



Fatemeh Hemmati,

PhD of Orthoses and prostheses

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academic profiles:

<https://scholar.google.com/citations?hl=fa&user=uGpO3doAAAAJ>

<https://www.webofscience.com/wos/author/record/AAZ-4358-2021>

<http://www.scopus.com/authid/detail.url?authorId=57203399663>

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Research interest

Aging

Gait

Stability analysis

Foot and ankle

Education

2015-2021

Doctor of Philosophy, Orthosis and prosthesis

University of Social Welfare and Rehabilitation Sciences, Tehran, Iran

Thesis: the effects of toe-only rocker sole shoes with different rocker angle on dynamic stability and lower extremity joint contact forces during walking in elderly

Supervisor: Dr. Mohammad Taghi Karimi, Dr. Mohammad Ali Mardani

2010-2013

Master of Science, Orthosis and prosthesis

Isfahan University of Medical Sciences, Isfahan, Iran

Thesis: the effect of pronated foot posture and medial heel and sole wedge on static balance and temporal spatial parameters of gait during gait in elderly

Supervisor: Dr. Saeed Forghany

2006-2010

Bachelor of Science, Orthosis and prosthesis

Isfahan University of Medical Sciences, Isfahan, Iran

Teaching experiences

Kinesiology of lower limb extremity

Manual muscle testing

Lower limb orthoses

Lower limb prostheses

Upper limb prostheses

Spinal orthoses

Publications

- ۱- Tafti N, **Hemmati F**, Safari R, Karimi MT, Farmani F, Khalaf A, Mardani MA. A systematic review of variables used to assess clinically acceptable alignment of unilateral transtibial amputees in the literature. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine. 2018 Aug;232(8):826-40.
- ۲- Tafti N, Turk SB, **Hemmati F**, Norouzi E, Sharifmoradi K, Karimi MT, Kashani RV. Effect of wearing insole with different density on standing and walking plantar pressure distribution. Journal of Mechanics in Medicine and Biology. 2019 May 19;19(03):1950006.
- ۳- Karimi MT, **Hemmati F**, Mardani MA, Sharifmoradi K, Hosseini SI, Fadayevatan R, Esrafilian A. Determination of the correlation between muscle forces obtained from

OpenSim and muscle activities obtained from electromyography in the elderly. *Physical and Engineering Sciences in Medicine*. 2021 Mar;44(1):243-51.

- ξ- **Hemmati F**, Haghpanah SA, Karimi MT, Mardani MA, Fadayevatan R. Nonlinear analysis of dynamic stability in walking with toe-only rocker sole shoes in elderly. *Medical Engineering & Physics*. 2022 Jan 1;99:103738.
- ο- Karimi, Mohammad Taghi; **Hemati, Fatemeh** Knee joint osteoarthritis in obese subjects, effects of diet and exercise on knee joint loading: a review of literature, *Current Orthopaedic Practice*: May 24, 2022 – Doi: 10.1097/BCO.0000000000001133
- ϒ- **Hemmati, F.**, & Karimi, M. T. (2022). The effect of rocker sole shoes on ground reaction force in the elderly. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 236(7), 988-993.
- ϒ- **Hemmati, F.**, Tafti, N., Nourouzi, E., Turk, S. B., Karimi, M. T., Sharifmoradi, K., & Kashani, R. V. (2023). Custom-Made Ethyl Vinyl Acetate Insoles with Arch Support Could Improve Static Balance in Diabetic Women with Neuropathic Foot. *Journal of the American Podiatric Medical Association*, 113(3).
- λ- **Hemmati, F.**, Karimi, M. T., Hosseini, S. I., Mardani, M. A., & Fadayevatan, R. (2022). The effect of toe-only rocker sole shoes on gait variability of the elderly. *Medical & Biological Engineering & Computing*, 60(9), 2493-2498.
- ϑ- Nadernejad, S., **HEMMATI, F.**, & Forghany, S. (2019). The Effects of Modified Ankle Foot Orthosis on balance in Healthy Older People. *JOURNAL OF ILAM UNIVERSITY OF MEDICAL SCIENCES*, 27(3), 81-90. SID. <https://sid.ir/paper/398034/en>
- ϑ- **Hemmati, fatemmeh**, & Forghany, Saeed. (2014). The effects of pronated foot posture and medial heel and sole wedge orthoses on static balance in older people. *Journal of research in rehabilitation sciences*, 9(6), 939-949. Sid. <https://sid.ir/paper/144121/en>