



WORKSHOP LEAD: Dr. Todd Younkin, Semiconductor Research Corporation (SRC)

DATE: Thursday, August 20, 2020

TIME: 2:15 PM – 5:45 PM

DESCRIPTION

The JUMP program co-funds U.S. universities with 12 major semiconductor, computing, and aerospace companies to undertake high-risk, high-payoff research that addresses existing and emerging challenges in microelectronic technologies. This JUMP program workshop aims to provide an overview of the six research centers under the JUMP program and selected technical highlights.

AGENDA

2:15 PM	<i>Joint University Microelectronics Program (JUMP)</i> Dr. Dev Palmer, DARPA MTO, Deputy Director
2:20 PM	<i>ComSenTer Overview & Accomplishments</i> Dr. Ali Niknejad, University of California, Berkeley, Professor
2:30 PM	<i>ComSenTer Deep Dive : 140 and 210 GHz Array Technologies</i> Dr. Mark Rodwell, University of California, Santa Barbara, Professor
2:45 PM	<i>CBRIC Center Overview & Accomplishments</i> Dr. Kaushik Roy, Purdue University, Professor
2:55 PM	<i>CBRIC Deep Dive: Reverse Engineering Visual Intelligence with Lessons for Machine Learning</i> Dr. James DiCarlo, MIT, Professor
3:10 PM	<i>ADA Center Overview & Accomplishments</i> Dr. Valeria Bertacco, University of Michigan, Professor
3:20 PM	<i>ADA Deep Dive: Successful Acceleration of Diverse SoC Designs in ADA</i> Dr. Gu-Yeon Wei, Harvard, Professor
3:35 PM	<i>QnA - JUMP Session #1</i>
Afternoon Break: 3:45 PM – 4:00 PM	
4:00 PM	<i>JUMP, A Collaborative Public-Private Research Ecosystem</i> Dr. Todd Younkin, Semiconductor Research Corporation, Executive Director
4:05 PM	<i>CONIX Center Overview & Accomplishments</i> Dr. Anthony Rowe, CMU, Professor
4:15 PM	<i>CONIX Deep Dive: Enhanced Situational Awareness, Teaming, and Decision Making with XR</i> Dr. Prabal Dutta, University of California, Berkeley, Professor
4:30 PM	<i>ASCENT Overview & Accomplishments</i> Dr. Suman Datta, Notre Dame, Professor
4:40 PM	<i>ASCENT Deep Dive: Probabilistic Computing with p-Bits: Between Bits and q-Bits</i> Dr. Supriyo Datta, Purdue University, Professor



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4:55 PM	<i>CRISP Overview & Accomplishments</i> Dr. Kevin Skadron, University of Virginia, Professor
5:05 PM	<i>CRISP Deep Dive : Bioinformatics Grand Challenge and its Acceleration In Memory</i> Dr. Tajana Rosing, University of California, San Diego, Professor
5:20 PM	<i>QnA - JUMP Session #2</i>

Virtual Exhibit Hall Office Hours: 5:45 PM – 6:45 PM

QUESTIONS

Please contact Dr. Dev Palmer for more information following this workshop at dev.palmer@darpa.mil.