



Technische
Universität
Braunschweig



GRK 2075

Vortrag im Gästeprogramm des GRK 2075

Prof. Dr. Pierre Feissel

Professor at Université de technologie de Compiègne,
Laboratoire de Roberval, Frankreich

A Random Set Based Identification Strategy

Montag, 04.02.2019, 10.30 Uhr
Institut für Wissenschaftliches Rechnen
Mühlenpfordtstrasse 23, 8. OG, Raum 812

In this work, we investigate the possibility to use alternatives to probabilities to describe information and its uncertainties in the framework of inverse problems and identification. We therefore used the theory of random set and belief functions to be applied in the case of the identification of elastic parameters from DIC data. We proposed an inference scheme allowing to merge prior information on the parameters and the information coming from the experiment. The method allows to describe sets of arbitrary shape in an efficient manner and is applied to numerical examples.

Kontakt

Graduiertenkolleg 2075
Technische Universität Braunschweig
Beethovenstraße 51
38106 Braunschweig
0531 - 391-3668
grk-2075@tu-bs.de
www.tu-braunschweig.de/grk-2075