

# Experiencias en Calidad de Experiencia en Telecomunicaciones

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JNT#2019





# Sobre las Telecomunicaciones

- “La **UIT** se sitúa **en el mismo centro del sector de las TIC**, obteniendo acuerdos respecto de las **tecnologías, los servicios y la atribución de recursos globales** tales como el espectro de radiofrecuencias y las posiciones orbitales de los satélites, a fin de **crear un sistema permanente de comunicación global que sea robusto, fiable y evolucione de manera continua.**
- **La red mundial de telecomunicaciones internacionales es la mayor y más sofisticada hazaña jamás lograda por la ingeniería.** Usted la utiliza cada vez que se conecta a la web, envía un correo electrónico o SMS, escucha la radio, ve la televisión, hace una compra en línea, viaja en avión o en barco – y, por supuesto, cada vez que utiliza un teléfono móvil, un teléfono inteligente o una computadora de tableta.”

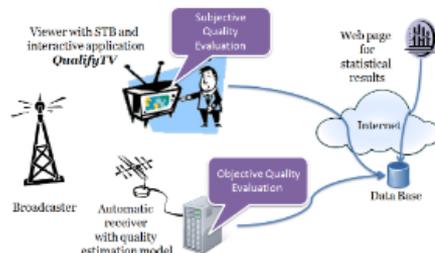
## Quality Indicators for Digital Television

This project consists in the generation of video quality indicators for Terrestrial Digital Television.

The project includes the development of an objective indicator of video quality for television signals. The indicator, similar to MOS (Mean Opinion Score), varies from 1 to 5 and reflects how a medium observer qualifies video quality of the signal transmitted by the broadcaster. The indicator was developed on the basis of existing quality estimation models and new models recently proposed by the research group.

Additionally, as part of the project, an interactive interface was developed, allowing the viewers to qualify the video quality of each digital television signal, resulting in a subjective quality indicator.

The objective indicator obtained and the average subjective opinions for each signal are accessible from this page, allowing comparison of the video quality between the various TV signals, and thereby helping to ensure that broadcasters deliver best possible video quality.



### Members of the research team



### Participating Institutions



## Project Presentations

### PuntaShow 2013

Punta del Este, Uruguay, March 13th, 2013

[Newsletter in Prensario Internacional](#)

[Newsletter in Broadcasters News](#)

### International Forum ISDB-T 2013

Montevideo, Uruguay, May 27-29th, 2013 [www.tvd.gub.uy](http://www.tvd.gub.uy), under the category Documentación / Presentaciones técnicas.

### IEEE BMSB 2013

IEEE International Symposium on Broadband Multimedia Systems and Broadcasting London, United Kingdom, June 5-7th, 2013

<http://www.ieee-bmsb.org/>

### JIAP 2013

[Automatic Estimation of Video Quality in ISDB-T](#)

XXII Computer Conference of Uruguay

Montevideo, Uruguay, August 14-16th, 2013

### OITA Digital Television Forum 2013

International Telecommunication Organization of the Americas

Buenos Aires, Argentina, October 16th, 2013

### IEEE LATINCOM 2013

Workshop on Communications

Chile, November 24-26th, 2013

<http://www.ieee-latincom.org/2013/>



<p><a href="#">Towards a General Parametric Model for Perceptual Video Quality Estimation</a></p> <p>J Joskowicz, R Sotelo, JCL Ardao          Transactions on Broadcasting 59 (4), 569 - 579</p>	41	2013
<p><a href="#">A Model for Video Quality Assessment Considering Packet Loss for Broadcast Digital Television Coded in H. 264</a></p> <p>J Joskowicz, R Sotelo          International Journal of Digital Multimedia Broadcasting 2014 (doi:10.1155 ...</p>	21	2014
<p><a href="#">Comparison of parametric models for video quality estimation: Towards a general model</a></p> <p>J Joskowicz, R Sotelo, JCL Arado          IEEE international Symposium on Broadband Multimedia Systems and ...</p>	17	2012
<p><a href="#">Subjective video quality assessments for 4K UHD TV</a></p> <p>R Sotelo, J Joskowicz, M Anedda, M Murrioni, DD Giusto          2017 IEEE International Symposium on Broadband Multimedia Systems and ...</p>	10	2017
<p><a href="#">Subjective video quality test: Methodology, database and experience</a></p> <p>R Sotelo, J Joskowicz, JP Garella, D Durán, M Juayek          2015 IEEE International Symposium on Broadband Multimedia Systems and ...</p>	10	2015
<p><a href="#">Medida de la calidad de voz en redes IP</a></p> <p>J Joskowicz, R Sotelo          Memoria de Trabajos de Difusión Científica y Técnica, 12-23</p>	9	2007

<p><b>Sistema de transmisión ISDB-T</b>  R Sotelo Bovino, D Diego, J Joskowicz  Memoria de Trabajos de Difusión Científica y Técnica, 67-77</p>	8 *	2011
<p><b>Modulación digital: aplicación a la televisión digital en DVB</b>  R Sotelo Bovino, D Durán  Memoria de Trabajos de Difusión Científica y Técnica, 42-63</p>	8 *	2008
<p><b>Automation of subjective video quality measurements</b>  J Joskowicz, R Sotelo, M Juayek, D Durán, JP Garella  Proceedings of the Latin America Networking Conference on LANC 2014, 7</p>	7	2014
<p><b>Modelo de Estimación de Calidad de Video: Video Quality Experts Groups.</b>  J Joskowicz, R Sotelo  Memoria de Trabajos de Difusión Científica y Técnica</p>	5	2012

<p>Quantitative modeling of the impact of video content in the ITU-T G. 1070 video quality estimation function</p> <p>J Joskowicz, JCL Ardao, R Sotelo</p> <p>Informática na educação: teoria &amp; prática 14 (2)</p>	4	2011
<p>Combining full reference and no reference models for broadcast digital tv quality monitoring in real time</p> <p>J Joskowicz, R Sotelo, JP Garella, P Zinemanas, M Simón</p> <p>IEEE Transactions on Broadcasting 62 (4), 770-784</p>	3	2016
<p>Monitoring QoE on digital terrestrial TV: a comprehensive approach</p> <p>JP Garella, E Grampín, R Sotelo, J Baliosian, J Joskowicz, G Guimerans, ...</p> <p>2016 IEEE International symposium on broadband multimedia systems and ...</p>	3	2016

<p>Including the effects of video content in the itu-t g. 1070 video quality function</p> <p>J Joskowicz, JCL Ardao, R Sotelo</p> <p>Cadernos de Informática 6 (1), 227-232</p>	3	2011
<p>Measuring the incidence of packet loss on video quality in Digital Television</p> <p>J Joskowicz, R Sotelo</p> <p>2014 IEEE International Instrumentation and Measurement Technology ...</p>	2	2014
<p>Video Quality Indicators for ISDB-Tb Free to Air Digital Television</p> <p>R Sotelo, J Joskowicz</p> <p>2013 IEEE International Symposium on Broadband Multimedia Systems and ...</p>	2	2013
<p>An Artificial Neural Network approach for No-Reference High Definition Video quality assessment</p> <p>M Juayek, R Sotelo</p> <p>2016 IEEE International Symposium on Broadband Multimedia Systems and ...</p>	1	2016

<p>Subjective and objective video quality assessment. A parametric model for digital television coded with H. 264</p> <p>R Sotelo</p> <p>2015 CHILEAN Conference on Electrical, Electronics Engineering, Information ...</p>	1	2015
<p>Advances in video quality estimation models: An Overview</p> <p>J Joskowicz, R Sotelo</p> <p>IEEE Latin America Transactions 11 (6), 1279-1285</p>	1	2013
<p>Considerations on Packet Loss Incidence on the Perceived Video Quality in Digital Television</p> <p>J Joskowicz, R Sotelo</p> <p>Workshop on Communications-IEEE LATINCOM, 1</p>	1	2013
<p>Extension to 4K Resolution of a Parametric Model for Perceptual Video Quality Estimation</p> <p>R Sotelo, J Joskowicz, R Puddu, DD Giusto, M Anedda</p> <p>2018 IEEE Broadcast Symposium (BTS), 1-5</p>		2018
<p>A survey on the sensitivity and selectivity of consumer ISDB-Tb receivers</p> <p>R Sotelo, Á Pérez</p> <p>2017 IEEE International Conference on Consumer Electronics (ICCE), 416-417</p>		2017
<p>A proposal to include video quality assessment as an integral part of Hybrid TV Systems</p> <p>R Sotelo, J Joskowicz</p> <p>2016 8th IEEE Latin-American Conference on Communications (LATINCOM), 1-6</p>		2016

1. plenaria en telecomunicaciones:" subjective and objective video quality assessment. a parametric model for digital television coded with h. 264" 2015  
R Sotelo  
2015 CHILEAN Conference on Electrical, Electronics Engineering, Information ...
- Estimación automática de calidad de video en televisión digital abierta ISDB-T basada en indicadores objetivos y subjetivos 2014  
D Durán, JP Garella, M Juayek, J Joskowicz, RS Bovino  
Memoria Investigaciones en Ingeniería, 7-16
- Video Quality Estimation Models: Video Quality Experts Groups 2012  
J Joskowicz, R Sotelo  
MEMORIA-INVESTIGACIONES EN INGENIERIA, 7-17
- Modelos de estimación de calidad de video 2012  
J Joskowicz, R Sotelo  
Memoria de Trabajos de Difusión Científica y Técnica

## Guest editorial special issue on quality of experience for advanced broadcast services

M Murrioni, R Rassool, L Song, R Sotelo  
IEEE Transactions on Broadcasting 64 (2), 335-340

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2018



- IEEE Transactions on Broadcasting es Q1 en las categorías “Electrical and Electronic Engineering” y en “Media Technology.”



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## Resultados del Concurso Latinoamericano de Tesis de Maestría CLTM 2017 (CLEI)

Sat, 08/26/2017 - 02:54 — admin

### Resultados del Concurso Latinoamericano de Tesis de Maestría CLTM 2017 (CLEI)

#### 1er premio

Modelado de calidad percibida de video en Televisión Digital Abierta (#ID: 2831)

**Juan Pablo Garella Lena**

(FING, UY)

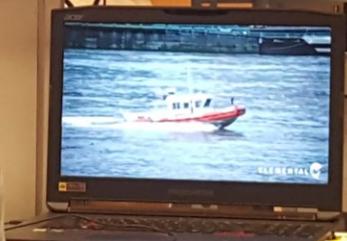
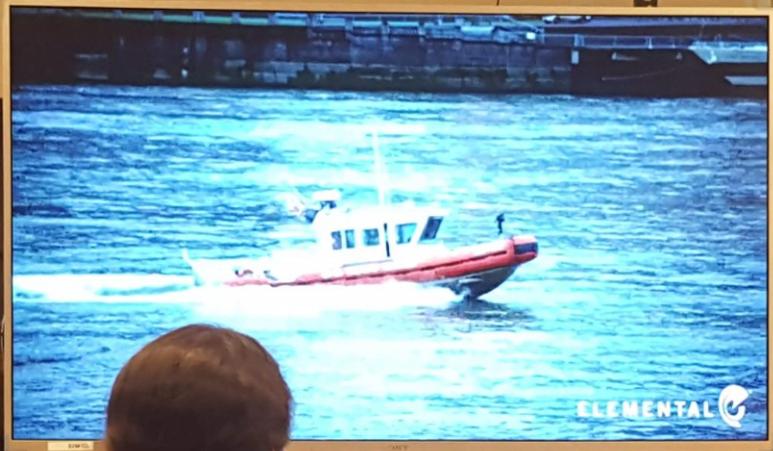
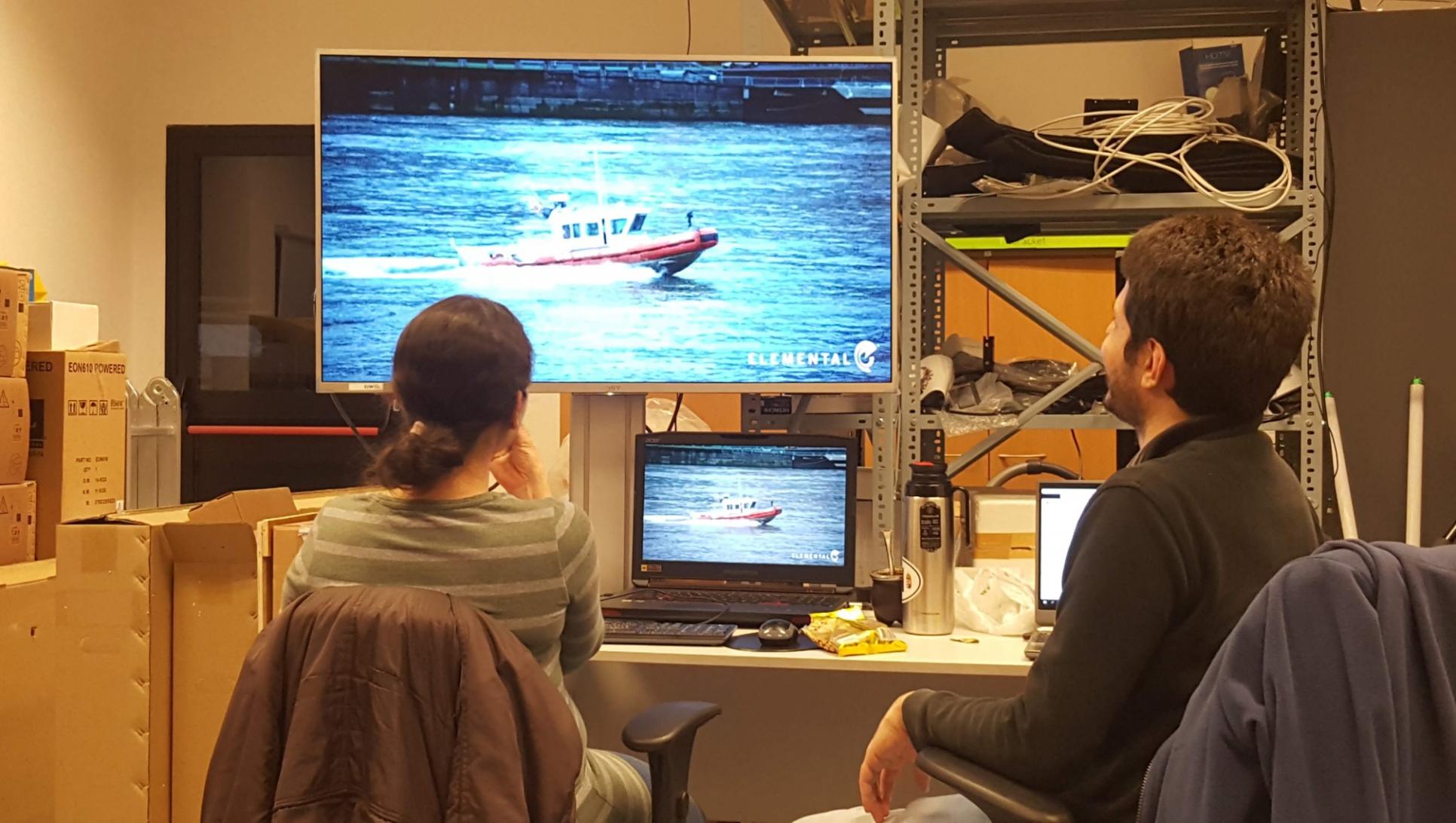


#### 2do premio

A Comparative Study among Approaches based in Fuzzy Systems and Artificial Neural Networks to Estimate Importance of Comments about Products and Services (#ID: 2408)

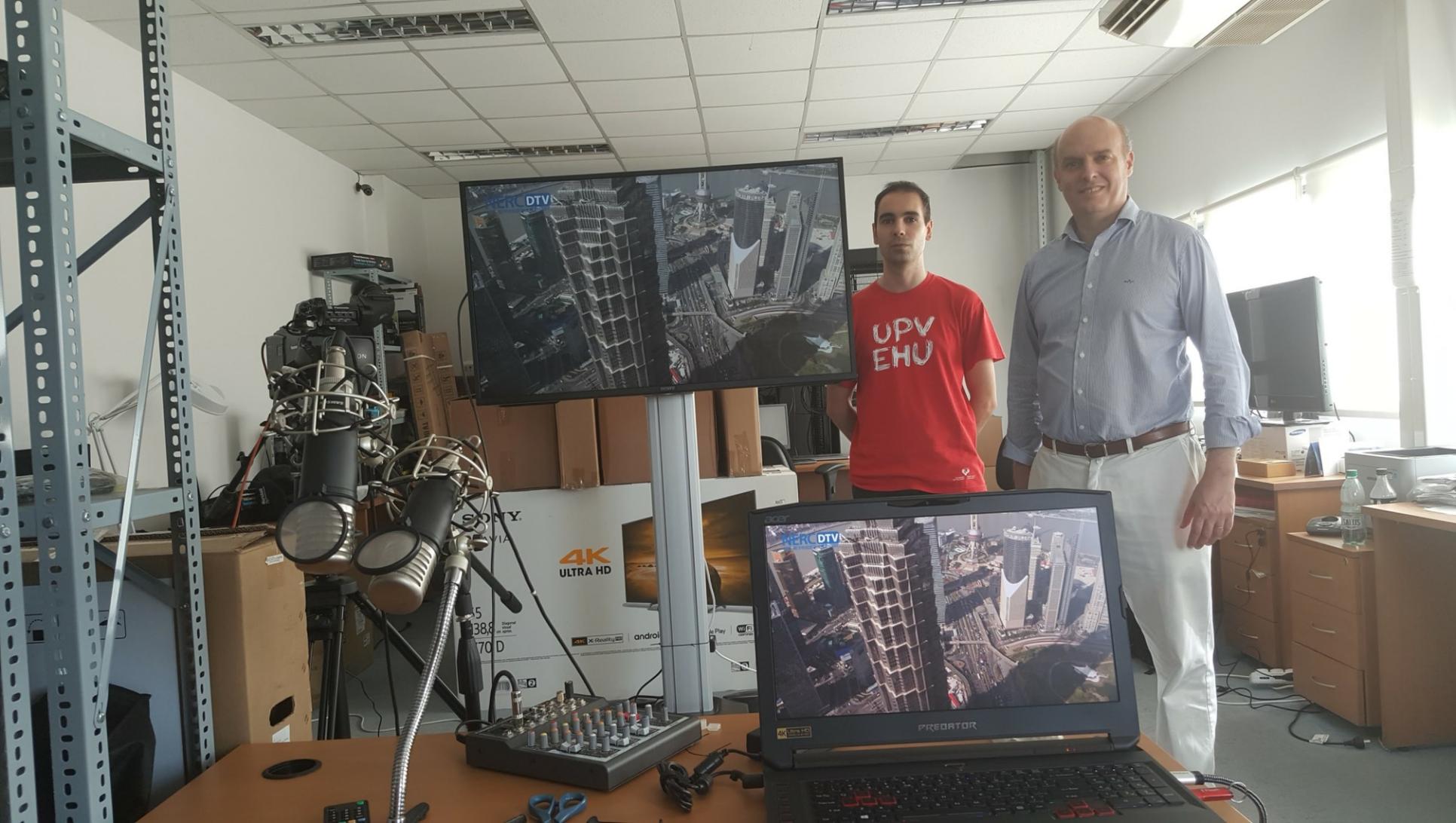
**Ronev Lira de Sales Santos**





RED EON810 POWERED  
PART NO. EON810  
20" x  
5.8" x 14.422  
5.8" x 7.438  
8. PROTECTED













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M  
AÑO XII

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