

Green Energy 2021

Recycling 2021

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Jose Manuel Lopez-Guede, Expert Opin Environ Biol 2021, Volume 10

Photovoltaic elements modeling

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Obtaining accurate models for prediction of photovoltaic devices behavior is very relevant to make realistic simulations including these elements to obtain and enhanced performance of photovoltaic systems. In the plenary talk, a review of the mayor methods to model this kind of devices will be carried out, from both a theoretical and empirical point of view.

Biography

Jose Manuel Lopez-Guede received the M.Sc. degree in 1999 and the Ph.D. degree in 2012, both in Computer Engineering at the University of the Basque Country (UPV/EHU), Spain.

He got 3 investigation grants, and from 2000 to 2004 he worked at an Industrial Informatics company. Since 2004 he is working at University of the Basque Country (UPV/EHU), Spain. His current position is Assoc. Prof. with the Systems Engineering and Automatic Control Department at the Faculty of Engineering Vitoria-Gasteiz, Spain. From 2010 to 2018, he has been the Coordinator of the Bachelor in Industrial Electronic Engineering and Automatics degree of the Basque Country University, and Vicedean from January 2018 to January 2020. He also is advisor at the National Distance Education University of Spain. His teaching areas are Electronics and Computer Science, and he has been the Coordinator of 3 granted Projects in Educational Innovation and participated as collaborator in 2 more projects. He participated in an Erasmus KA2 project from 2015 to 2018 as coordinator in Spain. He has participated in Erasmus actions (2012, 2014, 2015, 2016, 2017) and has been investigator in 25 competitive projects. He is coauthor of more than >290 papers, >30 in the field of Educational Innovation and the remaining in specific research areas: he has >60 SCI JCR publications, >40 other journals and >150 chapters and conferences, >10 invited talks and >15 plenary talks. He as belonged to >15 organizing committees of several international conferences and to more than 15 scientific committees. His research interests are robotics and computational intelligence techniques applied to different areas as Energy, Robotics, etc.