1. Record Nr. UNINA9910855385803321

Autore	Da Silva Lucas F M
Titolo	3rd International Conference on Advanced Joining Processes 2023 : Selected Contributions of AJP 2023 / / edited by Lucas F. M. da Silva, Paulo Martins, Uwe Reisgen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031547324
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (136 pages)
Collana	Proceedings in Engineering Mechanics, Research, Technology and Education, , 2731-023X
Disciplina	624.177
Soggetti	Mechanical engineering Surfaces (Technology) Thin films Manufactures Mechanical Engineering Surfaces, Interfaces and Thin Film Machines, Tools, Processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Evaluation of the load-bearing behaviour of bolts and lockbolt systems under combined tension and shear loading (A Holch) -- Chapter 2. Influence of the test velocity on the friction coefficient in high-strength bolted connections under cyclic load (J Mantik) -- Chapter 3. Self-Piercing Riveting (SPR) of magnesium high pressure die castings (Yousef Tabatabaei) -- Chapter 4. Volumetric Defect Detection in Friction Stir Welding through Convolutional Neural Networks Generalized across Multiple Aluminum-alloys and Sheet Thicknesses (Pascal Rabe) -- Chapter 5. Increasing the robustness of laser beam submerged arc hybrid welding in the presence of joint gaps and offsets (Michael Clemens) -- Chapter 6. On mesoscale numerical modelling of Fused Deposition Modelling of wood fibre-reinforced PLA biocomposite (Alexandra Morvayová) -- Chapter 7. Optimization of Ti-GFRP laser joining process to achieve superior mechanical performance for the overlap configuration (Mahdi Amne Elahi) -- Chapter 8. On the

	influence of process control on temperature uniformity and bondline characteristics in electrical resistance welding of carbonfiber-reinforced polyphenylene sulfide (M. Endrass) -- Chapter 9. Comparison of the mechanical properties of Ni 99.2 thin sheets welded by different arc and laser welding processes (M. Olesch).
Sommario/riassunto	This book provides selected contributions of the 3rd International Conference on Advanced Joining Processes, held in Braga, Portugal, on October 19–20, 2023. The volume is dedicated to the current developments in mechanical joining (1st Section), joining by plastic deformation (2nd Section), and welding (3rd Section). The selected contributions represent the state of the art in advanced methods of joining. The book serves as a reference volume for researchers and graduate students working with advanced joining processes.