

Cycle de Conférences du Laboratoire MIPS 2014-2015

22 juin 2015 à 14h00 Amphithéâtre F - IUT de Colmar

COOPERATIVE COMMUNICATIONS AND DISTRIBUTED BEAMFORMING

Pr Hamid Jafarkhani

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"IEEE ComSoc Distinguished Lecturer Tour"

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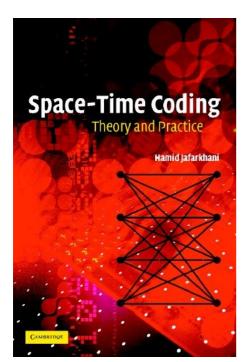
We present a general description of current wireless communication technologies. We argue the need for cooperative wireless networks and discuss the existing methodologies.

We present the distributed nature of the network and the distributed beamforming methods that use full channel state information. Then, we address the role of quantized feedback in relay networks.

Finally, we discuss the effects of interference in wireless relay networks and the design of quantized feedback in wireless relay-interference networks.

Biography:

Hamid Jafarkhani is a Chancellor's Professor at the Department of Electrical Engineering and Computer Science, University of California, Irvine, where he is also the Director of Center for Pervasive Communications and Computing and the Conexant-Broadcom Endowed Chair.



Dr. Jafarkhani ranked first in the nationwide entrance examination of Iranian universities in 1984. He was a co-recipient of the American Division Award of the 1995 Texas Instruments DSP Solutions Challenge. He received an NSF Career Award in 2003. He received the UCI Distinguished Mid-Career Faculty Award for Research in 2006 and the School of Engineering Fariborz Maseeh Best Faculty Research Award in 2007. Also, he was a co-recipient of the 2002 best paper award of ISWC, the 2006 IEEE Marconi Best Paper Award in Wireless Communications, the 2009 best paper award of the Journal of Communications and Networks, the 2012 IEEE Globecom best paper award (Communication Theory Symposium), the 2013 IEEE Eric E. Sumner Award, and the 2014 IEEE Communications Society Award for Advances in Communication.

He is listed as a highly cited researcher in http://www.isihighlycited.com.

According to the Thomson Scientific, he is one of the top 10 mostcited researchers in the field of "computer science" during 1997-2007

He is a Fellow of AAAS, an IEEE Fellow, a Distinguished Lecturer for IEEE Communications Society, and the author of the book "Space-Time Coding: Theory and Practice."