ART 2019 – Final Program

Thursday 14, November

PM		
04:00	Opening	Yervant Zorian (Synopsys)
		Paolo Bernardi (Politecnico di Torino)
04:20	keynote	Davide Appello (STMicroelectronics)
		Automotive, the Roadmap of Technologies and their Influences on Testing
05:00	Break	
05:30	panel	Security and Safety Challenges in Automotive
	organizer:	Giorgio Di Natale (TIMA)
	moderator:	Rob Aitken (ARM)
	panelists:	Nir Maor (Qualcomm)
		Sandip Ray (University of Florida)
		Francesco Regazzoni (AlaRI)
		Shreyas Sen (Purdue University)
		Daniel Tille (Infineon Technologies)
07:00	Welcome Rec	ception

POSTERS with brief oral presentation on Friday 15, November

<u>Progressive ECC Techniques for Reliability Enhancement of Flash Memory</u>

Shyue-Kung Lu (National Taiwan University of Science and Technology)

- In Situ DC Loop Gain and Stability Measurement of LDOs using a Nulling Op-Amp Servo Loop Anurag Tulsiram and William Eisenstadt (University of Florida)
- <u>Universal automotive motor test bench controller</u>
- George Flutur, Ovidiu Stan and Liviu Miclea (Cluj-Napoca University)
- Bridging Gaps in Automotive Digital Twin

Mohamed Abdelsalam, John Stickley and Ashraf Salem (Mentor Graphics)

• <u>Embedding Effective Reliability Fault Detection</u>

Nigel G Kissaun (ELES)

All posters competes for the Best ART Poster Award 2019 and are introduced during session 1.

Friday 15, November				
	<u>TEST DURING FUNCTIONAL OPERATION</u> Daniel Tille (Infineon Technologies)			
	 <u>DFT Signals and Safety during Functional Operation</u> <i>Teresa McLaurin (ARM)</i> <u>A Possible Strategy for the Development of Software Test Libraries for different</u> <u>Processors of the same Family</u> 			
	 Davide Piumatti, Ernesto Sanchez, Rosario Martorana and Mose Alessandro Pernice (Politecnico di Torino, STMicroelectronics) Brief posters introduction – 1 min per each poster 			
10:00 Poster session				
<i>10:30</i> Embedded tuto Moderator:	Paolo Bernardi (Politecnico di Torino) • Using Applicative Test to Increase Confidence on Screening Quality Davide Appello (STMicroelectronics)			
	: <u>Hot topics from the industry experts</u> <u>Wim Dobbeleare (ON Semiconductors)</u> <i>Ralf Arnold (Infineon Technologies)</i> <i>Adam Cron (Synopsys)</i> <i>Nilanjan Mukherjee (Mentor)</i> <i>Alan Hales (Texas Instruments)</i>			
<i>12:00</i> Lunch				
	 MACHINE LEARNING ISSUES AND SOLUTIONS Ernesto Sanchez (Politecnico di Torino) Analysis of SEU susceptibility of Quantized Neural Network Hardware Accelerators via Error Injection Giulio Gambardella, Johannes Kappauf, Michaela Blott, Christoph Doehring, Martin Kumm, Peter Zipf and Kees Vissers (XILINX) Increasing the Robustness of Camera-based Depth Perception Methods for Objects at Large Distances Vlad Miclea, Liviu Miclea and Sergiu Nedevschi (Cluj-Napoca University) Cell-Aware Diagnosis of Automotive Customer Returns Based on Supervised Learning Safa Mhamdi, Patrick Girard, Arnaud Virazel, Alberto Bosio and Aymen Ladhar (LIRMM, STMicroelectronics) 			

02:30 Poster session

03:00	Session 3	IN-FIELD TESTING
	Moderator:	<u>Gurgen Harutyunyan (Synopsys)</u>
		In-field Functional Test of CAN Bus Controllers
		Riccardo Cantoro, Sandro Sartoni and Matteo Sonza Reorda (Politecnico di Torino)
		<u>Anatomy of an in-die tester for infield testing</u>
		Sreejit Chakravarty, Edward Brazil, Rakesh Kandula, Neel Shah, Sarath Varma, A
		Karthika and Veeresha Bevinamatti (Intel)
		• Increasing the Robustness of Software Test Libraries in Multi-core System-on-
		Chips
		Andrea Floridia, Davide Piumatti, Annachiara Ruospo, Ernesto Sanchez (Politecnico di
		Torino), Rosario Martorana and Mose Alessandro Pernice (STMicroelectonics)
04:00 E	Best Poster Aw	vard announcement and Closing

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