

# Wohlers Report 2014

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*Adrian Olaru University of California, Davis. School of Law European Space Agency*

this book introduces readers to additive technology and its application in different business sectors it explores the fundamental impact additive has on technology particularly on operations innovation supply chains the environment and customer relations subsequently on the basis of a broad survey of the best technology adopters it offers advice on how to enhance business value by implementing the technology in different industrial and commercial environments additive manufacturing am is a new area of manufacturing that has already brought about phenomenal changes to industry and business models it affects nearly all aspects of the managerial and organizational thinking that was applied to conventional manufacturing currently the technology is being adopted in manufacturing areas that involve high value products with complex geometries and small to medium production volumes it boosts the productivity of new product development processes by slashing costs reducing time and promoting creativity and innovativeness further it shrinks supply chains by bringing firms closer to their customers this unique book offers abundant empirical and practical evidence confirming the value of this new technology

this innovative book explores the world of 3d printing from the perspective of intellectual property law tackling theory and practice as 3d printing digitises tangibles and equips individual users with access to design and manufacturing tools it also raises several pressing legal and policy issues does the ip framework largely designed in the analogue age adequately regulate the operation of the technology how should the law respond to piracy in a digital environment where copying is the norm not the exception what are the community s experiences and views regarding ip is the law actually a concern to fully address these questions the book begins with a contextual overview of 3d printing s history and broader socio economic impact it explains why the desktop side of the technology is likely to be especially problematic when it comes to ip law and highlights key areas of concern drawing on its rich empirical data featuring world leading experts engineers lawyers and users it offers illuminating insights into the experiences and perspectives of stakeholders before finally considering potential regulatory responses original and forward looking this book is essential reading for academics practitioners 3d printing users and any reader interested in the rapidly evolving field of law and technology

3d printing or more correctly additive manufacturing is the general term for those software driven technologies that create physical objects by successive layering of materials due to recent advances in the quality of objects produced and to lower processing costs the increasing dispersion and availability of these technologies

have major implications not only for manufacturers and distributors but also for users and consumers raising unprecedented challenges for intellectual property protection and enforcement this is the first and only book to discuss 3d printing technology from a multidisciplinary perspective that encompasses law economics engineering technology and policy originating in a collaborative study spearheaded by the hanken school of economics the aalto university and the university of helsinki in finland and engaging an international consortium of legal design and production engineering experts with substantial contributions from industrial partners the book fully exposes and examines the fundamental questions related to the nexus of intellectual property law emerging technologies 3d printing business innovation and policy issues twenty five legal technical and business experts contribute sixteen peer reviewed chapters each focusing on a specific area that collectively evaluate the tensions created by 3d printing technology in the context of the global economy the topics covered include current and future business models for 3d printing applications intellectual property rights in 3d printing essential patents and technical standards in additive manufacturing patent and bioprinting private use and 3d printing copyright licences on the user generated content ugc in 3d printing copyright implications of 3d scanning and non traditional trademark infringement in the 3d printing context specific industrial applications including aeronautics automotive industries construction equipment toy and jewellery making medical devices tissue engineering and regenerative medicine are all touched upon in the course of analyses in a legal context the central focus is on the technology s implications for us and european intellectual property law anchored in a comparison of relevant laws and cases in several legal systems this work is a matchless resource for patent copyright and trademark attorneys and other corporate counsel innovation economists industrial designers and engineers and academics and policymakers concerned with this complex topic

combining different perspectives from materials science engineering and computer science this reference provides a unified view of the various aspects necessary for the successful realization of intelligent systems the editors and authors are from academia and research institutions with close ties to industry and are thus able to offer first hand information here they adopt a unique three tiered approach such that readers can gain basic intermediate and advanced topical knowledge the technology section of the book is divided into chapters covering the basics of sensor integration in materials the challenges associated with this approach data processing evaluation and validation as well as methods for achieving an autonomous energy supply the applications part then goes on to showcase typical scenarios where material integrated intelligent systems are already in use such as for structural health monitoring and smart textiles

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3d printing in radiation oncology personalization of patient treatment through digital fabrication presents a comprehensive and practical view of the many forms in which 3d printing is being integrated into radiation oncology practice radiation oncology employs among the most sophisticated digital technologies in medicine until recently however the last mile of treatment has required manually produced or generic devices for patient set up positioning control of surface dose and delivery of brachytherapy treatment 3d printing is already offering enhancements in both precision and efficiency through the digital design and fabrication of patient photon and electron bolus customized surface and gynecological brachytherapy applicators proton beam compensators and range shifters patient immobilization novel radiation detectors and phantoms various innovations are disrupting decades old practices in radiation therapy rt facilities resulting in vital improvements in personalization of treatment and patient experience an essential read for radiation oncologists medical physicists radiation therapists oncology nurses hospital administrators engineers and medical educators this book is an indispensable resource for those bringing 3d printing to the rt clinic looking to expand the role of 3d printing in their practice or embarking upon related research and development

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learn to model print and fabricate your own 3d designs all with no prior experience this easy to follow fun guide is full of hands on 3d printing projects that will inspire makers of all types ages and skill levels the book features highly illustrated diy examples that show step by step how to put 3d printing technology to work in your own designs 3d printer projects for makerspaces starts with simple one piece items and then gradually introduces more complex techniques to make solid flexible and multi piece snap together creations screenshots diagrams and source code are provided throughout projects include a key charm topo map spirograph game polygon hat phone case even a realistic model plane covers autodesk fusion autocad inkscape sketchup vetric cut 2d and more shows how to use 3d analysis tools to save time and cut waste written by a dedicated maker and college instructor

3d and 4d metallic printing principles practices and applications this practical guide clearly explains the tools and methods necessary to bridge the performance gap between conventionally produced and printed parts written by a metals expert and experienced educator additive manufacturing of metals fundamentals and testing of 3 and 4 d printing starts by explaining the basics including components metals and production processes before progressing to more advanced topics you will get complete discussions on issues related to the lack of regulation and standardization mechanical behavior of printed parts defects measurements and quality control in addition the book also discusses predictions for the future of the technology it presents the potential obstacles that may limit its universal adoption across the manufacturing landscape coverage includes additive manufacturing fundamentals history of additive manufacturing metal properties and data feedstock for metal additive manufacturing processes power considerations in metal additive manufacturing technical gaps powder morphology powder characterization and measurement of properties defects encountered in the build mechanical behavior of printed parts metrology and surface roughness issues in metal printing future trends

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