

PROF. MATTEO ZOPPI

1. FORMAZIONE E CARRIERA

Laurea in Ingegneria meccanica nel 2000.

Dottorato in meccanica e costruzione delle macchine nel 2004 con una tesi che introduce nuove architetture di meccanismi paralleli e multiloop e metodi di analisi di mobilità e velocità usando screw theory.

Dal 2005 ricercatore universitario nel SSD ING-IND/13 in Università degli Studi di Genova.

Dal gennaio 2014 professore associato nel SSD ING-IND/13 in Università degli Studi di Genova.

Dal novembre 2021 professore ordinario nel SSD ING-IND/13 in Università degli Studi di Genova.

Dal 2014 responsabile di un gruppo di ricerca e un laboratorio sperimentale attivi su temi di robotica, automazione e mecatronica.

2. RICERCA

Dal 2001 al 2013, 5 progetti europei in FP5, 3 in FP6, 3 in FP7. Dal 2013 al 2021 responsabile scientifico di altri 3 progetti in FP7 e 1 in H2020. Dal 2015 a oggi altri circa 20 progetti finanziati, fra finanziamenti europei, nazionali/regionali e da aziende private, per un ammontare totale erogato per le attività di ricerca di UNIGE di circa 1.9 Meuro.

Al giugno 2021: coautore di 203 pubblicazioni dal 2001, 54 dal 2015, fra cui 62 articoli su riviste internazionali dal 2001, 28 dal 2015; in Scopus, 146 pubblicazioni con 919 citazioni e h-index 14; in Google Scholar, 1705 citazioni e h-index 19.

Al giugno 2021, titolare di 26 brevetti: 13 su argomenti di automazione flessibile, di cui 6 su dispositivi di presa e 3 su architetture di gripper; 6 brevetti su architetture di meccanismi per robotica; 4 brevetti su dispositivi per funzioni specifiche non industriali; 2 brevetti sull'uso di fluido bifase per realizzare attuazioni a rigidità variabile; 1 brevetto sull'uso di microonde per il riscaldamento di piante in serra.

Fra il 2001 e il 2008, correlatore di 24 tesi di laurea in Ingegneria Meccanica, 2 in Ingegneria Informatica, 2 in Ingegneria Biomedica. Nel triennio 2009-2011, relatore di altre 6 tesi e correlatore di altre 3. Nel successivo triennio 2012-2014, relatore di 11 tesi. Dal 2015 al giugno 2021, relatore o correlatore di 40 tesi fra lauree e lauree magistrali.

Dal 2013, nel collegio dei docenti del corso di dottorato in *Meccanica Energetica e Gestionale* di UNIGE, rinominato dal 2014 dottorato in *Ingegneria Meccanica Energetica e Gestionale IMEG*. Dal 2013 al 2018, responsabile del curriculum Meccanica Misura e Robotica. Dal 2018 al giugno 2021, responsabile del curriculum internazionale *Robotics and Mechatronics*, associato, con accordo di doppio titolo, a due dottorati attivi alla *Ecole Centrale de Nantes*. Relatore di 27 tesi di dottorato dal 2005.

3. DIDATTICA

Mechanical design methods in robotics	CLM Robotics engineering	dal 2012-13
Modellazione dei sistemi meccanici	CLM Ing. meccanica - progettazione produzione	dal 2014-15
Meccanica applicata alle macchine	CLM Ing. meccanica - mecatronica la Spezia	dal 2017-18
Meccanica applicata alle macchine	CL Ing. meccanica - energia produzione Savona	dal 2018-19
Fondamenti di progetto industriale I	CLM Scienza e ingegneria dei materiali	dal 2020-21
Meccanica applicata alle macchine	CL Ingegneria elettrica	dal 2015-16 al 18-19
Progettazione meccanica funzionale	CL Ingegneria meccanica	dal 2010-11 al 16-17
Flexible automation	CLM Ing. meccanica - progettazione produzione	dal 2010-11 al 15-16

Prima del 2012: Meccanica dei robot, Design of Micro Electro Mechanical Systems, Robotica industriale e di servizio 1, Robotica, Progettazione di micro e nano sistemi elettromeccanici, Mechanics of Mechanisms and Machines, Robot Programming Methods.

4. PUBBLICAZIONI

Articoli su rivista.

- [1] M. S. Ikbal, V. Ramadoss e M. Zoppi. «Dynamic Pose Tracking Performance Evaluation of HTC Vive Virtual Reality System». In: *IEEE ACCESS* 9 (2021), pp. 3798–3815. DOI: [10.1109/ACCESS.2020.3047698](https://doi.org/10.1109/ACCESS.2020.3047698).
- [2] K. Masood, M. Zoppi, V. Fremont e R. M. Molfino. «From drive-by-wire to autonomous vehicle: Urban freight vehicle perspectives». In: *SUSTAINABILITY* 13 (2021), pp. 1–21. DOI: [10.3390/su13031169](https://doi.org/10.3390/su13031169).

- [3] A. Sharma, M. S. Iqbal, D. T. Cuong e M. Zoppi. «A sliding mode-based approach to motion cueing for virtual reality gaming using motion simulators». In: *VIRTUAL REALITY* 25 (2021), pp. 95–106. DOI: [10.1007/s10055-020-00439-5](https://doi.org/10.1007/s10055-020-00439-5).
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- [5] S. Lyu, D. Zlatanov, M. Zoppi, X. Ding, G. S. Chirikjian e S. D. Guest. «Bundle folding type III Bricard linkages». In: *MECHANISM AND MACHINE THEORY* 144 (2020), pp. 103663–103668. DOI: [10.1016/j.mechmachtheory.2019.103663](https://doi.org/10.1016/j.mechmachtheory.2019.103663).
- [6] K. Masood, X. Dauptain, M. Zoppi e R. Molfino. «Hydraulic pressure-flow rate control of a pallet handling robot for an autonomous freight delivery vehicle». In: *ELECTRONICS* 9 (2020), pp. 1–19. DOI: [10.3390/electronics9091370](https://doi.org/10.3390/electronics9091370).
- [7] K. Masood, R. Molfino e M. Zoppi. «Simulated sensor based strategies for obstacle avoidance using velocity profiling for autonomous vehicle FURBOT». In: *ELECTRONICS* 9 (2020), pp. 883–896. DOI: [10.3390/electronics9060883](https://doi.org/10.3390/electronics9060883).
- [8] S. Veeramani, M. Sree Kumar, K. Sagar e M. Zoppi. «Artificial intelligence planners for multi-head path planning of SwarmItFIX agents». In: *JOURNAL OF INTELLIGENT MANUFACTURING* 31 (2020), pp. 815–832. DOI: [10.1007/s10845-019-01479-8](https://doi.org/10.1007/s10845-019-01479-8).
- [9] M. Jilich, M. Frascio, M. Avalle e M. Zoppi. «Development of a gripper for garment handling designed for additive manufacturing». In: *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART C, JOURNAL OF MECHANICAL ENGINEERING SCIENCE* 1 (2019), pp. 1–12. DOI: [10.1177/0954406219857763](https://doi.org/10.1177/0954406219857763).
- [10] S. Lu, D. Zlatanov, X. Ding, M. Zoppi e S. D. Guest. «A network of type III Bricard linkages». In: *JOURNAL OF MECHANISMS AND ROBOTICS* 11 (2019), pp. 011013–011020. DOI: [10.1115/1.4041641](https://doi.org/10.1115/1.4041641).
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- [12] A. Sharma, M. S. Iqbal e M. Zoppi. «Acausal Approach to Motion Cueing». In: *IEEE ROBOTICS AND AUTOMATION LETTERS* 4 (2019), pp. 1013–1020. DOI: [10.1109/LRA.2019.2893709](https://doi.org/10.1109/LRA.2019.2893709).
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- [14] A. M. Tahir, M. Jilich, D. C. Trinh, G. Cannata, F. Barberis e M. Zoppi. «Architecture and design of a robotic mastication simulator for interactive load testing of dental implants and the mandible». In: *JOURNAL OF PROSTHETIC DENTISTRY* 122 (2019), 389–389.e8. DOI: [10.1016/j.prosdent.2019.06.023](https://doi.org/10.1016/j.prosdent.2019.06.023).
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Conferenze e contributi in volume.

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