for Fridays, 11.00 AM

Jose E Ruiz Sarrió, Larisa Dunai:

Since the start of Ditartis several conference papers have been produced. Among the mentorship activities, developed during the first year, they include the realization of a visit by Jonathan Cureño-Osornio and Alvaro I. Alvarado-Hernandez at UPV, Valencia. During the visit, they have been instructed on different tools within the electric motors condition monitoring area and they have developed other different within the mentorship plan. These are prospective candidates toward a PhD at UPV.

4. DEVIATIONS FROM THE WORKPLAN

The connection of the mentors and mentees in TY has not been completed yet. It is supposed to be done until the end of November 2023.