

# PhD In Information Technology

## Research Area n. 3 - Title Systems&Control

**Specific Research Subject:**  
**“Analysis and development of methods and technologies  
for automated vehicles and mobility systems”**

<b>Scholarships and Financial support</b>	
Monthly net income of PhD scholarship (max 36 months)	€ 1400 (In case of a change of the welfare rates during the three-year period, the amount could be slightly modified)
Increase in the scholarship for stays abroad	€ 566,36 per month, for up to 6 months
Number of scholarships	<b>3</b>
Beginning of PhD	1 February 2021
Deadline for application	<i>3 December 2020</i>
<b>Context of the research activity</b>	
Motivations and objectives of the research in this field	The research will focus on the development of systems&control technologies (actuators, sensor, control algorithms), in the specific fields of vehicles and mobility systems. This is an emerging and rapidly developing field. The objective is to develop new methods and technology solutions.
Methods and techniques that will be developed and used to carry out the research	The methods and techniques which will be used are: <ul style="list-style-type: none"> <li>- Signal-processing and data-analysis</li> <li>- System-identification and virtual sensing</li> <li>- Advanced control algorithms</li> </ul>
Educational objectives	Develop new results and know-how in the field of design of advanced control systems for vehicles and

	mobility systems
Job opportunities	R&D engineer in vehicle-manufacturers companies (OEM) R&D engineer in Tier-1 suppliers companies in the vehicular industry Project manager in advanced mechatronics industry
Composition of the research group	MOVE research group: <a href="https://www.move.deib.polimi.it/">https://www.move.deib.polimi.it/</a> Number of Full Professors: 2 Number of Associate Professors: 2 Number of Assistant Professors: 3 Number of Post-Docs: 0 Number of PhD students: 20 Number of contracted researchers: 4
Names of the research directors	Prof. Sergio M. Savaresi
Contacts	<a href="mailto:Sergio.savaresi@polimi.it">Sergio.savaresi@polimi.it</a> , +39.02.2399.3545 <a href="https://www.deib.polimi.it/eng/people/details/358496">https://www.deib.polimi.it/eng/people/details/358496</a>
<b>Additional support</b>	
<u>Educational activities</u> (purchase of study books and material, funding for participation in courses, summer schools, workshops and conferences): financial aid per PhD student per year	2 <sup>nd</sup> year: max 1534,00 euro per student 3 <sup>rd</sup> year: max 1534,00 euro per student
<u>Teaching assistanship:</u> availability of funding in recognition of supporting teaching activities by the PhD student	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.
<u>Computer availability:</u>	1 <sup>st</sup> year: <i>individual use</i> 2 <sup>nd</sup> year: <i>individual use</i> 3 <sup>rd</sup> year: <i>individual use</i>
<u>Desk availability:</u>	1 <sup>st</sup> year: <i>individual use</i> 2 <sup>nd</sup> year: <i>individual use</i> 3 <sup>rd</sup> year: <i>individual use</i>