



## Aho & Ullman: An Eternal Golden Braid

**Christiano Braga - Professor Associado (UFF)**

Douglas Hofstadter published a very nice book in 1979 named "Godel, Escher, Bach: An Eternal Golden Braid" where the author identified mathematical elements in the work of Godel, Escher, and Bach. In particular, self-reference. The braid resulting from the combined work of Alfred Vaino Aho and Jeffrey David Ullman work is also golden. Together, and with no less important contributions from their supervisors, colleagues and former students, they paved the foundations of programming languages theory and practice, among other contributions. They have made mathematically precise fundamental elements of automata theory and languages together with algorithms in a rigorous method for compiler construction.

Aho & Ullman was and still is indeed a golden braid. The fact that they are the recipients of 2020 ACM Turing Award made it also eternal.

This talk is a tribute to their work. But also an acknowledgment for what they have done for Computer Science, and perhaps more importantly, for Computer Scientists, myself included, throughout the world.

**Christiano Braga** is currently Associate Professor of Computer Science at the Computing Institute of Universidade Federal Fluminense (UFF), where he leads the Theoretical Computer Science Research Group. He is a member of FADoSS research group at Universidad Complutense de Madrid and a collaborator of TecMF at PUC-Rio and TCS Co-Innovation Network partner.

He obtained his PhD. from Pontifícia Universidade Católica do Rio de Janeiro in 2001, and was a visiting scholar at the Computer Science Laboratory of SRI International. His main research interests are formal methods and semantics of programming languages. A large part of his research has Rewriting Logic as its underlying logical and semantic framework with the Maude system, such as The Maude MSOS Tool (MMT).

**23/06**  
quarta

**às 18 horas**

**Acompanhe ao vivo  
no YouTube**

