



PhD in INGEGNERIA DELL'INFORMAZIONE / INFORMATION TECHNOLOGY - 39th cycle

Research Area n. 1 - Computer Science and Engineering

**THEMATIC Research Field: FLIGHT CONTROL LAWS CLEARANCE BY MEANS OF EXPERT
SYSTEMS AND AI**

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	
Motivation and objectives of the research in this field	The research activity has the goal to develop intelligent tools for supporting human teams in the activities performed for flight clearance, with the potential to improve the quality and to reduce the costs of the process.
Methods and techniques that will be developed and used to carry out the research	The research activity will mainly employ artificial intelligence (AI) methods based on explicit rules, which could be hand-crafted or learned from observations. The focus will be on the identification and on the meaningful composition of the rules.
Educational objectives	Train students to academic and industrial practices relative to the use of advanced cutting-edge techniques to model and reason on complex activities relative to flight clearance.
Job opportunities	Private R&D. Highly qualified positions in industries related to development and use of complex flight systems.
Composition of the research group	2 Full Professors 0 Associated Professors 1 Assistant Professors 2 PhD Students
Name of the research directors	Prof. Francesco Amigoni and Prof. Marco Lovera



Contacts

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Additional support - Financial aid per PhD student per year (gross amount)	
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Housing - Foreign Students	--
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Housing - Out-of-town residents (more than 80Km out of Milano)	--
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Scholarship Increase for a period abroad	
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Amount monthly	700.0 €
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By number of months	6
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Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information

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.

TEACHING ASSISTANTSHIP: 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.

COMPUTER AVAILABILITY: individual use.

DESK AVAILABILITY: individual use.