



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Certifies that

Manfred J. Morari

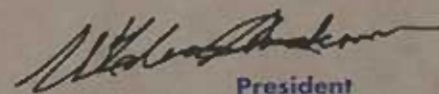
has been elected to the grade of

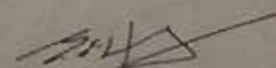
Fellow

for contributions to robust and model predictive control and control of hybrid systems.



1 January 2005


President


Secretary