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Design for Manufacturability through Design-Process Integration VII

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## Contents

 vii Conference Committee  
 ix Introduction  

### SESSION 1 KEYNOTE SESSION

#### 8684 03  
**Design for manufacturability: a fabless perspective (Keynote Paper)** [8684-2]  
J. P. Cain, Advanced Micro Devices, Inc. (United States)

### SESSION 2 DFDP: DESIGN FOR MULTIPATTERNING

#### 8684 05  
**Diffraction pattern based optimization of lithographic targets for improved printability** [8684-4]  
S. Banerjee, K. B. Agarwal, IBM Corp. (United States)

#### 8684 06  
**Self-aligned double patterning friendly configuration for standard cell library considering placement impact** [8684-6]  
J.-R. Gao, B. Yu, The Univ. of Texas at Austin (United States); R. Huang, Peking Univ. (China); D. Z. Pan, The Univ. of Texas at Austin (United States)

#### 8684 07  
**Evaluation of cost-driven triple patterning lithography decomposition** [8684-7]  
H. Tian, The Univ. of Illinois at Urbana-Champaign (United States); H. Zhang, Q. Ma, Synopsys, Inc. (United States); M. D. F. Wong, The Univ. of Illinois at Urbana-Champaign (United States)

### SESSION 3 DESIGN RULES AND ROUTING

#### 8684 08  
**Self-aligned double patterning compliant routing with in-design physical verification flow** [8684-8]  
J.-R. Gao, The Univ. of Texas at Austin (United States); H. Jawandha, P. Atkar, A. Walimbe, B. Baidya, Intel Corp. (United States); O. Rizzo, Intel Corp. (France); D. Z. Pan, The Univ. of Texas at Austin (United States)

#### 8684 09  
**Pattern matching for identifying and resolving non-decomposition-friendly designs for double patterning technology (DPT)** [8684-9]  
L. T.-N. Wang, V. Dai, L. Capodieci, GLOBALFOUNDRIES Inc. (United States)

#### 8684 0A  
**Detailed routing with advanced flexibility and in compliance with self-aligned double patterning constraints** [8684-10]  
F. Nakajima, C. Kodama, Toshiba Corp. (Japan); H. Ichikawa, Toshiba Microelectronics Corp. (Japan); K. Nakayama, S. Nojima, T. Kotani, S. Mimotogi, S. Miyamoto, Toshiba Corp. (Japan)
8684 0B  Pioneering an on-the-fly simulation technique for the detection of layout-dependent effects during IC design phase [8684-11]  
A. M. S. Tossen, A. Ramadan, Mentor Graphics Egypt (Egypt); R. F. Salem, Mentor Graphics Corp. (Canada)

SESSION 4  DESIGN FOR MANUFACTURABILITY FOR DSA: JOINT SESSION WITH CONFERENCES 8680 AND 8684

8684 0C  Rethinking ASIC design with next generation lithography and process integration [8684-12]  
K. Vaidyanathan, R. Liu, Carnegie Mellon Univ. (United States); L. Liebmann, K. Lai, IBM Corp. (United States); A. Strojwas, L. Pileggi, Carnegie Mellon Univ. (United States)

SESSION 5  OPTICAL AND DFM I: JOINT SESSION WITH CONFERENCES 8683 AND 8684

8684 0D  Enhanced spacer-is-dielectric (sid) decomposition flow with model-based verification [8684-13]  
Y. Du, Synopsys, Inc. (United States) and The Univ. of Illinois at Urbana-Champaign (United States); H. Song, J. Shiely, Synopsys, Inc. (United States); M. D. F. Wong, The Univ. of Illinois at Urbana-Champaign (United States)

8684 0E  Mask strategy and layout decomposition for self-aligned quadruple patterning [8684-14]  
W. Kang, Peking Univ. Shenzhen Graduate School (China); C. Feng, The Univ. of Michigan (United States); Y. Chen, Peking Univ. Shenzhen Graduate School (China)

8684 0F  Process characteristics and layout decomposition of self-aligned sextuple patterning [8684-15]  
W. Kang, Y. Chen, Peking Univ. Shezhen Graduate School (China)

SESSION 6  OPTICAL AND DFM II: JOINT SESSION WITH CONFERENCES 8683 AND 8684

8684 0G  Triple patterning lithography (TPL) layout decomposition using end-cutting [8684-16]  
B. Yu, J.-R. Gao, D. Z. Pan, The Univ. of Texas at Austin (United States)

8684 0H  Process window analysis of algorithmic assist feature placement options at the 2X nm node DRAM [8684-17]  
J. Jeon, S. Kim, J. Song, C. Park, H. Yang, D. Yim, SK hynix Semiconductor Inc. (Korea, Republic of); B. Ward, Y. Zhang, K. Hooker, Synopsys, Inc. (United States); M. Do, J.-H. Choi, Synopsys Korea Inc. (Korea, Republic of); S. Jang, Synopsys, Inc. (United States)

SESSION 7  DESIGN IMPLICATIONS AND VARIABILITY

8684 0I  Compact modeling of fin-width roughness induced FinFET device variability using the perturbation method [8684-18]  
Q. Cheng, W. Kang, Y. Chen, Peking Univ. Shenzhen Graduate School (China)
| 8684 0J | Understanding device impact of line edge/width roughness in frequency domain [8684-19] |
|         | P. Xie, H. Ren, A. Nainani, H. Dai, C. Benchner, C. Ngai, Applied Materials, Inc. (United States) |

| 8684 0K | SRAM circuit performance in the presence of process variability of self-aligned multiple patterning [8684-20] |
|         | W. Xiao, Q. Cheng, Y. Chen, Peking Univ. Shenzhen Graduate School (China) |

| 8684 0L | Post-routing back-end-of-line layout optimization for improved time-dependent dielectric breakdown reliability [8684-21] |
|         | T.-B. Chan, A. B. Kahng, The Univ. of California, San Diego (United States) |

| 8684 0M | Double patterning: solutions in parasitic extraction [8684-22] |
|         | D. Petranovic, J. Falbo, N. Kurt-Karsilayan, Mentor Graphics Corp. (United States) |

**SESSION 8  ALGORITHMS FOR DFM**

| 8684 0N | Model based hint for litho hotspot fixing beyond 20nm node [8684-23] |
|         | J. –H. Kang, B.-M. Kim, N. Ha, H. Choi, K. Kim, Samsung Electronics Co., Ltd. (Korea, Republic of); S. Mohamed, K. Madkour, Mentor Graphics Corp. (Egypt); W. ElManhawy, Mentor Graphics Corp. (United States); E. Lee, Mentor Graphics Corp. (Korea, Republic of); J.-M. Brunet, J. Kwan, Mentor Graphics Corp. (United States) |

| 8684 0O | A novel algorithm for automatic arrays detection in a layout [8684-24] |
|         | M. Shafee, Mentor Graphics Corp. (Egypt); J.-W. Park, A. Aslyan, A. Torres, Mentor Graphics Corp. (United States); K. Madkour, Mentor Graphics Corp. (Egypt); W. ElManhawy, Mentor Graphics Corp. (United States) |

| 8684 0P | An automated resource management system to improve production tapeout turn-around time [8684-25] |
|         | E. Guo, Q. Liu, S. Zhu, J. Wu, Semiconductor Manufacturing International Corp. (China); J. Tsai, Mentor Graphics Corp. (United States); J. Lu, Mentor Graphics Corp. (China); M. C. Simmons, Mentor Graphics Corp. (United States) |

**POSTER SESSION**

| 8684 0Q | A novel methodology for building robust design rules by using design based metrology (DBM) [8684-5] |
|         | M. Lee, Sungkyunkwan Univ. (Korea, Republic of) and Samsung Electronics Co., Ltd. (Korea, Republic of); S. Choi, J. Choi, J. Kim, H. Sung, H. Yeo, M. Shim, G. Jin, E. Chung, Samsung Electronics Co., Ltd. (Korea, Republic of); Y. Roh, Sungkyunkwan Univ. (Korea, Republic of) |

Author Index
Conference Committee

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Session Chairs
1. Keynote Session
   Mark E. Mason, Texas Instruments Inc. (United States)
   John L. Sturtevant, Mentor Graphics Corporation (United States)

2. DFDP: Design for Multipatterning
   Lars W. Liebmann, IBM Corporation (United States)
   Juan-Antonio Carballo, Broadcom Corporation (United States)
3 Design Rules and Routing
Luigi Capodieci, GLOBALFOUNDRIES Inc. (United States)
Chi-Min Yuan, Freescale Semiconductor, Inc. (United States)

4 Design for Manufacturability for DSA: Joint Session with Conferences 8680 and 8684
Benjamen M. Rathsack, Tokyo Electron America, Inc. (United States)
Lars W. Liebmann, IBM Corporation (United States)

5 Optical and DFM I: Joint Session with Conferences 8683 and 8684
Mark E. Mason, Texas Instruments Inc. (United States)
Will Conley, Cymer, Inc. (United States)

6 Optical and DFM II: Joint Session with Conferences 8683 and 8684
Kafai Lai, IBM Corporation (United States)
John L. Sturtevant, Mentor Graphics Corporation (United States)

7 Design Implications and Variability
Robert Aitken, ARM Inc. (United States)
Michael L. Rieger, Synopsys, Inc. (United States)

8 Algorithms for DFM
Chul-Hong Park, SAMSUNG Electronics Company, Ltd.
(Korea, Republic of)
Jason P. Cain, Advanced Micro Devices, Inc. (United States)
Introduction

It's been an exciting two years for me as Chair of the SPIE conference on Design for Manufacturability through Design-Process Integration (DfM-DPI). I am privileged to work with a program committee comprised of top industry contributors that have become good friends. It's an honor to work alongside of them, and this conference would certainly not exist without their ongoing efforts.

Seven years ago we started this conference based on two ideas. First, it was clear that Design for Manufacturability would be important for the semiconductor industry. Second, we recognized that process engineering (particularly lithography and related disciplines like etch and metrology) would play a key role in defining DfM tools. It's clear now that these assertions were correct.

Now in our seventh year of the DfM-DPI conference, the program committee could not be happier with the quality of work that has been submitted for publication. As usual, various experts from around the world participated representing various segments of the semiconductor industry. We are particularly excited about the quality of student papers this year, and appreciate the strong representation from Europe, Asia, and the Americas.

Our keynote speakers this year were outstanding, as is our tradition. Chris Mack lead the charge, challenging the design community to make better use of available process technology. DfM experts (and program committee members) Luigi Capodeici and Jason Cain presented the industry view of DfM from both the foundry and fabless perspective, respectively. These excellent keynotes were supported by strong technical sessions that were impressive in both their quality and breadth, covering a wide range of topics. Emphasis on double patterning implications was apparent this again year, as you might expect given continued delays and disappointments on the EUV front.

Like last year, a highlight of the event was the joint session with the Optical Lithography conference. Again leveraging the powerful overlap between computational lithography topics like OPC and SMO, two joint sessions were presented featuring papers of mutual interest to both conferences. As in previous years, the crowd was standing-room-only. Special thanks Will Conley and the Optical team for making this happen again this year.

Stated simply, the conference was very successful by any measure. As a personal note, I would like to thank the authors and conference attendees for their active participation: this conference is for you, and you make it happen.

Of course none of this would be possible without the generous support (and patience) of my co-chair (John Sturtevant of Mentor Graphics) and SPIE staff.
Further, I deeply appreciate the efforts of the conference program committee for all their help in putting the program together and chairing sessions.

Next year, our new Chair, John Sturtevant takes the reigns. He is already working hard alongside his new co-chair, Luigi Capodieci, to put together an even better program for 2014.

We cannot wait to see you there.

Mark E. Mason
John L. Sturtevant