


SHAFAI, Esfandiar		
Present Position:	Lecturer at the Mechanical Engineering Department of the Federal Institute of Technology in Zürich (ETH Zürich)	
Address:	Institute for Dynamic Systems and Control (IDSC) Sonneggstrasse3, ML K37.4 ETH-Zentrum CH-8092 Zurich, Switzerland	
Phone: E-Mail:	+41 44 6322467 shafai@idsc.mavt.ethz.ch	
Born in Tehran, Iran, July 5, 1954, citizen of Switzerland and Iran		
Degrees/Higher Education		
1979	Dipl. Masch.-Ing. ETH (Master of Science in Mechanical Engineering)	
1990	Dr. sc. techn. ETH	
Research		
1981 – 1990	Development and construction of an Engine test bench with the capability of hardware-in-the-loop for dynamical tests and vehicle emulation on spark-ignited (SI) Engines (Topic of my doctoral dissertation).	
1986 – 1996	Head of the engine group at IDSC with the goal of developing mathematical models for the SI-engines as well as designing robust air-to-fuel-ratio (Lambda) controllers to meet the emission standards.	
1991 – 1997	Head of a research group within the Hybrid-III project of the ETH Zürich with the goal of developing mathematical models of the Hybrid drive-line as well as developing controller for the engine and the transmission system of the Hybrid-III car.	
1997 – 2005	Head of the heat pump group at IDSC as well as project leader of several heat pump projects of the Swiss Federal Office of Energy (SFOE) with the goal of optimizing the operation of the heat pumps in the dwelling-houses. The main research focus was on the fault detection as well as adaptive control of the heating system based on weather forecast.	
List of publications: http://www.idsc.ethz.ch/people/staff/shafai-e		
Teaching/Advising		
1979 – 1990	Teaching Assistant at IDSC (ETH Zürich) for System Modeling and Control.	
1990 – 1995	Supervisor of teaching assistants at IDSC (ETH Zürich).	
1995 – 2005	Lecturer for teaching Control at BS and systemidentification at MS level at the Mechanical Engineering Department of ETH Zürich (D-MAVT).	
1995/10/2–4 and 1996/10/2–4	Introductory course on parameteridentification offered for the participants from industry and from the technical colleges of higher education.	
2004 – present	High school teacher in Mathematics (part time).	
2005 – 2007	Advisor of prospective students at D-MAVT in the pilot project ACAP (Academic and Career Advisory Program) of ETH-Zürich.	
2007 – present	Supervisor of phd-students at IDSC for organizing and carrying out the exercises and the exams in the following lectures: Control Systems and System Modeling at BS level as well as Digital Control Systems at MS level.	
2012 – present	Lecturer for System Modeling and Digital control Systems at D-MAVT.	