Acord núm. 204/2005 del Consell de Govern, pel qual s’aprova la proposta de doctorat *Honoris Causa* de l’Escola Tècnica Superior d’Enginyeria de Telecomunicació de Barcelona.

- Document aprovat per la Comissió Permanent del dia 18/7/2005.
Sr. Josep Ferrer Llop
Rector
UPC
Edifici R – Campus Nord

Benvolgut Rector,

La Junta d’Escola de l’ETSETB en sessió ordinaria del dia 29 de juny de 2005, va acordar sol·licitar al Consell de Govern de la UPC el nomenament de Doctor Honoris Causa per al Dr. Sergio Verdú, de la Universitat de Pricenton.

Aquesta sol·licitud es fonamenta, entre altres, en el següents mèrits del Dr. Sergio Verdú:

El Dr. Sergio Verdú va rebre el grau d’Enginyer de Telecomunicació per l’Escola Tècnica Superior d’Enginyeria de Telecomunicació de Barcelona l’any 1980. Va obtenir el millor expedient de la seva promoció i va rebre el premi del Ministeri d'Educació. Va obtenir el Grau de Doctor a la Universitat d'Illinois l'any 1984, i la seva tesi va ser pionera en el camp de la Detecció Multiusuari.

El Dr. Verdú ha estat l’autor de dos llibres d'àmplia difusió en l’àmbit de la Teoria de la Informació i de capítols d’una altra desena de llibres. Ha estat també editor de dos llibres i autor d’un centenar d’articles en revistes de reconegut prestigi.


En l’actualitat és catedràtic de la reconeguda Universitat de Princeton i ha estat professor convidat en nombroses universitats de prestigi, en congressos, en seminaris, i en importants empreses del sector de les telecomunicacions.

Per tot això, amb la present, us faig pales la sol·licitud de l’ETSETB i us prego la presenteu al Consell de Govern de la UPC.

Agraït.

Cordialment,

Juan A. Fernández Rubio
Director

Barcelona, 30 de juny de 2005

P.D. S’adjunta un extracte del currículum del Dr. Sergio Verdú
BIOGRAPHY

Sergio Verdú is a Professor of Electrical Engineering at Princeton University where he teaches and conducts research on information theory in the Information Sciences and Systems Group. He is also affiliated with the Program in Applied and Computational Mathematics.

Sergio Verdú was born in Barcelona, Catalonia, Spain on August 15, 1958. He received the Telecommunications Engineering degree from the Polytechnic University of Barcelona, Barcelona, Spain, in 1980 and the Ph.D. degree in Electrical Engineering from the University of Illinois at Urbana-Champaign in 1984. Conducted at the Coordinated Science Laboratory of the University of Illinois, his doctoral research pioneered the field of Multiuser Detection.

Sergio Verdú was a recipient of a Fulbright Fellowship, the National University Prize of Spain, an IBM Faculty Development Award, the Rheinstein Outstanding Junior Faculty Award of the School of Engineering and Applied Science at Princeton University, a Presidential Young Investigator Award from the National Science Foundation, a Princeton Engineering Council Award for excellence in undergraduate teaching, the 2000 Frederick E. Terman Award from the American Society for Engineering Education, and the IEEE Third Millennium Medal in 2000.

In 1998, Cambridge University Press published his book "Multiuser Detection." His papers have received several awards: the D. Fink Paper Award from the IEEE, the 1998 Information Theory Outstanding Paper Award, a Golden Jubilee Paper Award from the IEEE Information Theory Society, the 2000 Paper Award from the Japan Telecommunications Advancement Foundation, and the 2002 Leonard G. Abraham Prize Award from the IEEE Communications Society.

Sergio Verdú has served as Associate Editor of the IEEE Trans. on Automatic Control, and as Associate Editor for Shannon Theory of the IEEE Transactions on Information Theory. He was elected Fellow of the IEEE in 1993 for "contributions to multiuser communications and to information theory." He served as an elected member of the IEEE Information Theory Society Board of Governors in 1989-1999, and was President of the IEEE Information Theory Society in 1997. He is currently Editor-in-Chief of Foundations and Trends in Communications and Information Theory.

He has held visiting appointments at the Australian National University, the Technion-Israel Institute of Technology, and the University of Tokyo. In 1998 he was Visiting Professor at the Electrical Engineering and Computer Science Department of the University of California, Berkeley, CA and in 2002 he held the Hewlett-Packard Visiting Research Professorship at the Mathematical Sciences Research Institute, Berkeley, CA. He is a member of the Technion Center for Communication and Information Technology, and the Technical Advisory Board of Flarion Technologies.
PUBLICATIONS

BOOK

MONOGRAPH

EDITED BOOKS


BOOK CHAPTERS (last 5 years)


JOURNAL ARTICLES (last 5 years)


INVITED LECTURES (last 5 years)


S. Verdú, "Physical-Layer Channel Research: The Road Ahead," Distinguished IEEE Communications Society Lecture, IEEE Hong Kong Chapter of Circuits and Systems and Communications Societies, City University of Hong Kong, Hong Kong SAR, China, Dec. 17, 2004

S. Verdú, "Physical-Layer Channel Research: The Road Ahead," Distinguished IEEE Communications Society Lecture, Tsinghua University, Beijing, China, Dec. 15, 2004

S. Verdú, "Discrete Denoising," Distinguished IEEE Communications Society Lecture, Tsinghua University, Beijing, China, Dec. 14, 2004


S. Verdú, "Connections between MMSE Estimation and Information Theory," Invited Keynote Address, 2004 International Zurich Seminar on Communications (IZS), ETH Zurich, Switzerland, Feb. 18-20, 2004


S. Verdú, "Lossless Data Compression with Low-Density Parity-Check Codes," Department of Electrical Engineering Colloquium, Yale University, New Haven, CT, Nov. 5, 2003.


S. Verdú, "Error Correcting Codes for Noiseless Data Compression," Summer Research Institute, School of Computer and Communications Sciences, EPFL, Lausanne, Switzerland, July 10, 2003


S. Verdú, "Universal Discrete Denoising," CISCO Seminar on Networking, Communications and DSP, Department of Electrical Engineering and Computer Science, University of California, Berkeley, May 7, 2003


S. Verdú, "Random Matrices in Wireless Communications," Summer Research Institute, School of Computer and Communications Sciences, EPFL, Lausanne, Switzerland, July 15, 2002
S. Verdú, "Fading Channels in the Power Limited Regime," Invited Talk, Qualcomm, Inc, San Jose, CA, June 7, 2002

S. Verdú, "Fading Channels in the Power Limited Regime," Invited Talk, Department of Electrical Engineering, California Institute of Technology, Pasadena, CA, May 9, 2002

S. Verdú, "Fading Channels in the Power Limited Regime," Invited Talk, Department of Electrical Engineering, University of California, Santa Barbara, May 7, 2002


S. Verdú, "Mathematics and Wireless Communications," Invited Talk, Board of Trustees meeting, Mathematical Sciences Research Institute, Berkeley, CA Mar. 9, 2002


S. Verdú, "Capacity of Wireless Networks," Data Fusion in Large Arrays of Microsensors, Multidisciplinary Research Initiative Meeting, Army Research Laboratory, Beltsville, Md, July 17, 2000


S. Verdú, "Some Recent Developments in Multiuser Detection," Department of Electrical Engineering Stanford University, Stanford, California May 11, 2000

S. Verdú, "Some Recent Developments in Multiuser Detection," ATT Shannon Laboratory, Florham Park, NJ May 1, 2000

S. Verdú, "Some Recent Developments in Multiuser Detection," Mathematical Sciences Department, Lucent Technologies-- Bell Laboratories, Murray Hill, NJ April 24, 2000

S. Verdú, "Some Recent Developments in Multiuser Detection," The Advanced Networks Colloquium Series, Center for Satellite and Hybrid Communication Networks, University of Maryland, College Park, Md, April 21, 2000


AWARDS AND RECOGNITION

2002 Leonard G. Abraham Prize Award, IEEE Communications Society

Plenary Lecturer, 2002 IEEE Int. Symposium on Information Theory, Lausanne, Switzerland, June 2002

Distinguished Lecturer, IEEE Communications Society, 2001-2002

2000 Frederick Emmons Terman, American Society for Engineering Education

IEEE Millennium Medal, 2000

2000 Paper Award, Japan Telecommunications Advancement Foundation

Golden Jubilee Paper Award, IEEE Information Theory Society, 1998

1998 Information Theory Outstanding Paper Award

President, IEEE Information Theory Society, 1997

Vice President, IEEE Information Theory Society, 1996

Second Vice President, IEEE Information Theory Society, 1995

IEEE Region 9 Distinguished Speakers Tour, IEEE Communications Society, Oct.-Nov. 1995, Argentina, Chile and Brazil

1992 IEEE Donald G. Fink Prize Award

IEEE Fellow, (for "contributions to Multiuser Communications and Information Theory"), 1992

Lady Davis Fellow, Technion--Israel Institute of Technology, 1991


Engineering Council Award for Excellence in Teaching, 1989 - Princeton University, School of Engineering and Applied Science

Representative of the IEEE Information Theory Society, IEEE Region 10 Tour, October, 1989

IEEE Senior Member, 1988

NSF Presidential Young Investigator Award, 1988

A. Rheinstein Award, Outstanding Junior Faculty Member, 1987 - Princeton University, School of Engineering and Applied Science
IBM Faculty Development Award, 1985

NSF Research Initiation Award, 1985

Student Paper Award 1984, Illinois Chapter - Sigma Xi

IBM Graduate Fellowship, 1983

Elected to Membership in: Tau Beta Pi, 1982; Sigma Xi, 1984

National University Prize 1982, Ministry of Education of Spain

Prize Antonio Mora 1981, Asociacion Mutualista de la Ingenieria Civil, Spain

First in 1980 Graduation Class Award, School of Telecommunications Engineering, Polytechnic University of Barcelona, Barcelona, Spain

Fulbright Scholarship 1980, Educational Exchange Commission USA-Spain

National prize to the Best Scholar 1980, Ministry of Education of Spain