



Fig. 7. Tire and terrain deformed due to tire passage. The rig mechanism bodies are not rendered in this image.

Professor Hiroyuki Sugiyama

From: Antonio Recuero, Radu Serban, Bryan Peterson, Hiroyuki Sugiyama, Paramsothy Jayakumar and Dan Negrut, “A high-fidelity approach for vehicle mobility simulation: Nonlinear finite element tires operating on granular material”, *Journal of Terramechanics*, Vol. 72, pp 39-54, 2017

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Selected Publications:

Sugiyama, H., Escalona, J.L., Shabana, A.A.: Formulation of three-dimensional joint constraints using the absolute nodal coordinates. *Nonlinear Dyn.* 31(2), 167–195 (2003)
Sugiyama, H., and Shabana, A. A. On the use of implicit integration methods and the absolute nodal coordinate formulation in the analysis of elasto-plastic deformation problems. *Nonlinear Dynamics* 37 (2004), 245–270
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Hiroki Yamashita, Antti Valkeapaa, Paramsothy Jayakumar and Hiroiyuki Sugiyama, "Bi-linear shear deformable ANCF shell element using continuum mechanics approach", Conference Paper, August 2014, DOI: 10.1115/DETC2014-35349

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Yamashita, H., Valkeapää, A., Jayakumar, P., Sugiyama, H.: Continuum mechanics based bi-linear shear deformable shell element using absolute nodal coordinate formulation. *J. Comput. Nonlinear Dyn.* Vol. 10, September 2015

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