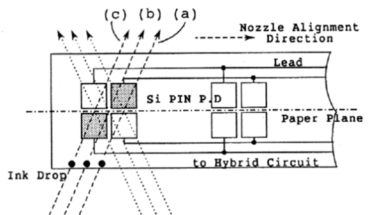




**1985      1990      2004      2008      2016      2019      2024**

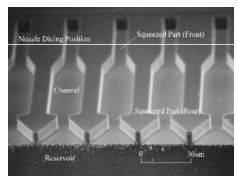
**Continuous Ink Jet**

**Thermal Ink Jet**



**Single Drop Detector**

M. Fujii, Optical Drop Sensor of Continuous Ink Jet Printer, 19th Imaging Technology Conference, 1988



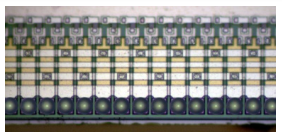
**800npi MEMS Printhead**

M. Fujii, New Thermal Ink Jet Printhead with Improved Energy Efficiency Using Silicon Reactive Ion Etching, The Journal of Imaging Science and Technology, Vol. 43, No. 4, 1999

**2D**

**Applications of Ink Jet**

**3D Printing**



**Micro-Lens Array**

M. Fujii, Issues and Approaches Imposed on Ink Jet for The Progress of Printed Electronics, Transactions on Japanese Institute of Electronics Packaging, Vol. 30, No. 1, 2010

**2.5D**



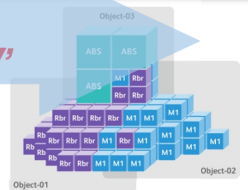
**High Quality, High Speed Full Color 3D Printer**

**3D Data Handling**

**Voxel-Based 3D Data Format 'FAV'**

M. Fujii, New Voxel-Based Data Format FAV for Seamless 3D Data Flow to 3D Printers, IEEE CPMT Society Japan Chapter Workshop on Functional 3D Additive Manufacturing (2016)

**3D**



**4DFF**

**4D**

**4D&Functional Printing (4DFF)**

M. Fujii, 4D and Functional Printing - The Creation of New Values beyond Dimensions - , Journal of the Imaging Society of Japan Vol. 58 No. 4, 2019



**IS&T AWARD**

**JOHAN GUTENBERG PRIZE 2019**

**MASAHIKO FUJII**  
Fuji Xerox

for great achievements and contributions to inkjet technologies and the evolution of these concepts to 3D technologies.

**Johann Gutenberg Prize (2019)**

for great achievements and contributions to **inkjet technologies** and the **evolution** of these concepts to **3D technologies**.

**進化**

