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Reprinted from: Technologies 2017, 5(2), 24; doi: 10.3390 /technologies502002469 -- Michael D. M. Kutzer and Levi D. DeVries Testbed for Multilayer Conformal Additive Manufacturing Reprinted from: Technologies 2017, 5(2), 25; doi: 10.3390 /technologies502002582 -- Salvatore Brischetto, Carlo Giovanni Ferro, Paolo Maggiore and Roberto Torre Compression Tests of ABS Specimens for UAV Components Produced via the FDM Technique Reprinted from: Technologies 2017, 5(2), 20; doi: 10.3390 /technologies5020020100 -- Andrei Ilie, Haider Ali and Kamran Mumtaz In-Built Customised Mechanical Failure of 316L Components Fabricated Using Selective Laser Melting Reprinted from: Technologies 2017, 5(1), 9; doi: 10.3390/technologies5010009125 -- Konda Gokuldoss Prashanth, Sergio Scudino, Riddhi P. Chatterjee, Omar O. Salman and Jurgen Eckert Additive Manufacturing: Reproducibility of Metallic Parts Reprinted from: Technologies 2017, 5(1), 8; doi: 10.3390 /technologies5010008137 -- Emily E. Petersen and Joshua Pearce Emergence of Home Manufacturing in the Developed World: Return on Investment for OpenSource 3D Printers Reprinted from: Technologies 2017, 5(1), 7; doi: 10.3390/technologies5010007144 -- Albert E. Patterson, Sherri L. Messimer and Phillip A. Farrington Overhanging Features and the SLM/DMLS Residual Stresses Problem: Review and Future Research Need Reprinted from: Technologies 2017, 5(2), 15; doi: 10.3390/technologies5020015 159.

Sommario/riassunto

Annotation The present Special Issue proposes articles in the area of Additive Manufacturing with particular attention to the different employed technologies and the several possible applications. The main investigated technologies are the Selective Laser Sintering (SLS) and the Fused Deposition Modelling (FDM). These methodologies, combined with the Computer Aided Design (CAD), provide important advantages. Numerical, analytical and experimental knowledge and models are proposed to exploit the potential advantages given by 3D printing for the production of modern systems and structures in aerospace, mechanical, civil and biomedical engineering fields. The 11 selected papers propose different additive manufacturing methodologies and related applications and studies.