

## Allegato 1.A



### INFORMAZIONI PERSONALI

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### WORK EXPERIENCE

- Dates March 2018 – today
- Name of Employer Politecnico di Torino
- Main activities and responsibilities Vice Rector for Technology Transfer
- Dates 2014-today
- Name of Employer Department of MECHANICAL AND AEROSPACE ENGINEERING – Politecnico di Torino  
Associate Professor  
Teaching : Control of mechanical systems, Mechatronics and Applied Mechanics

### TECHNICAL SKILLS AND COMPETENCES

- Modelling and simulation of integrated mechanical / fluid / electrical / electronic servosystems
- Functional and performance analysis of systems and components
- Definition of optimal control algorithms
- Systems functional design
- Systems test rigs design
- Systems testing

The design, analysis and synthesis of mechatronic systems is performed by use of physical models based mathematical simulations. Non-linear mathematical models representative of the physical systems are typically developed to ensure the most accurate simulation results and care is taken in getting the best compromise between model accuracy and mathematical complexity with its associated computational burden. During the initial phases of a new research project it's customary to develop linear mathematical models in order to extract analytic formulations useful to understand how each specific parameters affects the overall system performance.

## PATENTS

- BRACCO G, GIORCELLI E, MATTIAZZO G., PASTORELLI M (2009). CONVERTITORE DI ENERGIA MARINA. TO2009A000422
- MATTIAZZO G., GIORCELLI E, BRACCO G (2008). CONVERTITORE DI ENERGIA MARINA. TO2008A000444
- BRACCO G, GIORCELLI E, MATTIAZZO G., PASTORELLI M (2010). WAVE ENERGY CONVERTER. PCT/IB2010/052433
- BELFORTE G., COSTAMAGNA A., MATTIAZZO G. (2006): PRUNING MACHINE PCT7IB2007700912
- Ballabio M., Lo Presti G., Mattiazzo G., Orlando V., Corbellini S. (2010). METODO PER CONTROLLARE LA DEPOSIZIONE DI ELEMENTI SEMILAVORATI PER LA PRODUZIONE DI PNEUMATICI. MI2010A001191

## PUBLICATIONS

<http://porto.polito.it/view/creators/Mattiazzo=3AGiuliana=3A002290=3A.html>