Using Artificial Intelligence for Planning and Imposition

Tyler Thompson

Introduction

Tilia Phoenix 7.0 from Tilia Labs is a modular software application that offers an open-application programming interface (API) for planning and imposition. It utilizes artificial intelligence to make production more efficient for all print sectors, including packaging, labels, wide-format printing, and commercial sheet and web. The InterTech judges said it is one of the best applications of AI for the printing industry that they've seen. Combining planning and prepress functions, Phoenix integrates into any workflow or business system to reduce prepress planning time while automating tasks. And, it optimizes media usage while reducing post-press issues. Phoenix's Imposition AI module powers the software by using smart machine-learning algorithms to manage the production workspace, evaluate possible alternatives, and arrive at the best results. Imposition AI finds solutions that traditional software simply cannot discover. Return on investment occurs in months or weeks as companies see immediate time savings, fewer print runs, and diminished materials cost and waste.

When Inland Packaging was looking for ways to improve its overall efficiency in prepress planning especially for gang runs, the company turned to tilia Phoenix from Tilia Labs. Thanks to the software, jobs that previously took nearly all day can now be completed in only a few hours. The prep department loves the ease with which they can use PDF output to create the plates needed for jobs without manually imposing artwork. In addition to saving time, tilia Phoenix has helped automate Inland's processes both upstream and downstream so that customer orders and artwork can be imported directly into the software, reducing the number of mistakes that would happen with manual entry. Even distribution has benefitted thanks to barcode capabilities that help sort combo jobs into the right boxes.

Phoenix also uses a unique, highly-optimized PDF processing engine, which can analyze 20 GB of artwork files while exporting layout plans 15 times faster than other options. This allows for the ability to feed an HP Indigo 50000 digital press at

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its highest web speed, preparing jobs for shortest roll lengths and supporting inline and near-line finishing of flat work or bound products. Relying on an open API means that customers and third-party vendors can easily integrate with any system while automating almost every area of production. Users can benefit from unique choices of implementation options, providing flexibility and seamless transition.

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