

Di Castro, Mario, Manuel Ferre, and Alessandro Masi. "CERNTAURO: A Modular Architecture for Robotic Inspection and Telemanipulation in Harsh and Semi-Structured Environments." *IEEE Access* 6 (2018): 37506-37522.

G. Lunghi, R. M. Prades and M. Di Castro, "An Advanced, Adaptive and Multimodal Graphical User Interface for Human-robot Teleoperation in Radioactive Scenarios," in Proceedings of the 13th International Conference on Informatics in Control, Automation and Robotics, SCITEPRESS-Science and Technology Publications, Lda, 2016.

M. Di Castro e. al., i-TIM: A Robotic System for Safety, Measurements, Inspection and Maintenance in Harsh Environments, presented at SSRR18.

M. Di Castro et al. "A Dual Arms Robotic Platform Control for Navigation, Inspection and Telemanipulation," ICALEPCS2017, 2018.

M. Di Castro et al, "An incremental slam algorithm for indoor autonomous navigation", presented at IMEKO 2014.

L. Attard, C. J. Debono, G. Valentino and M. Di Castro, Image mosaicing of tunnel wall images using high level features, Proceedings of the 10th International Symposium on Image and Signal Processing and Analysis, Ljubljana, 2017, pp. 141-146. doi: <https://doi.org/doi:10.1109/ISPA.2017.8073585>

Leanne Attard, Carl James Debono, Gianluca Valentino, Mario Di Castro, Vision-based change detection for inspection of tunnel liners, *Automation in Construction*, Volume 91, 2018, pp. 142-154.

M. di castro et. Al, Object Detection and 6D Pose Estimation for Precise Robotic Manipulation in Unstructured Environments, Lecture Notes in Electrical Engineering, Springer, Volume 495, Chapter 20

Lunghi, G., Marin, R., Di Castro, M., Masi, A., & Sanz, P. J. (2019). Multimodal Human-Robot Interface for Accessible Remote Robotic Interventions in Hazardous Environments. *IEEE Access*, 7, 127290-127319.

Veiga Almagro, C., Di Castro, M., Lunghi, G., Marín Prades, R., Sanz Valero, P. J., Pérez, M. F., & Masi, A. (2019). Monocular Robust Depth Estimation Vision System for Robotic Tasks Interventions in Metallic Targets. *Sensors*, 19(14), 3220.

Saliba, C., Bugeja, M. K., Fabri, S. G., Di Castro, M., Mosca, A., & Ferre, M. (2018). A Training Simulator for Teleoperated Robots Deployed at CERN. In ICINCO (2) (pp. 293-300).