

Keynote I



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Abstract

In this talk I will be presenting two related papers that have to do with energy savings in wired networks. In the first paper I present a model that allows to estimate the energy savings of links that implement the new standards IEEE 802.3az Energy Efficient Ethernet, as a function of simple traffic parameters. Under this standard, the link can go to a low power mode when there is not traffic over the link. Then, in a network of (idealized) EEE links, I present algorithms to schedule and route packets in order to reduce energy consumption while maintaining the latency low.

About the Speaker

Dr. Antonio Fernández Anta is a Research Professor at IMDEA Networks Institute. Previously he was a Full Professor at the Universidad Rey Juan Carlos (URJC) in Madrid, where he has been on the Faculty since 1998. He was before on the Faculty of the Universidad Politécnica de Madrid, where he received an award for his research productivity. He has been a postdoc at MIT from 1995 to 1997. He has almost 20 years of research experience, with a steady productivity of more than 5 papers per year on average. He has published in top conferences and journals like INFOCOM, STOC, FOCS, PODC, DISC, Journal of the ACM, SIAM Journal on Computing, or IEEE Transactions on Computers. He is vice chair of the Steering Committee of DISC and has served in the TPC of numerous conferences and workshops. He is a senior member of the IEEE since 2002 and of the ACM since 2007. Antonio Fernández Anta received his M.Sc. and Ph.D. degrees in Computer Science from the University of Louisiana in 1992 and 1994, respectively. He completed his undergraduate studies (Licenciado and Diplomado en Informática) at the Universidad Politécnica de Madrid, Spain, in 1988 and 1991 respectively, having received awards at the university and at a national level for his academic performance.