Lab-on-chip design automation takes cue from EDA

R. Colin Johnson
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PORTLAND, Ore. — Algorithms developed by a range of research groups aim to automate microfluidic lab-on-chip technologies that perform chemical identification and medical tests by shuffling nanoliters of samples and reagents around micron-sized channels. Besides shortening the

Besides Carnegie Mellon, research institutions working on microfluidic labs-on-chip—and devising computer-aided techniques to design them—include Duke University, National Taiwan University (Taipei), Oak Ridge National Laboratory (ORNL, Kentucky), Penn State University (Harrisburg), Rensselaer Polytechnic Institute (Troy, N.Y.), the University of Alberta (Canada), the University of California at Los Angeles and the University of Texas (Austin).