



**The Center for Control, Dynamical Systems, and Computation  
University of California at Santa Barbara  
Winter 2007 Seminar Series  
Presents**

## **Fifty Years of Pontryagin's Maximum Principle**

**Petar Kokotovic**

**University of California, Santa Barbara**

**Friday, February 16th, 2007 3:00pm-4:00pm ESB 2001**

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### **Abstract:**

As soon as it was published in 1956-1958, this principle became an instant celebrity. I will give my personal recollections about the background and the content of this milestone in control theory. An elementary derivation and a few examples will be included.

### **About the Speaker:**

Petar V. Kokotovic has been active as control engineer, researcher and educator, first in his native Yugoslavia and then, from 1966 through 1990, at the University of Illinois, where he held the endowed Grainger Chair. In 1991 he joined the University of California, Santa Barbara where he directed the Center for Control Engineering and Computation until 2003. He has co-authored ten books and numerous articles contributing to sensitivity analysis, singular perturbation methods, and robust adaptive and nonlinear control. As a consultant to Ford, he contributed to the development of the first series of automotive computer controls. At General Electric, he participated in large scale power systems studies. In collaboration with the United Technologies, he conducted research on jet engine axial compressor control. He is a Life Fellow of IEEE, Fellow of IFAC, and a member of National Academy of Engineering, USA. He received the 1983 and 1993 Outstanding IEEE Transactions Paper Awards and presented the 1991 Bode Prize Lecture. For his research he was recognized with the three highest control engineering awards: 1990 IFAC Quazza Medal, 1995 IEEE Control Systems Award, and 2002 AACC Richard E. Bellman Control Heritage Award. For his contributions to graduate education, he was recognized by the 2002 IEEE James H. Mulligan Jr. Education Medal.

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