Information Technology and Law Series

Volume 26

More information about this series at http://www.springer.com/series/8857

Bibi van den Berg · Simone van der Hof Eleni Kosta Editors

3D Printing

Legal, Philosophical and Economic Dimensions





Editors
Bibi van den Berg
eLaw—Center for Law
and Digital Technologies
Leiden University
Leiden
The Netherlands

Simone van der Hof eLaw—Center for Law and Digital Technologies Leiden University Leiden The Netherlands Eleni Kosta
TILT—Tilburg Institute for Law,
Technology and Society
Tilburg University
Tilburg
The Netherlands

ISSN 1570-2782 ISSN 2215-1966 (electronic) Information Technology and Law Series ISBN 978-94-6265-095-4 ISBN 978-94-6265-096-1 (eBook) DOI 10.1007/978-94-6265-096-1

Library of Congress Control Number: 2015953269

© T.M.C. ASSER PRESS and the authors 2016

Published by T.M.C. ASSER PRESS, The Hague, The Netherlands www.asserpress.nl Produced and distributed for T.M.C. ASSER PRESS by Springer-Verlag Berlin Heidelberg

No part of this work may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, microfilming, recording or otherwise, without written permission from the Publisher, with the exception of any material supplied specifically for the purpose of being entered and executed on a computer system, for exclusive use by the purchaser of the work. The use of general descriptive names, registered names, trademarks, service marks etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed on acid-free paper

Springer Science+Business Media B.V. Dordrecht is part of Springer Science+Business Media (www.springer.com)

Series Information

The *Information Technology & Law Series* was an initiative of ITeR, the national programme for Information Technology and Law, which was a research programme set up by the Dutch government and The Netherlands Organisation for Scientific Research (NWO) in The Hague. Since 1995 ITeR has published all of its research results in its own book series. In 2002 ITeR launched the present internationally orientated and English language *Information Technology & Law Series*. This well-established series deals with the implications of information technology for legal systems and institutions. Manuscripts and related correspondence can be sent to the Series' Editorial Office, which will also gladly provide more information concerning editorial standards and procedures.

Editorial Office

T.M.C. Asser Instituut P.O. Box 30461 2500 GL The Hague The Netherlands Tel.: +31-70-3420300

Tel.: +31-70-3420300 e-mail: itandlaw@asser.nl

Simone van der Hof, *Editor-in-Chief*Leiden University, eLaw (Center for Law and Digital Technologies)
The Netherlands

Bibi van den Berg Leiden University, eLaw (Center for Law and Digital Technologies) The Netherlands

Eleni Kosta

Tilburg University, TILT (Tilburg Institute for Law, Technology and Society)
The Netherlands

Ben Van Rompuy T.M.C. Asser Instituut, The Netherlands iMinds-SMIT, Vrije Universiteit Brussel, Belgium

Ulrich Sieber Max Planck Institute for Foreign and International Criminal Law Freiburg Germany

Contents

1	Bibi van den Berg	J
Paı	rt I Legal and Regulatory Issues in 3D Printing	
2	When 3D Printing and the Law Get Together, Will Crazy Things Happen? Michael Weinberg	11
3	CC-PlusDesign.eu—Or How to Apply Creative Commons Licences to 3D Printed Products in the Light of the Most Recent Developments of the European Court of Justice Case Law	37
4	From Material Scarcity to Artificial Abundance: The Case of FabLabs and 3D Printing Technologies	65
Paı	rt II Social, Political and Philosophical Implications of 3D Printing	
5	Possible Printings: On 3D Printing, Database Ontology, and Open (Meta)Design	87
6	The Focal Practice of 3D Printing	99
7	The Killer Idea: How Some Gunslinging Anarchists Held Freedom of Speech at Gunpoint	117

viii Contents

Part	III Economics, Innovation and 3D Printing	
8	Fraud and Froth: Free-Riding the 3D Printing Wave Jonathan Coopersmith	137
9	A Taxonomy of Online 3D Printing Platforms	153
10	Adaptivity and Rapid Prototyping: How 3D Printing Is Changing Business Model Innovation Thierry Rayna and Ludmila Striukova	167
11	How Will Society Adopt 3D Printing?	183

Contributors

Jonathan Coopersmith Texas A&M University, College Station, TX, USA

Primavera De Filippi CERSA/CNRS/Université Paris II, Paris, France; Berkman Center for Internet and Society at Harvard Law School, Cambridge, MA, USA

Jos de Mul Department of Philosophy, Section Philosophy of Man and Culture, Erasmus Universiteit Rotterdam, Rotterdam, The Netherlands

Esther Keymolen Department of Philosophy, Section Philosophy of Man and Culture, Erasmus University Rotterdam, Rotterdam, The Netherlands

Thomas Margoni School of Law, University of Stirling, Stirling, UK

Thierry Rayna Novancia Business School Paris, Paris, France

Ludmila Striukova UCL School of Management, University College London (UCL), London, UK

Peter Troxler Research Centre Creating 010, Rotterdam University of Applied Sciences, Rotterdam, The Netherlands

Bibi van den Berg eLaw—Center for Law and Digital Technologies, Leiden University, Leiden, The Netherlands

Gert van Vugt London School of Economics, London, UK

Caspar van Woensel Leiden Law School, Institute for Private Law, Leiden University, Leiden, The Netherlands

Michael Weinberg Public Knowledge, Washington, DC, USA