



EDITORIAL

Jörg Schröder

Introduction from the New Editor-in-Chief

Published online: 10 July 2019
© Springer-Verlag GmbH Germany, part of Springer Nature 2019

Welcome to the seventh issue of the 89th volume of the *Archive of Applied Mechanics* (formerly known as “Ingenieur-Archiv”) coming up with 90 years of research tradition in the field of mechanics. Thus, I feel immensely honored to be entrusted with the responsibility of receiving the baton of Editor-in-Chief from Professor Reinhold Kienzler along with this issue. Furthermore, I would like to introduce Dr.-Ing. Dominik Brands as the new managing editor, who undertakes this position from Professor Frank Jablonski. I would like to express my gratitude for all the hard work undertaken by both of them as well as the previous Editorial Board and reviewers. Their work results in an ongoing high reputation of the *Archive of Applied Mechanics* through the years reflected by the increasing long-term Journal Impact Factor up to 1.578 in 2018.

Professor Reinhold Kienzler and his team have provided us a sound foundation on which it is now our responsibility to further build and maintain a high-quality and influential scientific journal in all branches of theoretical and applied mechanics. Part of this development will raise the profile of the *Archive of Applied Mechanics* focusing on continuum mechanics in general, structural mechanics, biomechanics, micro- and nanomechanics as well as hydrodynamics. In particular, the following topics are emphasized: thermodynamics of materials, material modeling, multi-physics, mechanical properties of materials, homogenization, phase transitions, fracture and damage mechanics, vibration, wave propagation, experimental mechanics as well as machine learning techniques in the context of applied mechanics. Thereby, new analytical, numerical and experimental methods suited to research in the above-mentioned subjects as well as contributions reviewing the development in these fields are welcome.

The new Editorial Board looks forward to serving and bringing into conversation all branches of theoretical and applied mechanics.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.