Marie Cottrell

Pr. Marie Cottrell was born in Béthune (France). She was a student at the Ecole Normale Supérieure de Sèvres, and received the Agrégation de Mathématiques degree in 1964 (with 8° place), and the Thèse d'Etat (Modélisations de réseaux de neurones par des chaînes de Markov et autres applications) in 1988.

From 1964 to 1967, she was a High School Teacher. From 1967 to 1988, she was successively an Assistant and an Assistant Professor at the University of Paris and at the University of Paris-Sud (Orsay), except from 1970 to 1973, on which she was a Professor at the University of Habana, Cuba. From 1989 to 2012, she was a full Professor at the University Paris 1 - Panthéon-Sorbonne. Since 2012, she is a Professor Emeritus.

She is a permanent invited professor at the University of Havana, a senior member of the IEEE Society, an honorary member of the Cuban Society of Mathematics and Computation, an Honorary Doctor of the Aalto University School of Science and Technology.

Her research interests include stochastic algorithms, large deviation theory, machine learning and computational intelligence, theory and algorithms for artificial neural networks, linear and non linear exploratory data analysis, non linear forecasting methods. Since 1986, her main work deals with artificial and biological neural networks, Kohonen maps and their applications in data analysis.

She is the author of about 140 publications in this field.. She is regularly solicited as referee or international conference program committee member. She organized several international conferences. She was in charge of the laboratory SAMM (Statistics, Analysis, Multidisciplinary Modelization) at the University Paris 1 until 2012.