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Education

- Ph.D.** **University of Tehran**
Mechanical Engineering, Dynamic systems and Control.
2015-present.
- M.Sc.** **K.N. Toosi University of Technology**
Mechanical Engineering, Vehicle Dynamic Systems. 2014.
- B.Sc.** **Shahid Rajaei University**
Automotive Engineering. 2011.

Expertise

- Tire Dynamics
- Tire Modeling
- Vehicle Systems Dynamics and Control
- Brake System Design and Control
- Transmissions: Modeling, Optimization, Simulations, and Control.

Professional Experience:

- Senior Research Scientist** **Vehicle, Fuel and Environment Research Institute
(VFERI), University of Tehran**
2015-present.

Lecturer	Sharif University of Technology 2012–2015 Sapco University of Applied Science and Technology 2012–present.
Research Scientist	K.N. Toosi University of Technology Transmission Design for National Vehicle Platform 2013–2014.
Senior Research Scientist	Sharif University of Technology Design of Anti-lock Braking System Control Unit. 2013–2014.
Manager of Teaching Quality	ISAcO (an Iran Khodro co. Subset) and Sharif University of Technology Joint Program 2012–2013.

Publications:

➤ Books

- Nasiri S, **Sina N.** Rezaei J., Vehicle Electronics and Advanced Technology, MehadSanatShargh, 2012. (in Persian)

➤ Journal Papers

- **Sina N.**, Nasiri S., Karkhaneh V., "Effects of Resistive Loads and Tire Inflation Pressure on Tire Power Losses and CO₂ Emissions in Real-world Conditions", *Applied Energy*, 2015. <http://dx.doi.org/10.1016/j.apenergy.2015.04.010>.
- Nasiri S., **Sina N.**, Eslami A., "Multi-objective Optimisation of McPherson Strut Suspension Mechanism Kinematics Using Random Search Method", *Indian Journal of Science and Technology*, 2015. <http://dx.doi.org/10.17485/ijst/2015/v8i16/62548>.
- Azadi S., **Sina N.**, "Sensitivity Analysis of Vehicle Directional Stability and Dynamic Response Simulation in case of Tire and Road Friction Changing", *Iran Rubber Magazine*, 2015. (in Persian)
- Nasiri S., **Sina N.**, Khanaki A., Farkhonde H., "Influence of Tire Inflation Pressure on Vehicle Steerability", *Iran Rubber Magazine*, 2014. (in Persian)

- Nasiri S., **Sina N.**, Karkhaneh V., “Influence of Tire Inflation Pressure on Vehicle Fuel Consumption”, *Iran Rubber Magazine*, 2013. (in Persian)
- Nasiri S., **Sina N.**, Rezaei J., “Analytical Modeling and Simulation of Tire Non-uniformities”, *Iran Rubber Magazine*, 2012. (in Persian)

➤ **Conference Papers (selected)**

- **Sina N.**, Hairi Yazdi M.R., Esfahanian V., “A New Approach to Study Tire Resistive Forces”, 25th ISME Conference, 2017.
- **Sina N.**, Azadi S., “Online Estimation of Tire Cornering Stiffness Using RLS”, 23rd ISME conference, 2015.
- **Sina N.**, Nasiri S., Khanaki A., “Effect of Tire cornering Stiffness Changing in Rainy Conditions on Vehicle Steerability and Stability”, 23rd ISME conference, 2015.
- Rashidinezhad F., Payeganeh G., Nasiri S., **Sina N.**, “Modeling and Simulation of Vehicle Electric Steering and Torque Map”, 23rd ISME conference, 2015.
- **Sina N.**, Nasiri S., “Excitation Behavior of Tire and Wheel Assembly Faults in Shape of Non-uniformity in a Vehicle”, 8th CMFD conference, 2014.
- **Sina N.**, Nasiri S., Jafari H., Rashidinezhad F., “Design of Vehicle Active Steering Controller using SFC”, 22nd ISME conference, 2014.
- **Sina N.**, Nasiri S., Karkhaneh V., “Influence of Tire Inflation Pressure on Vehicle Longitudinal Dynamics” 21st ISME conference, 2013.