

Stanford



Mine Sarac Stroppa

Postdoctoral Research Fellow, Mechanical Engineering

Bio

PROFESSIONAL EDUCATION

- BS, Yeditepe University , Electrical and Electronics Engineering (2011)
- MS, Sabanci University , Mechatronics (2013)
- Doctor of Philosophy, Higher Schl Univ & Adv Stu Sant' Anna (2017)

PATENTS

- Mine Sarac Stroppa, Massimiliano Solazzi, Massimiliano Gabardi, Eduardo Sotgiu, Massimo Bergamasco, and Antonio Frisoli. "Italy Patent WO2017145136-A1 Exoskeleton device for the hand", Scuola Superiore Sant'Anna

Research & Scholarship

RESEARCH INTERESTS

- Technology and Education

Publications

PUBLICATIONS

- **Design Requirements of Generic Hand Exoskeletons and Survey of Hand Exoskeletons for Rehabilitation, Assistive, or Haptic Use** *IEEE TRANSACTIONS ON HAPTICS*
Sarac, M., Solazzi, M., Frisoli, A.
2019; 12 (4): 400–413
- **Proxy-Based Haptic Rendering for Underactuated Haptic Devices**
Lobo, D., Sarac, M., Verschoor, M., Solazzi, M., Frisoli, A., Otaduy, M. A., Gerling, G., Otaduy, M. A., Ryu, J. H.
IEEE.2017: 48–53
- **Design and Comparative Evaluation of a BCI-based Upper Extremity Robotic Rehabilitation Protocol**
Koyas, E., Sarac, M., Cetin, M., Patoglu, V., Yu, H. Y., Braun, D., Campolo, D.
IEEE.2015: 979–84
- **ASSISTON-MOBILE: a series elastic holonomic mobile platform for upper extremity rehabilitation** *ROBOTICA*
Sarac, M., Ergin, M., Erdogan, A., Patoglu, V.
2014; 32 (8): 1433–59
- **Design and kinematic optimization of a novel underactuated robotic hand exoskeleton** *MECCANICA*
Sarac, M., Solazzi, M., Sotgiu, E., Bergamasco, M., Frisoli, A.
2017; 52 (3): 749–61
- **Design of an Underactuated Hand Exoskeleton with Joint Estimation**

Sarac, M., Solazzi, M., Leonardis, D., Sotgiu, E., Bergamasco, M., Frisoli, A., Boschetti, G., Gasparetto, A.

SPRINGER INTERNATIONAL PUBLISHING AG.2017: 97–105

- **A Novel Approach for Upper Limb Robotic Rehabilitation for Stroke Patients**

Barsotti, M., Sotgiu, E., Leonardis, D., Sarac, M., Sgherri, G., Lamola, G., Chiara, F., Procopio, C., Chisari, C., Frisoli, A., Bello, F., Kajimoto, H., Visell, et al

SPRINGER INT PUBLISHING AG.2016: 459–69

- **ASSISTON-MOBILE: A Series Elastic Holonomic Mobile Platform for Upper Extremity Rehabilitation**

Sarac, M., Ergin, M., Patoglu, V., Colgate, J. E.

IEEE.2013: 283–88

- **Brain Computer Interface based Robotic Rehabilitation with Online Modification of Task Speed**

Sarac, M., Koyas, E., Erdogan, A., Cetin, M., Patoglu, V., IEEE

IEEE.2013

- **Brain Computer Interface based robotic rehabilitation with online modification of task speed. *IEEE ... International Conference on Rehabilitation Robotics : [proceedings]***

Sarac, M., Koyas, E., Erdogan, A., Cetin, M., Patoglu, V.

2013; 2013: 6650423