

UC San Diego

CONTEXTUAL ROBOTICS INSTITUTE

FORUM 2017

INTELLIGENT VEHICLES 2025



Presented by

Jacobs School of Engineering
Division of Social Sciences
Qualcomm Institute at UC San Diego

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7:30 AM	REGISTRATION + BREAKFAST	
8:30 AM	WELCOME REMARKS	
	<p>Pradeep K. Khosla Chancellor, UC San Diego</p> <p>Albert P. Pisano Dean, Jacobs School of Engineering</p>	<p>Carol Padden Dean, Division of Social Sciences</p> <p>Matt Grob Executive VP, Technology Qualcomm Technologies, Inc.</p>
9:00 AM	AUTONOMY	
	<p>Xiaodi Hou CTO, TuSimple</p> <p>Henrik I. Christensen (<i>chair</i>) Director, Contextual Robotics Institute</p>	<p>Sanjiv Nanda VP Engineering, Corporate R&D, Qualcomm, Inc.</p>
10:15 AM	NETWORKING BREAK (30MIN)	
10:45 AM	PANEL ON LEGAL AND SOCIETAL IMPLICATIONS	
	<p>Bruce Appleyard Active Transportation Research, Assoc. Professor, SDSU</p>	<p>Peter Thompson Senior Technology Analyst, SANDAG</p>
NOON	LUNCH + TECHNOLOGY SHOWCASE (90MIN)	
1:30 PM	VEHICLE TECHNOLOGY	
	<p>Doug L. Davis Senior VP and General Manager, Automated Driving Group, Intel</p> <p>Gabriel Rebeiz Electrical engineering professor, UC San Diego</p>	<p>Sujit Dey Electrical engineering professor Director, Center for Wireless Communications, UC San Diego</p> <p>Todd Hylton (<i>chair</i>) Executive Director, Contextual Robotics Institute</p>
2:45 PM	BREAK	
3:00 PM	PANEL ON USER EXPERIENCE	
	<p>David Bruemmer Founder, 5D Robotics CEO, Adaptive Motion Group</p> <p>Mohan Trivedi Laboratory for Intelligent & Safe Automobiles, UC San Diego</p>	<p>Michael Phillippi VP of Technology, Lytx</p> <p>Peter Schulmeyer Director, Strategy NXP Semiconductors</p> <p>Don Norman (<i>chair</i>) Director, UC San Diego Design Lab</p>
3:45 PM	AUTONOMOUS VEHICLES @ UC SAN DIEGO	
	<p>Henrik I. Christensen – Director, Contextual Robotics Institute</p>	
4:00 PM	QUALCOMM CHANCELLOR'S ENDOWED CHAIR INTRODUCTION	
	<p>Matt Grob / Pradeep K. Khosla / Albert P. Pisano / Henrik I. Christensen</p>	

4:30 – 5:30 PM RECEPTION AND TECHNOLOGY SHOWCASE

Existential Robotics Laboratory

Nikolay Atanasov

Electrical & Computer Engineering

Social Robotics Research Projects

Andrea Chiba and colleagues

Department of Cognitive Science

Cognitive Robotics

Henrik I. Christensen

Cognitive Robotics Laboratory
Computer Science & Engineering

Human-swarm Coordination

Jorge Cortes & Sonia Martinez

MURO Lab
Mechanical & Aerospace Engineering

Driverless Vehicle Interfaces:
Will you walk in front of me?

UC San Diego Design Lab

TREDS: Training, Research and
Education for Driving Safety

Linda Hill, MD MPH

Director, Preventive Medicine Residency
UC San Diego School of Medicine

Underwater Localization
for Marine Robotics

Ryan Kastner

Computer Science & Engineering

Drones 4 Good: Digitally Preserving
World Cultural Heritage

Falko Kuester

UC San Diego DroneLab, UC San Diego
Cultural Heritage Engineering Initiative,
Structural Engineering

Healthcare Robotics

Laurel Riek

Healthcare Robotics Lab
Computer Science & Engineering

Micro/Nanorobots for Biomedicine:
Delivery, surgery, sensing, and
detoxification

**Joseph Wang, Yi Chen &
Liangfang Zhang**

NanoEngineering

Surgical Robots, Artificial Muscles,
Path Generation, and Motion
Planning

Michael Yip

Advanced Robotics and Controls Lab
Electrical & Computer Engineering



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