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I received a BS and MS from University of Tehran and Sharif University, Iran and a PhD in Physics from University of Colorado Boulder. My research interest is in nonlinear dynamics and chaos, biological modeling, and artificial intelligence.

### **Selected Publications**

- Buscema PM, Massini G, Breda M, Lodwick WA, Newman F, Asadi-Zeydabadi M. *Artificial Adaptive Systems Using Auto Contractive Maps - Theory, Applications and Extensions*. Springer International Publishing AG, 2018,
- Alberto C. Sadun , Masoud Asadi-Zeydabadi, Brian Mills and Joseph Ward Moody, "Statistical Analysis of the Microvariable AGN Source Mrk 501", *Galaxies* 2018, 6(1), 20
- Massimo Buscema, Masoud Asadi-Zeydabadi, Weldon Lodwick and Marco Breda, "The H0 function, a new index for detecting structural/topological complexity information in undirected graphs", *Physica A*, Vol 447, 2016
- Masoud Asadi-Zeydabadi and Clyde Zaidins, "The Path of the Shortest Time", *Applied Physics Research*, Vol 8, No 4, 2016
- Jeffrey L. Olson, Masoud Asadi-Zeydabadi and Randall Tagg, "Thyroidal estimation of retinal oxygenation in chronic diabetic retinopathy", *Computer in Biology and Medicine*, 2015
- Masoud Asadi-Zeydabadi, "Bessel function and damped simple harmonic motion", *Journal of Applied Mathematics and Physics*, 2014
- Masoud Asadi-Zeydabadi and Alberto Sadun "One-dimensional relativistic dynamics with scaling formalism", *European Journal of Physics*, 2013,
- Francis Newman, Masoud Asadi-Zeydabadi, Vikram D. Durairaj, Meisong Ding, Kelly Stuhr and Brian Kavanagh , "Visual Sensations during Radiotherapy to the Orbit: Demonstration of Cherenkov Radiation as Proximate Cause" , *Medical Physics*, 2008 Jan, 35 (1)

- Randall. Tagg, Masoud Asadi-Zeydabadi and Arlen D. Meyers. "Physical methods of cancer detection", in Bioengineering in Otolaryngology, ed. by Arlen D. Meyeres, North Otolaryngologic Clinics of North America, vol. 38, no. 3 (Elsevier, New York, June 2005)
- Randall Tagg and Masoud Asadi-Zeydabadi, "Ray Chaos in Quadratic Index Media, A Non-Mechanical Application of Mechanics," Proceeding of 5<sup>th</sup> Experimental Chaos Conference, June 28-July 1, 1999