Dr Dejan Vukobratovic

University of Novi Sad

Rateless Codes and Applications

Abstract: Invented about a decade ago, rateless (or fountain) codes attract a lot of attention due to their efficiency, flexibility and versatility. In this talk, we review the basic properties of rateless codes and some of their interesting applications the author has been working on that include fountain code design for multimedia delivery, distributed storage and multiple access control.

Biography: Dejan Vukobratovic received the Dr.-Ing. degree in electrical engineering from the University of Novi Sad, Novi Sad, Serbia, in 2008. Since 2009, he has been an Assistant Professor and since 2014 an Associate Professor with the Department of Power, Electronics and Communication Engineering, University of Novi Sad. From June 2009 until December 2010, he was on leave as a Marie Curie Intra-European Fellow at the University of Strathclyde, Glasgow, U.K. From 2011 to 2014, his research is supported by a Marie Curie European Reintegration Grant. His research interests include sparse-graph codes, iterative decoding, and network coding with applications in multimedia communications and wireless sensor networks.