

## Cooking

## Publications

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- [C1] I. Sorrentino, F. J. Andrade Chavez, C. Latella, L. Fiorio, S. Traversaro, L. Rapetti, **Y. Tirupachuri**, N. Guedelha, M. Maggiali, S. Dussoni, G. Metta, and D. Pucci. “A Novel Sensorised Insole for Sensing Feet Pressure Distributions”. In: *Sensors* 20.3 (2020). ISSN: 1424-8220. DOI: 10.3390/s20030747. URL: <https://www.mdpi.com/1424-8220/20/3/747>.
- [C2] C. Latella, S. Traversaro, D. Ferigo, **Y. Tirupachuri**, L. Rapetti, F. J. Andrade Chavez, F. Nori, and D. Pucci. “Simultaneous Floating-Base Estimation of Human Kinematics and Joint Torques”. In: *Sensors* 19.12 (2019). ISSN: 1424-8220. DOI: 10.3390/s19122794. URL: <https://www.mdpi.com/1424-8220/19/12/2794>.
- [C3] **Y. Tirupachuri**, G. Nava, C. Latella, D. Ferigo, L. Rapetti, L. Tagliapietra, F. Nori, and D. Pucci. “Towards Partner-Aware Humanoid Robot Control Under Physical Interactions”. In: *Proceedings of SAI Intelligent Systems Conference*. Springer. 2019, pp. 1073–1092.
- [C4] **Y. Tirupachuri**, G. Nava, L. Rapetti, C. Latella, and D. Pucci. “Trajectory Advancement during Human-Robot Collaboration”. In: *2019 28th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*. IEEE. 2019, pp. 1–8. DOI: 10.1109/RO-MAN46459.2019.8956339.
- [C5] **Y. Tirupachuri**, S. Traversaro, F. Nori, and D. Pucci. “Momentum-Based Topology Estimation of Articulated Objects”. In: *Proceedings of SAI Intelligent Systems Conference*. Springer. 2019, pp. 1093–1105.
- [C6] **Y. Tirupachuri\***, K. Darvish\*, G. Romualdi, L. Rapetti, D. Ferigo, F. J. Andrade Chavez, and D. Pucci. “Whole-Body Geometric Retargeting for Humanoid Robots”. In: *Humanoids*. IEEE. 2019, in press.
- [C7] V. Vasco, A. Glover, **Y. Tirupachuri**, F. Solari, M. Chessa, and C. Bartolozzi. “Vergence control with a neuromorphic iCub”. In: *2016 IEEE-RAS 16th International Conference on Humanoid Robots (Humanoids)*. 2016, pp. 732–738. DOI: 10.1109/HUMANOIDS.2016.7803355.

## Under Review

- [U1] L. Rapetti, **Y. Tirupachuri**, K. Darvish, C. Latella, and D. Pucci. “Model-Based Real-Time Motion Tracking using Dynamical Inverse Kinematics”. In: (2020). arXiv: 1909.07669.

## Workshops

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- [W1] L. Rapetti, **Y. Tirupachuri**, A. Ranavolo, C. Latella, and D. Pucci. “Multi-Humanoid-Robot system: balancing and effort distribution during collaboration”. In: (2020), Foundational Problems in Multi-Robot Coordination Under Uncertainty and Adversarial Attacks, International Conference on Robotics and Automation (ICRA) 2020, Paris, France. arXiv: 2001.00411 [cs.R0]. URL: <https://drive.google.com/file/d/1bAerev1fong0ZU-JL93wZowrGgx0Pfve/view>.
- [W2] **Y. Tirupachuri**, G. Nava, L. Rapetti, C. Latella, K. Darvish, and D. Pucci. “Recent Advances in Human-Robot Collaboration Towards Joint Action”. In: (2020), The Communication Challenges in Joint Action for Human-Robot Interaction Workshop, International Conference on Social Robotics (ICSR) 2019, Madrid, Spain. arXiv: 2001.00411 [cs.R0].
- [W3] C. Latella, **Y. Tirupachuri**, L. Rapetti, D. Ferigo, S. Traversaro, I. Sorrentino, F. J. Andrade Chavez, F. Nori, and D. Pucci. “A Human Wearable Framework for Physical Human-Robot Interaction”. In: (2019), I-RIM, Rome, Italy. URL: <https://bit.ly/35iy9k7>.
- [W4] **Y. Tirupachuri**, G. Nava, L. Rapetti, C. Latella, and D. Pucci. “Trajectory Advancement for Robot Stand-up with Human Assistance”. In: (2019), I-RIM, Rome, Italy. arXiv: 1910.06786 [cs.R0].
- [W5] C. Latella, L. Tagliapietra, D. Ferigo, **Y. Tirupachuri**, F. Nori, and D. Pucci. “Advancing Human-Robot Collaboration through Online Human Inverse Dynamics Estimation”. In: *2018 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO)*. 2018, pp. 21–22. DOI: 10.1109/ARSO.2018.8625806.
- [W6] **Y. Tirupachuri**, P. Ramadoss, B. Bruno, and F. Mastrogiovanni. “Human-Robot Cooperation: is Wearable Sensing the Way to Go?” In: (2015), Robot and Human Interactive Communication (RO-MAN), 2015 IEEE 24th IEEE International Symposium on. eprint: <https://bit.ly/2Qmgi7W>.