



International Fatma Moalla Award 2019 (IFMA) for Popularization of Mathematics

The Jury designates Aboubaker Maitournam as the winner.

Report on the application of Aboubakar MAITOURNAM



- Age : 54 years old. Male. Niger.
- Teaching and research position since 2006 in the University Abdou Moumouni of Niamey, Faculty of Sciences and Techniques, Department of Mathematics and Computer Sciences, Niamey, Niger.
- PhD 1999 mathematics and computer science, University of Paris 5 René Descartes.
- Research areas: Probabilities, statistics and algorithmics, applied to the processing of medical images.
- Publications : 20.
- Popularization and other general knowledge papers: 6.

Title : «Boole's algebra, computer science and the metadata era»

Report : The presentation of Aboubakar Maitournam is very interesting. It explains in a clear and concise way the human journey from the act of reasoning to the art of reasoning, which is Logic. This is a mathematical discipline based on Boole's algebra and used in the design and simplification of electronic circuits, which are at the heart of our modern society of, indifferently, information,

telecommunications, data, metadata or Bigdata and recently machine learning. That said, the candidate should enrich his presentation for a general audience, by illustrating, in a popularized manner, an example (where we can see some mathematical symbols and some images) of application of the Boole's algebra in one of the fields he evokes (signal modeling, information processing, artificial intelligence, ...).