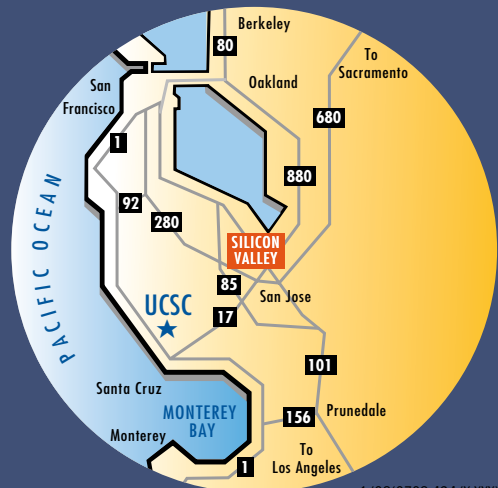


On the Web: [www.ce.ucsc.edu](http://www.ce.ucsc.edu)

**UC Santa Cruz is the University of California campus serving Silicon Valley:** The campus is located off Highway 1 on the Central Coast of California 75 miles south of San Francisco, 350 miles north of Los Angeles, and 30 miles southwest of San Jose.



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Department of Computer Engineering  
1156 High Street  
Santa Cruz, CA 90564

# Computer Engineering @ UC SANTA CRUZ



**SRI KURNIAWAN:**

*Expanding our interdisciplinary research in Assistive Technology*



The Baskin School of Engineering is dedicated to collaborative, interdisciplinary research and training at the forefront of modern technology. Students and faculty work across traditional boundaries to engage in innovation and discovery.

With 100 faculty members, the Baskin School of Engineering comprises six departments:

Applied Mathematics & Statistics

Biomolecular Engineering

**Computer Engineering**

Computer Science

Electrical Engineering

Technology & Information Management (planned)

**8 undergraduate programs**

**6 graduate programs**

**350 graduate students**

**800 undergraduate students**

## Department of Computer Engineering

**Networks:** Wireless networks, high-speed networks, sensor networks, algorithms and protocols for computer communication, quality of service

*A. Brandwajn, J.J. García-Luna-Aceves, R. Gopalakrishnan, K. Obraczka, B. Smith, A. Varma*

**Embedded and Autonomous Systems:** Embedded software design and verification, robotics and control, autonomous vehicles, sensor fusion, biomolecular control

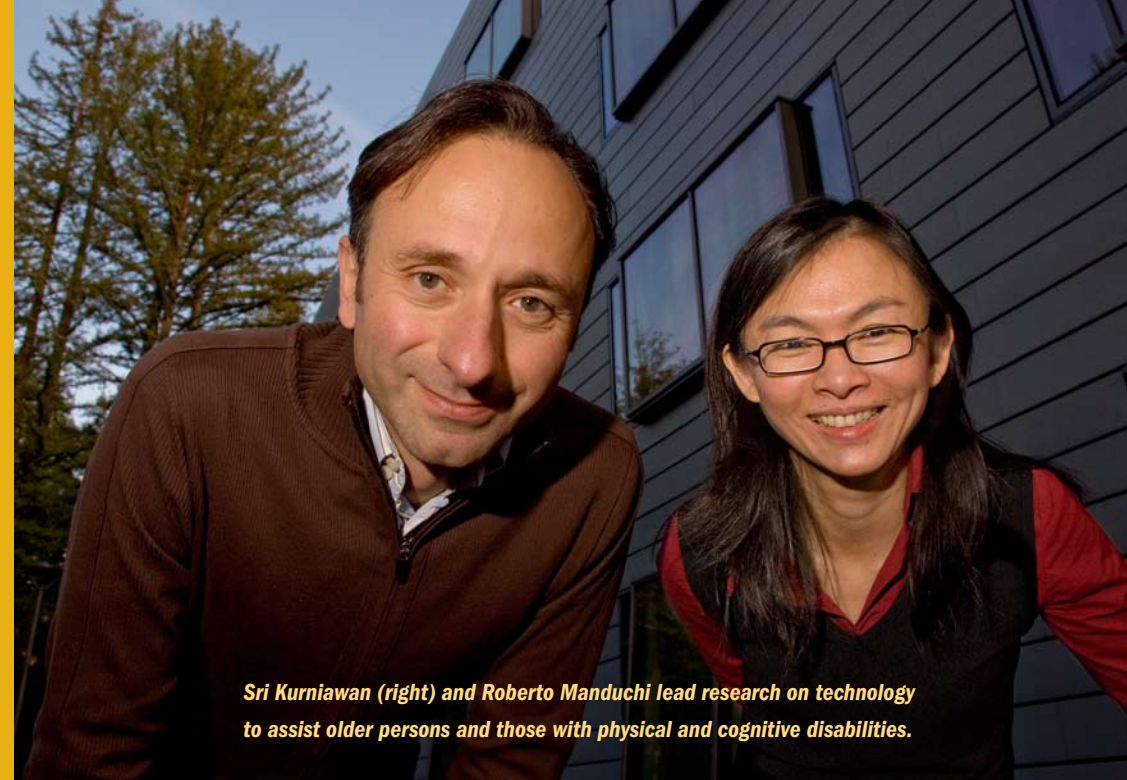
*L. de Alfaro, C. Bazeghi, W. Dunbar, G. Elkaim, S. Peterson*

**Computer System Design:** CAD of VLSI, computer architecture, parallel and distributed systems, VLSI and FPGA design, placement and routing, fault diagnosis

*A. Brandwajn, P. Chan, A. Di Blas, F.J. Ferguson, M. Guthaus, R. Hughey, T. Larrabee, J. Renau, M. Schlag*

**Sensing and Interaction:** Computer vision, remote sensing, telemetry, computer-based collaboration, assistive technology, human-computer interaction.

*L. de Alfaro, S. Kurniawan, R. Manduchi, P. Mantey, H. Tao*



*Sri Kurniawan (right) and Roberto Manduchi lead research on technology to assist older persons and those with physical and cognitive disabilities.*



**Assistive technology research** at UC Santa Cruz's Department of Computer Engineering focuses on innovative computer-based systems to help persons with special needs. Projects include humming interfaces, drawing for children with cognitive impairment, a laser-based replacement for the traditional white cane, and cell phone applications such as wayfinding for people with visual impairment and rehabilitation of stroke survivors. This research is funded by the National Science Foundation and the National Institutes of Health.

Assistive Technology is just one focus of UCSC's **bioengineering program**, a collaboration of seven departments.