

CURRICULUM VITAE

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Walter Zamboni received the Laurea degree (*summa cum laude*, 2001) and the Ph. D. degree (2004) in Electrical Engineering from the Università degli studi di Napoli Federico II, Italy. In 2003, he was a Stager with the European Organization for Nuclear Research (CERN), Geneva, Switzerland, and a Visiting Scientist with the Superconductivity Group, Plasma Physics Research Center, Ecole Polytechnique Federale de Lausanne (EPFL-CRPP), Villigen, Switzerland.

He is an associate professor of electrical engineering with the Università degli studi di Salerno, Italy from May 2016. From 2005 to 2008, he was a research fellow with the Università degli studi di Cassino, Italy. From 2006 to 2008, he has been lecturer in Circuit Theory at the Università degli studi del Sannio, Italy. In 2008 he joined the Università degli studi di Salerno, where he was assistant professor until 2016.

He is a member of IEEE and of IMACS (International Association for Mathematics and Computers in Simulation). In IEEE, he is a member of the IEEE Industrial Electronics Society (IES), of the IEEE-IES Technical Committee Energy Storage. He co-organized several special sessions on energy storage modelling, simulations and diagnostic in the framework of the international conferences IEEE ISIE 2013, IECON 2013, ISIE 2014, ISIE 2015. He served as Track Chair at IEEE IESSES 2020, IEEE ENERGYCON 2020.

In IMACS, he is a member of the Technical Committee ELECTRIMACS, in which he serves as Secretary from 2019.

In 2019, he was General chair of the conference ELECTRIMACS 2019 Salerno, Italy, co-sponsored by IMACS and IEEE-IES.

He was Editor of the books ELECTRIMACS 2019 Selected Papers Volume 1 and 2, published by Springer International in 2020. He was Managing guest editor of the Special issue ELECTRIMACS 2019 Energy and guest editor of the special issue ELECTRIMACS 2019 Engineering, published in MATCOM – Mathematics and Computers in Simulation.

He is coauthor of more than 90 papers published in international journals and conferences proceedings, mainly in the fields of energy storage modelling, state estimation, identification and diagnosis, power electronics modelling, computational electromagnetics, numerical modelling for applied superconductivity and nanotechnology.

At present, his main research interests include modelling and simulation of electrochemical devices, such that rechargeable batteries and fuel cell, development of algorithm for renewable systems and energy storage diagnosis with particular focus on online diagnostics.

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