



# PhD in INGEGNERIA DELL'INFORMAZIONE / INFORMATION TECHNOLOGY - 37th cycle

Research Area n. 1 - Computer Science and Engineering

THEMATIC Research Field: VIDEO-ANNOTATION SYSTEMS FOR EDUCATION

**Monthly net income of PhDscholarship (max 36 months)**

**€ 1400.0**

In case of a change of the welfare rates during the three-year period, the amount could be modified.

## Context of the research activity

<b>Motivation and objectives of the research in this field</b>	<p>The field of education is moving towards increasing teacher/students' interaction and students' agency, also by means of technologies; moreover, the pandemic (which is still affecting education systems) has furthermore highlighted the need for making hybrid learning experiences more effective. This research activity is about video-annotation systems, i.e. systems that allow students to provide feedback on the educational videos they are required to watch, in terms of understanding, comments, questions etc. More specifically, the research will investigate the feasibility of systems that allow to seamlessly integrate annotation systems of synchronous educational events (e.g. a lesson, a conference...) and asynchronous events (e.g. a flipped classroom scenario, in which students watch videos at their own pace and time), plus all the correlated instructor's dashboards with learning data.</p>
<b>Methods and techniques that will be developed and used to carry out the research</b>	<p>The research work will be developed at Politecnico's premises. The school of Industrial and Information Engineering will serve as test-bed for the prototypes being developed.</p>
<b>Educational objectives</b>	<p>The PhD candidate will learn how to elicit goals and requirements for the development of a tool and to run an evaluation of its usability and effectiveness, in the field of</p>



	education; s/he will also improve her technical skills in programming.
<b>Job opportunities</b>	The sector of educational technologies, also due to the Covid-19 pandemic, is booming: tech-companies and start-ups are interested in the development of such tools. It is planned to contact some companies active in this field in the course of the PhD (starting from the second year), to present the idea and set up a cooperation.
<b>Composition of the research group</b>	0 Full Professors 1 Associated Professors 0 Assistant Professors 0 PhD Students
<b>Name of the research directors</b>	Nicoletta Di Blas

<b>Contacts</b>
nicoletta.diblas@polimi.it, 0223993520

<b>Additional support - Financial aid per PhD student per year (gross amount)</b>	
<b>Housing - Foreign Students</b>	--
<b>Housing - Out-of-town residents (more than 80Km out of Milano)</b>	--

<b>Scholarship Increase for a period abroad</b>	
<b>Amount monthly</b>	564.01 €
<b>By number of months</b>	6

<b>Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information</b>
<p>The research will build upon an already existing tool (<a href="http://www.evoli.polimi.it">www.evoli.polimi.it</a>) that was successfully launched in March 2020 (version 1) and that has been used by thousands of users from all over the world.</p> <p>EDUCATIONAL ACTIVITIES (purchase of study books and material, including computers, funding for participation in courses, summer schools, workshops and conferences): financial aid per PhD student per year  2nd year: euros per student (1534)  3rd year: euros per student (1534)</p> <p>TEACHING ASSISTANTSHIP: (availability of funding in recognition of supporting teaching activities by the PhD student)</p>



There are various forms of financial aid for activities of support to the teaching practice. The PhD student is encouraged to take part in these activities, within the limits allowed by the regulations.

**COMPUTER AVAILABILITY:**

1st year: individual use

2nd year: individual use

3rd year: individual use

**DESK AVAILABILITY:**

1st year: individual use

2nd year: individual use

3rd year: individual use