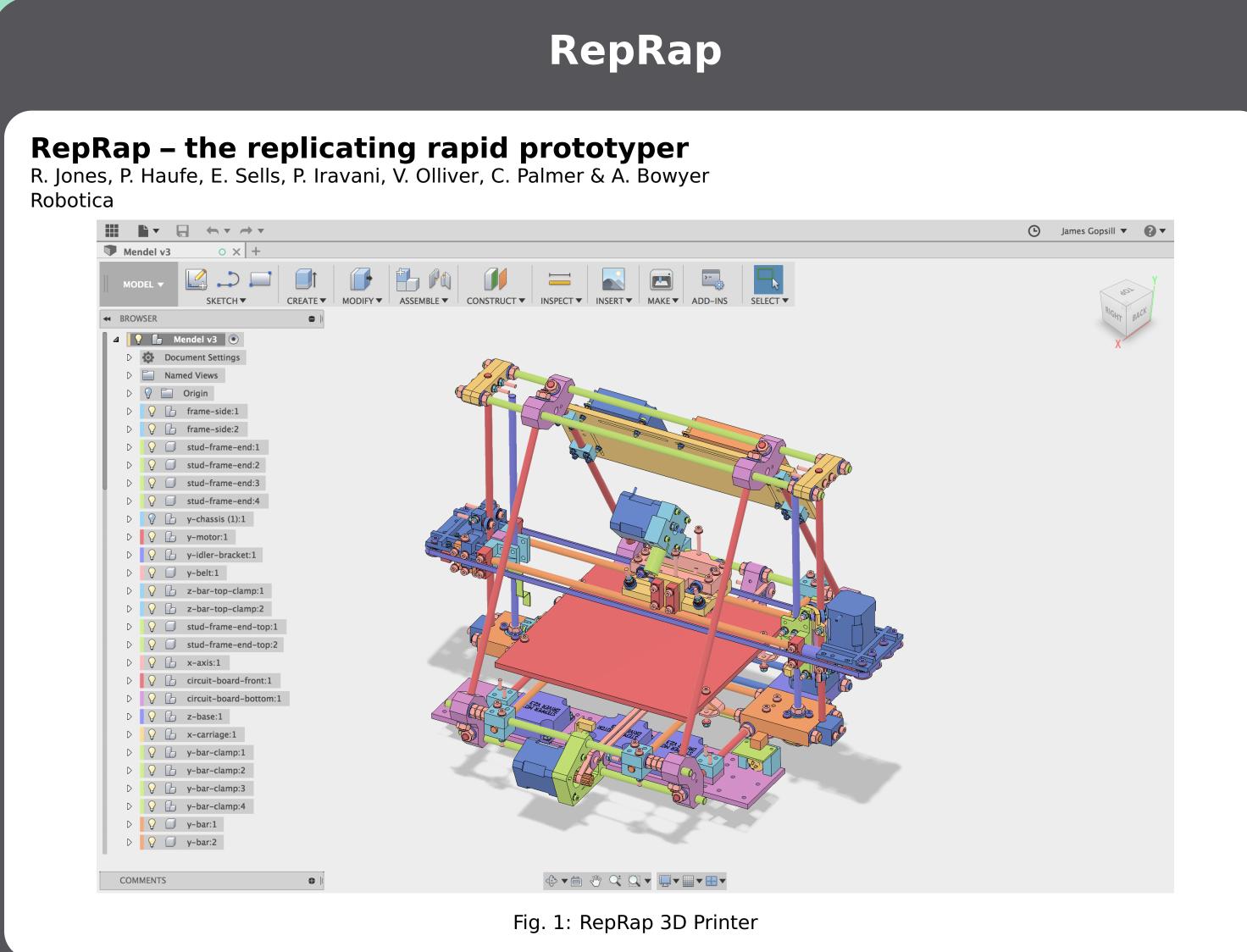
Research

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Infill Optimisation tion Modelled Parts J.A. Gopsill, J. Shindler & B.J. Hicks Progress in Additive Manufacturing (a) STL model (b) FEA model (c) Perimeter identification at deposition layer (d) FEA results at deposition layer (e) Shell generation (f) FEA influences lattice elements (g) Linear infill design (h) FEA influenced infill design (i) Combined infill design (j) Printed design Fig. 2: Infill generation process

Using Finite Element Analysis to Influence the Infill Design of Fused Deposi-

Meaning from Metadata Automatic generation of design structure matrices through the evolution of product models J.A. Gopsill, C. Snider, C. McMahon & B.J. Hicks Artificial Intelligence for Engineering Design, Analysis and Manufacturing Fig. 4: Modelling system architectures through metadata

