

Conférence

Five Non-Volatile Memristor Enigmas Solved

Dr. Leon CHUA

Berkeley University, USA

Jeudi 27 juin 2019, 9h45-11h15

INSA Centre Val de Loire

Campus de Bourges



Abstract

This talk is presented at a deeper level based on nonlinear circuit concepts and nonlinear dynamics. This talk will include some videos (with sound) to help demonstrate some fascinating memristive phenomena and applications. An introduction will be proposed for a general audience without any background or prerequisite on memristors, to help enhance their understanding, and appreciation, of the unusual memristor concepts and its applications in many fields and disciplines.

Biography

Leon Chua is widely known for his invention of the Memristor and the Chua's Circuit. His research has been recognized internationally through numerous major awards, including 17 honorary doctorates from major universities in Europe and Japan, and 7 USA patents. He was elected as Fellow of IEEE in 1974, a foreign member of the European Academy of Sciences (Academia Europea) in 1997, a foreign member of the Hungarian Academy of Sciences in 2007, and an honorary fellow of the Institute of Advanced Study at the Technical University of Munich, Germany in 2012. He was honored with many major prizes, including the Frederick Emmons Award in 1974, the IEEE Neural Networks Pioneer Award in 2000, the first IEEE Gustav Kirchhoff Award in 2005, the International Francqui Chair (Belgium) in 2006, the Guggenheim Fellow award in 2010, Leverhulme Professor Award (United Kingdom) during 2010-2011, and the EU Marie Curie Fellow award, 2013.

Prof. Chua is widely cited for the 12 hugely popular lectures he presented at the hp Chua Lecture Series, entitled "From Memristors and Cellular Nonlinear Networks to the Edge of Chaos", during the fall of 2015, and now accessible through YouTube via the link,

<https://www.youtube.com/playlist?list=PLtS6YX0YOX4eAQ6IrOZSta3xjRXzpcXyi>