



**Luca Susmel** joined the University of Sheffield in 2011 as Professor of Structural Integrity. Since 1998 Luca has focused his attention mainly on problems related to the static, dynamic and fatigue assessment of engineering materials and components. Luca has an outstanding and unique expertise in designing notched, welded and 3D-printed materials/components against constant and variable amplitude multiaxial fatigue.

The work done in the above research areas has led to more than 350 scientific papers in the period 1999-2023 (of which more than 150 articles in international peer-reviewed scientific journals) as well as to a book devoted to the multiaxial fatigue assessment (ISBN: 1 84569 582 8). His scientific papers have attracted significant interest from the international scientific community, as it is evidenced by his h-index as well as by the total number of citations (<https://scholar.google.co.uk/citations?hl=en&user=QtApaGEAAAAJ>).

Based on that, the Clarivate Analytics/Elsevier/University of Stanford research area comparison ranking of worldwide scientists and engineers (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>) indicates that Luca is in the top 2%. He is a member of the Editorial Boards of a number of leading international journals in the fatigue and fracture field, namely *International Journal of Fatigue*, *Fatigue & Fracture of Engineering Materials & Structures*, *Material Design & Processing Communications*, *Engineering (Eng)*, *Forces in Mechanics*, *International Journal of Structural Integrity*, *Journal of Material Science and Technology Research*, *Open Mechanical Engineering Journal* (the journal was discontinued in 2020), and *Structural Integrity*. Luca is the Editor-in-Chief of Elsevier's *Theoretical and Applied Fracture Mechanics* which is one of the top journals in the fracture mechanics field (Impact Factor=5.3).

Luca has developed a software specifically designed to perform the fatigue assessment of plain/notched/welded metal components subjected to both constant and variable amplitude uniaxial/multiaxial fatigue loading (Copyright document N. 007849-D007048). As to the transfer of his research's outcomes into engineering practice, over the years Luca's expertise has been sought on many occasions by several European and non-European companies successfully using the approaches developed by Luca himself to design real components and structures.

Since the end of the 90s, Luca has been involved both as primary investigator and as co-investigator in a very large number of research projects funded by national public funding bodies, European Community, Trusts, and private companies.