

## Humboldt Research Award Winner to stay at KIT

Dr. Haruyuki Inui, professor of materials science and engineering from Kyoto University (Japan), has been granted the Humboldt Research Award in November 2021. This renowned award, endowed with 60,000 euros, is presented annually by the Alexander von Humboldt Foundation to internationally recognized scientists from abroad to support collaborative projects with researchers in Germany.



Prof. Inui is an expert on intermetallic phases which play a significant role in the development of new types of structural materials for extreme environmental conditions, e.g. in the field of combustion processes. For decades, the fundamental research work at Kyoto has been trend-setting for worldwide research in this field, which eventually enabled the commercial use of TiAl-based materials in aircraft engines.

The main topic of his research is the experimental investigation of the deformation of metallic and intermetallic materials from the nano- up to the macro-scale. In doing so, he spans the range from complex iron- and cobalt-based superalloys to novel intermetallic phases and so-called high entropy alloys – in the materials science and engineering community currently a hot topic to which the award winner has also contributed substantially.

Prof. Inui plans to spend his stay associated with the Humboldt Research Award in Germany beginning in 2022, as a guest of KIT where he will collaborate with Prof. Martin Heilmaier (Institute for Applied Materials – Materials Science and Engineering) and in close cooperation with partners at the Max-Planck-Institut für Eisenforschung Düsseldorf (Prof. Dierk Raabe), the Ruhr-University Bochum (Prof. Gunther Eggeler) and the University of Bayreuth (Prof. Uwe Glatzel).