



Javier Contreras received the B.S. degree in Electrical Engineering from the University of Zaragoza, Zaragoza, Spain, in 1989, the M.Sc. degree in Electrical Engineering from the University of Southern California, Los Angeles, in 1992, and the Ph.D. degree in Electrical Engineering from the University of California, Berkeley, in 1997. Since 1998 he has been with the University of Castilla – La Mancha (UCLM), Ciudad Real, Spain, where he is currently Full Professor. Dr. Contreras has also been a visiting scholar at the University of Hong Kong and the University of Illinois at Urbana-Champaign. He has been a consultant for several electricity companies in Spain and has participated as principal investigator in national, European and international research projects. In particular, he was part of a European

project devoted to the introduction of renewable generation in smart distribution grids. He has also been part of the evaluation committee of international research projects in the European Commission, Spain, Portugal, Italy, Cyprus and Colombia.

Dr. Contreras has focused his research towards a broad cross-disciplinary program in the area of price forecasting, electricity markets, renewable energy and operation and planning of electrical power systems. Within electricity markets he has focused on their mathematical modeling, including both technical and economic issues as well as risk measures for power producers. Issues such as uncertainty, stochastic programming, price forecasting, real options and other methodologies have been addressed by him. Within the field of renewable energy, Dr. Contreras has analyzed control strategies for stand-alone renewable energy systems with hydrogen storage, design of grid connected PV systems considering electrical, economic and environmental aspects, optimal contract pricing of distributed generation in distribution networks and risk assessment of wind power generation project investments based on real options.

Dr. Contreras is an active member of *IEEE Power and Energy Society* (PES) as part of the Electricity Market Economics and the System Economics Subcommittees, among others. He reviews papers for many international conferences and journals, such as *IEEE Transactions on Power Systems*, *Energy Policy*, *Energy Economics*, and others. He is or has been editor of *IEEE Transactions on Smart Grid*, *IEEE Transactions on Sustainable Energy*, *IEEE Power Engineering Letters*, *IET Renewable Power Generation*, and the *Journal of Energy Engineering-ASCE* (2012-2018) and has been Guest Editor of *IEEE Transactions on Smart Grid Special Issue on “Real-Time Demand Response”*, *IEEE Transactions on Sustainable Energy Special Issue on “Reserve and Flexibility for Handling Variability and Uncertainty of Renewable Generation”*, *IEEE Transactions on Special Topics on Signal Processing Special Issue on “Signal and Information Processing for Critical Infrastructures”* and *IET Renewable Power Generation Special Issue on “Demand Side Management and Market Design for Renewable Energy Support and Integration”*. He is **Fellow of IEEE**.