

**List of Publications**  
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### **Edited Books**

- [B-1] B. Siciliano, A. De Luca, C. Melchiorri, G. Casalino (Eds.), *Advances in Control of Articulated and Mobile Robots*, Springer Tracts in Advanced Robotics, vol. 10, Springer Verlag, Berlin, 2004.  
[DOI:10.1007/b10628](#)

### **Edited Proceedings**

- [P-1] A. Isidori, S. Bittanti, E. Mosca, A. De Luca, M.D. Di Benedetto, G. Oriolo (Eds.), *Proceedings of the 3rd European Control Conference (ECC 95)*, Roma, ITA, Sep 1995.

### **International Journals**

- [J-67] P. Pustina, C. Della Santina, F. Boyer, A. De Luca, F. Renda, "Input decoupling of Lagrangian systems via coordinate transformation: General characterization and its application to soft robotics," *IEEE Transactions on Robotics*, vol. 40, pp. 2098-2110, 2024 [online 27 Feb 2024].  
[DOI:10.1109/TRO.2024.3370089](#) ([open access](#))
- [J-66] X. Shao, P. Pustina, M. Stölzle, G. Sun, A. De Luca, L. Wu, C. Della Santina. "Model-based control for soft robots with system uncertainties and input saturation," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 7, pp. 7435-7444, 2024 [online 25 Aug 2023]. [DOI:10.1109/TIE.2023.3303636](#)
- [J-65] P. Pustina, P. Borja, C. Della Santina, A. De Luca, "P-satI-D shape regulation of soft robots," *IEEE Robotics and Automation Letters*, vol. 8, no. 1, pp. 1-8, 2023 [online 10 Nov 2022].  
[DOI:10.1109/LRA.2022.3221304](#) ([open access](#), with [multimedia\\*](#))

- [J-64] A. Cristofaro, A. De Luca, “Reduced-order observer design for robot manipulators,” *IEEE Control Systems Letters*, vol. 7, pp. 520–525, 2023 [online 4 Aug 2022]. DOI:10.1109/LCSYS.2022.3196432 (open access)
- [J-63] A. Kazemipour, M. Khatib, K. Al Khudir, C. Gaz, A. De Luca, “Kinematic control of redundant robots with online handling of variable generalized hard constraints,” *IEEE Robotics and Automation Letters*, vol. 7, no. 4, pp. 9279–9286, 2022 [online 14 Jul 2022]. DOI:10.1109/LRA.2022.3190832 (open access, with multimedia\* and code on github)
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- [J-60] A. Sciutti, F. Battaglia, M.R. Fossati, V. Calderai, M.G. Catalano, G. Antonelli, G.M. Di Nunzio, N. Dubbini, L. Giarré, E. Menegatti, F. Negrello, F. Pascucci, M. Pivetti, A.M. Zanchettin, A. Baroncelli, S. Majorana, C. Marchisio, B. Siciliano, P. Rocco, G. Metta, C. Melchiorri, C. Laschi, E. Guglielmelli, A. De Luca, P. Dario, A. Bicchi, “Making an opportunity out of a crisis: The inclusive approach of the Italian robotics community,” *IEEE Robotics and Automation Magazine*, vol. 28, no. 4, pp. 79–91, 2021 [online 16 Sep 2021]. DOI:10.1109/MRA.2021.3105639
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## Book Chapters

- [BC-18] L. Monorchio, M. Capotondi, M. Corsanici, W. Villa, A. De Luca, F. Puja, “Transfer and continual supervised learning for robotic grasping through grasping features,” in F. Cuzzolin, K. Cannons, V. Lomonaco (Eds.) *Continual Semi-Supervised Learning*, Lecture Notes in Computer Science (LNAI), vol. 13418, pp. 33–47, Springer International Publishing, Cham, 2022 (Proc. 1st International Workshop on Continual Semi-Supervised Learning, Montreal, CAN, Aug 2021) [online 28 Sep 2022]. DOI:10.1007/978-3-031-17587-9\_3
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- [BC-16] A. Spada, M. Cognetti, A. De Luca, “Locomotion and Telepresence in Virtual and Real Worlds,” in F. Ficuciello, F. Ruggiero, A. Finzi (Eds.) *Human-Friendly Robotics*, Springer Proceedings in Advanced Robotics, vol. 7, pp. 85–98, Springer Verlag, Berlin, 2019 (Proc. 10th International Workshop on Human-Friendly Robotics, Napoli, ITA, Nov 2017) [online 2 Jun 2018]. [DOI:10.1007/978-3-319-89327-3\\_7](https://doi.org/10.1007/978-3-319-89327-3_7)
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