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Caroline Conti

Professora Associada

Instituto de Telecomunicações - IUL
Department of Information Science and Technology (ISTA)



Contacts

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Curriculum

Caroline Conti was graduated in Electrical Engineering by University of São Paulo, Brazil, in 2010, and received her PhD degree in Information Science and Technology by ISCTE – Instituto Universitário de Lisboa (ISCTE-IUL), in June of 2017. She is currently an Assistant Professor at the Department of Information Science and Technology of ISCTE-IUL, and a Senior Researcher at Instituto de Telecomunicações (IT).

Caroline has been working in the area of light field visual media, making her major contributions to the area of light field content processing, representation, and coding. This was also the subject of her PhD Thesis entitled Efficient Solutions for Light Field Coding. She has more than 10 years of research experience in Portugal and, for this period, she has been participating in many national and international research projects addressing immersive multimedia technologies, where she has actively collaborated with experts from academia and industry in this field. More significantly, she has participated in the European Commission’s project 3D VIVANT (Live Immerse Video-Audio Interactive Multimedia) and has been a research intern at the light field display company Holografika Kft., in Budapest, Hungary. Previous work experience also includes working as a research assistant at IT, and as a lecturer for different courses in Telecommunications and Computer Engineering degrees at ISCTE-IUL. She has also been a member of Organizing Committees of international conferences, more recently, in the 10th European Workshop on Visual Information Processing.

Overall, she has contributed more than 30 publications in high Impact Factor journals and in renowned international conferences. She is also author of four book chapters published by Springer. According to Google Scholar, her published work has had more than 600 citations.

Additionally, she has secured many competitive scholarships, including the FCT Stimulus of Scientific Employment 2017 program, in which she ranked in the first place in the Junior Researcher category with maximum score of 10. She has also been recognized with many awards/distinctions in national and international conferences and competitions. More

significantly, in 2017, she won the 27th edition of the IBM Scientific Prize, which is arguably the most prestigious prize in Computer Science and related fields of Engineering in Portugal.

Academic Qualifications			
University/Institution	Type	Degree	Period
ISCTE - Instituto Universitário de Lisboa	PhD	Ciências e Tecnologias da Informação	2017
Universidade de São Paulo	Licenciante	Engenharia Elétrica (ênfase em eletrônica e computação)	2010

Teaching Activities				
Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2º	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2025/2026	1º	Deep Learning for Computer Vision	Institutional Degree in Escola de Tecnologias e Arquitetura;	No
2025/2026	1º	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering;	No
2024/2025	2º	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2024/2025	1º	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2023/2024	2º	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2023/2024	2º	Development for Internet and Mobile Apps		No
2023/2024	1º	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2022/2023	2º	Algorithms and Data Structures	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No

2022/2023	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2021/2022	2°	Algorithms and Data Structures	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2021/2022	1°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2020/2021	2°	Microprocessors	Bachelor Degree in Computer Engineering (PL);	No
2019/2020	2°	Microprocessors	Bachelor Degree in Computer Engineering;	No
2019/2020	2°	Introduction to Programming		No
2019/2020	1°	Fundamentals of Computer Architecture		No
2018/2019	2°	Algorithms and Data Structures		No
2017/2018	2°	Algorithms and Data Structures		No
2017/2018	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	No
2017/2018	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	No
2015/2016	2°	Microprocessors	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2015/2016	2°	Microprocessors	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2015/2016	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Telecommunications and Computer Engineering;	No
2015/2016	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Telecommunications and Computer Engineering;	No

2014/2015	2°	Microprocessors	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2014/2015	2°	Microprocessors	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2014/2015	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2014/2015	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2013/2014	2°	Advanced Excel		No
2013/2014	2°	Introduction to Word		No
2013/2014	2°	Introduction to Excel		No
2013/2014	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2013/2014	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Ramna Maqsood	Multi-modal detection using deep learning	English	Developing	Iscte
2	Muhammad Zubair	Light Field Coding and Transmission using Deep Learning	English	Developing	Iscte
3	Ramna Maqsood	Multimodality fusion using deep learning	English	Developing	Iscte
4	Muhammad Zubair	Light field coding and transmission using deep learning	English	Developing	Iscte
5	Ricardo Alexandre Firmino de Melo	Design and Evaluation of a Framework for Real-Time Intelligent Video Manipulation 2025	English	Developing	Iscte

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	André Filipe Santos da Silva Costa	Human motion analysis using event streams.	--	Developing	Iscte
2	Pedro De Jesus Pereira Ferraz	Multimodal Scene Depth Estimation using LiDAR and Event Sensors	--	Developing	Iscte
3	Pedro Parente Fonte Santa	Event-Based Gesture Recognition	--	Developing	Iscte
4	Alexandre Cortez Milharado	Event-based Image Reconstruction for High-speed Video Generation	--	Developing	Iscte
5	João Afonso Troncão Fragoso	Super-resolução de conteúdo neuromórfico	--	Developing	Iscte
6	Tiago José Martins Alves	Explainable deepfake detection	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Marta Almeida de Aragão Veiga Coelho	Application for Light Field Inpainting	English	Iscte	2022
2	Ronielson Baptista Lima	Light Field Saliency Detection using Deep Learning: A Comparative Study	English	Iscte	2022

Total Citations

Web of Science®	517
Scopus	618

Publications

• Scientific Journals

- Scientific journal paper

1	Maqsood, R., Nunes, P., Soares, L. D. & Conti, C. (2026). EcDiff-LLIE: Event-conditional diffusion model for structure-preserving low-light image enhancement. IEEE Open Journal of Signal Processing. 7, 266-275
2	Hamad, M., Conti, C., Nunes, P. & Soares, L. D. (2025). Unsupervised angularly consistent 4D light field segmentation using hyperpixels and a graph neural network. IEEE Open Journal of Signal Processing. 6, 333-347 - Times Cited Web of Science®: 2 - Times Cited Google Scholar: 1

3	Hamad, M., Conti, C., Nunes, P. & Soares, L. D. (2023). Hyperpixels: Flexible 4D over-segmentation for dense and sparse light fields. <i>IEEE Transactions on Image Processing</i> . 32, 3790-3805 - Times Cited Web of Science®: 4 - Times Cited Scopus: 4 - Times Cited Google Scholar: 6
4	Hamad, M., Conti, C., Nunes, P. & Soares, L. D. (2023). Efficient propagation method for angularly consistent 4D light field disparity maps. <i>IEEE Access</i> . 11, 63463-63474 - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
5	Hamad, M., Conti, C., Nunes, P. & Soares, L. D. (2021). ALFO: Adaptive light field over-segmentation. <i>IEEE Access</i> . 9, 131147-131165 - Times Cited Web of Science®: 6 - Times Cited Scopus: 7 - Times Cited Google Scholar: 8
6	Conti, C., Soares, L. D. & Nunes, P. (2020). Dense light field coding: a survey. <i>IEEE Access</i> . 8, 49244-49284 - Times Cited Web of Science®: 75 - Times Cited Scopus: 79 - Times Cited Google Scholar: 94
7	Conti, C., Soares, L. D. & Nunes, P. (2018). Light field coding with field of view scalability and exemplar-based inter-layer prediction. <i>IEEE Transactions on Multimedia</i> . 20 (11), 2905-2920 - Times Cited Web of Science®: 28 - Times Cited Scopus: 25 - Times Cited Google Scholar: 29
8	Conti, C., Nunes, P. & Soares, L. D. (2018). Light field image coding with jointly estimated self-similarity bi-prediction. <i>Signal Processing: Image Communication</i> . 60, 144-159 - Times Cited Web of Science®: 24 - Times Cited Scopus: 23 - Times Cited Google Scholar: 30
9	Conti, C., Soares, L. D. & Nunes, P. (2016). HEVC-based 3D holoscopic video coding using self-similarity compensated prediction. <i>Signal Processing: Image Communication</i> . 42, 59-78 - Times Cited Web of Science®: 85 - Times Cited Scopus: 89 - Times Cited Google Scholar: 107
10	Conti, C., Nunes, P. & Soares, L. D. (2013). Inter-layer prediction scheme for scalable 3-D holoscopic video coding. <i>IEEE Signal Processing Letters</i> . 20 (8), 819-822 - Times Cited Web of Science®: 26 - Times Cited Scopus: 35 - Times Cited Google Scholar: 42

- Editorial

1	Conti, C., Gotchev, A., Bregovic, R., Dansereau, D. G., Perra, C. & Fujii, T. (2024). Editorial: Special issue on light field imaging. <i>Signal Processing: Image Communication</i> . 129
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• Books and Book Chapters

- Book chapter

1	Conti, C., Soares, L. D., Nunes, P., Perra, C., Assunção, P. A., Sjöström, M....Jennehag, U. (2019). Light field image compression. In Assunção P., Gotchev A. (Ed.), 3D Visual Content Creation, Coding and Delivery. (pp. 143-176). Cham: Springer. - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
2	Conti, C., Nunes, P. & Soares, L. D. (2019). Impact of packet losses in scalable light field video coding. In Assunção P., Gotchev A. (Ed.), 3D Visual Content Creation, Coding and Delivery. (pp. 177-193). Cham: Springer.
3	Domaski, M., Grajek, T., Conti, C., Debono, C., Faria, S. M. M., Kovács, P....Stankiewicz, O. (2019). Emerging imaging technologies: trends and challenges. In P. A. Assunção, A. Gotchev (Ed.), 3D visual content creation, coding and delivery. (pp. 5-39). Cham: Springer. - Times Cited Scopus: 2 - Times Cited Google Scholar: 5
4	Conti, C., Soares, L. & Nunes, P. (2015). 3D Holoscopic Video Representation and Coding Technology. In Ahmet Kondoç, Tasos Dagiuklas (Ed.), Novel 3D Media Technologies. (pp. 71-96). Nova Iorque, EUA: Springer New York. - Times Cited Google Scholar: 2

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Zubair, M., Nunes, P., Conti, C. & Soares, L. D. (2025). LFVS-Mamba: State-Space Model for Light Field View Synthesis. In 2025 International Conference on Visual Communications and Image Processing (VCIP). (pp. 1-5). Klagenfurt, Austria: IEEE.
2	Ramna Maqsood, Nunes, P., Soares, L. D. & Conti, C. (2025). Efficient Frequency-Aware Multiscale Vision Transformer for Event-to-Video Reconstruction. In 2025 33rd European Signal Processing Conference (EUSIPCO). (pp. 606-610). Palermo, Italy: IEEE.
3	Ramna Maqsood, Nunes, P., Conti, C. & Soares, L. D. (2025). WaveE2VID: Frequency-Aware Event-Based Video Reconstruction. In 2025 IEEE International Conference on Image Processing (ICIP). (pp. 570-575). Anchorage, AK, USA: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
4	Zubair, M., Nunes, P., Conti, C. & Soares, L. D. (2025). Swinscale-LFVS: Parallel Feature Integration for Light Field View Synthesis. In 2025 IEEE International Conference on Image Processing (ICIP). (pp. 1942-1947). Anchorage, AK, USA: IEEE.
5	Zubair, M., Nunes, P., Conti, C. & Soares, L. D. (2024). Light field view synthesis using deformable convolutional neural networks. In 2024 Picture Coding Symposium, PCS 2024, Proceedings. (pp. 1-5). Taichung, Taiwan: IEEE. - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
6	Hamad, M., Conti, C., Nunes, P. & Soares, L. D. (2022). View-consistent 4D Light Field style transfer using neural networks and over-segmentation. In 2022 IEEE 14th Image, Video, and Multidimensional Signal Processing Workshop (IVMSP). Nafplio: IEEE. - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 3

7	<p>Hamad, M., Conti, C., Almeida, A. M. de., Nunes, P. & Soares, L. D. (2021). SLFS: Semi-supervised light-field foreground-background segmentation. In 2021 Telecoms Conference (ConfTELE). Leiria: IEEE.</p> <p>- Times Cited Scopus: 3 - Times Cited Google Scholar: 5</p>
8	<p>Conti, C., Soares, L. D. & Nunes, P. (2018). Scalable light field coding with support for region of interest enhancement. In 2018 26th European Signal Processing Conference (EUSIPCO). (pp. 1855-1859). Roma: IEEE.</p> <p>- Times Cited Web of Science®: 5 - Times Cited Scopus: 5 - Times Cited Google Scholar: 6</p>
9	<p>Conti, C., Nunes, P. & Ducla Soares, L. (2017). Weighted bi-prediction for light field image coding. In Tescher A.G. (Ed.), Applications of Digital Image Processing XL 2017. San Diego: SPIE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 1</p>
10	<p>Conti, C., Nunes, P. & Soares, L. D. (2016). HEVC-based light field image coding with bi-predicted self-similarity compensation. In 2016 IEEE International Conference on Multimedia & Expo Workshops (ICMEW). Seattle, WA, USA: IEEE.</p> <p>- Times Cited Web of Science®: 59 - Times Cited Scopus: 82 - Times Cited Google Scholar: 105</p>
11	<p>Monteiro, R., Lucas, L., Conti, C., Nunes, P., Rodrigues, N., Faria, S....Soares, L. (2016). Light field HEVC-based image coding using locally linear embedding and self-similarity compensated prediction. In 2016 IEEE International Conference on Multimedia and Expo Workshops (ICMEW). Seattle, WA, USA : IEEE.</p> <p>- Times Cited Web of Science®: 79 - Times Cited Scopus: 75 - Times Cited Google Scholar: 106</p>
12	<p>Conti, C., Soares, L. D. & Nunes, P. (2016). Improved inter-layer prediction for Light field content coding with display scalability. In Tescher A. G. (Ed.), Proceedings of SPIE Optical Engineering + Applications - Applications of Digital Image Processing XXXIX. San Diego: SPIE.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Google Scholar: 3</p>
13	<p>Ricardo Monteiro, Conti, C., Nunes, P., N. Rodrigues, S. M. M. Faria & Soares, L. (2015). HEVC Compatible 3D Holoscopic Image Coding using Multiple Partitions. In Conference on Telecommunications (ConfTele). (pp. 1-4). Aveiro</p>
14	<p>Conti, C., Nunes, P. & Soares, L. D. (2014). Impact of packet losses in scalable 3D holoscopic video coding. In Schelkens, P., Ebrahimi, T., Cristóbal, G., Truchetet, F., and Saarikko, P. (Ed.), SPIE Photonics Europe - Optics, Photonics, and Digital Technologies for Multimedia Applications III. Bruxelas: Society of Photo-Optical Instrumentation Engineers.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 3</p>
15	<p>Conti, C., Lucas, L., Nunes, P., Soares, L., Rodrigues, N., Pagliari, C....Faria, S. (2014). Locally linear embedding-based prediction for 3D holoscopic image coding using HEVC. In Proceedings of the 22nd European Signal Processing Conference (EUSIPCO). Lisbon: IEEE.</p> <p>- Times Cited Web of Science®: 53 - Times Cited Scopus: 49 - Times Cited Google Scholar: 64</p>

16	<p>Conti, C., Kovács, P., Balogh, T., Nunes, P. & Soares, L. (2014). Light-field video coding using geometry-based disparity compensation. In 3DTV-Conference: The true vision: capture, transmission and display of 3D video (3DTV-CON) , Proceedings. (pp. 1-4). Budapest: IEEE.</p> <p>- Times Cited Scopus: 14 - Times Cited Google Scholar: 28</p>
17	<p>Conti, C., Nunes, P. & Soares, L. (2013). 3D Holoscopic Video Coding Based on HEVC with Improved Spatial and Temporal Prediction. In Conference on Telecommunications (ConfTele). (pp. 1-4). Castelo Branco</p> <p>- Times Cited Google Scholar: 3</p>
18	<p>A. Aggoun, O. Fatah, J. Fernández, Conti, C., Nunes, P. & Soares, L. (2013). Acquisition, processing and coding of 3D holoscopic content for immersive video systems. In 3DTV-Conference (3DTV-CON). (pp. 1-4). Aberdeen: IEEE.</p> <p>- Times Cited Scopus: 13 - Times Cited Google Scholar: 19</p>
19	<p>Conti, C., Nunes, P. & Soares, L. (2013). Using self-similarity compensation for improving inter-layer prediction in scalable 3D holoscopic video coding. In SPIE Optics and Photonics - Applications of Digital Image Processing XXXVI. (pp. 1-13). San Diego, California, EUA: SPIE.</p> <p>- Times Cited Web of Science®: 2 - Times Cited Scopus: 6 - Times Cited Google Scholar: 9</p>
20	<p>Conti, C., Lino, J., Nunes, P. & Soares, L. D. (2012). Spatial and temporal prediction scheme for 3D holoscopic video coding based on H.264/AVC. In 2012 19th International Packet Video Workshop (PV). (pp. 143-148). Munich-Garching: IEEE.</p> <p>- Times Cited Scopus: 6 - Times Cited Google Scholar: 13</p>
21	<p>Conti, C., Nunes, P. & Soares, L. (2012). New HEVC Prediction Modes for 3D Holoscopic Video Coding. In IEEE (Ed.), IEEE International Conference on Image Processing (ICIP). (pp. 1325-1328). Orlando: IEEE.</p> <p>- Times Cited Web of Science®: 38 - Times Cited Scopus: 45 - Times Cited Google Scholar: 63</p>
22	<p>Conti, C., Soares, L. & Nunes, P. (2012). Influence of Self-Similarity on 3D Holoscopic Video Coding Performance. In Brazilian Symposium on Multimedia and the Web (WebMedia). (pp. 131-134). São Paulo: ACM.</p> <p>- Times Cited Scopus: 10 - Times Cited Google Scholar: 13</p>
23	<p>Conti, C., J. Lino, P. Nunes, L. D. Soares & P. L. Correia (2011). Improved Spatial Prediction for 3D Holoscopic Image and Video Coding. In EURASIP (Ed.), European Signal Processing Conference (EUSIPCO). (pp. 378-382). Barcelona: EURASIP.</p> <p>- Times Cited Web of Science®: 8 - Times Cited Scopus: 8 - Times Cited Google Scholar: 13</p>
24	<p>Conti, C., Lino, J., Nunes, P., Soares, L. D. & Correia, P. L. (2011). Spatial prediction based on self-similarity compensation for 3D holoscopic image and video coding. In IEEE (Ed.), 18th IEEE International Conference on Image Processing. (pp. 961-964). Brussels: IEEE.</p> <p>- Times Cited Web of Science®: 19 - Times Cited Scopus: 23 - Times Cited Google Scholar: 34</p>

1	Zubair, M., Nunes, P., Conti, C. & Soares, L. D. (2025). LFVS-Mamba: State-Space Model for Light Field View Synthesis. 2025 International Conference on Visual Communications and Image Processing (VCIP).
2	Ramna Maqsood, Nunes, P., Soares, L. D. & Conti, C. (2025). Efficient Frequency-Aware Multiscale Vision Transformer for Event-to-Video Reconstruction. 2025 33rd European Signal Processing Conference (EUSIPCO).
3	Ramna Maqsood, Nunes, P., Conti, C. & Soares, L. D. (2025). WaveE2VID: Frequency-Aware Event-Based Video Reconstruction. 2025 IEEE International Conference on Image Processing (ICIP).
4	Zubair, M., Nunes, P., Conti, C. & Soares, L. D. (2025). Swinscale-LFVS: Parallel Feature Integration for Light Field View Synthesis. 2025 IEEE International Conference on Image Processing (ICIP).
5	Zubair, M., Nunes, P., Conti, C. & Soares, L. D. (2024). Light Field View Synthesis Using Deformable Convolutional Neural Networks. 2024 Picture Coding Symposium (PCS).
6	Hamad, M., Conti, C., Nunes, P. & Soares, L. D. (2022). View-consistent 4D Light Field Style Transfer using Neural Networks and Over-segmentation. 2022 IEEE 14th Image, Video, and Multidimensional Signal Processing Workshop (IVMSP).
7	Hamad, M., Conti, C., de Almeida, A., Nunes, P. & Soares, L. D. (2021). SLFS: Semi-supervised Light-field Foreground-background Segmentation. 2021 Telecoms Conference (ConfTELE).
8	Conti, C. (2021). Light Field Processing: Challenges and Solutions. IEEE Seasonal School on Digital Processing of Visual Signals and Applications (DPVSA).
9	Conti, C., Soares, L. D. & Nunes, P. (2018). Scalable Light Field Coding with Support for Region of Interest Enhancement. European Signal Processing Conference (EUSIPCO).
10	Conti, C., Nunes, P. & Soares, L. D. (2017). Weighted bi-prediction for light field image coding. Applications of Digital Image Processing XL.
11	Ricardo Monteiro, L. Lucas, Conti, C., Nunes, P., N. Rodrigues, S. M. M. Faria...Soares, L. (2016). Light Field HEVC-Based Image Coding using Locally Linear Embedding and Self-Similarity Compensated Prediction. IEEE International Conference on Multimedia and Expo Workshops - ICMEW. 1-4
12	Conti, C., Nunes, P. & Soares, L. (2016). HEVC-Based Light Field Image Coding with Bi-Predicted Self-Similarity Compensation. IEEE International Conference on Multimedia and Expo Workshops - ICMEW. 1-4
13	Conti, C., Soares, L. & Nunes, P. (2016). Improved inter-layer prediction for light field content coding with display scalability. SPIE Optics and Photonics - Applications of Digital Image Processing XXXIX. 9971 - Times Cited Web of Science®: 1 - Times Cited Scopus: 3
14	Ricardo Monteiro, Conti, C., Nunes, P., N. Rodrigues, S. M. M. Faria & Soares, L. (2015). HEVC Compatible 3D Holoscopic Image Coding using Multiple Partitions. Conference on Telecommunications (ConfTele). 1-4
15	Conti, C., P. Kovács, T. Balogh, Nunes, P. & Soares, L. (2014). Light-Field Video Coding Using Geometry-Based Disparity Compensation. 3DTV-Conference (3DTV-CON). 1, 1-4
16	Conti, C., L. Lucas, Nunes, P., Soares, L., N. Rodrigues, C. L. Pagliari...S. M. M. Faria (2014). Locally Linear Embedding-Based Prediction for 3D Holoscopic Image Coding Using HEVC. European Signal Processing Conference (EUSIPCO). 1, 1-5

17	Conti, C., Nunes, P. & Soares, L. (2014). Impact of packet losses in scalable 3D holoscopic video coding. SPIE Photonics Europe - Optics, Photonics, and Digital Technologies for Multimedia Applications III. 9138, 91380E-91380E-15
18	A. Aggoun, O. Fatah, J. Fernández, Conti, C., Nunes, P. & Soares, L. (2013). Acquisition, processing and coding of 3D holoscopic content for immersive video systems. 3DTV-Conference (3DTV-CON). 1-4
19	Conti, C., Nunes, P. & Soares, L. (2013). Using self-similarity compensation for improving inter-layer prediction in scalable 3D holoscopic video coding. SPIE Optics and Photonics - Conference on Applications of Digital Image Processing XXXVI. 8856, 88561K-88561K-13
20	Conti, C., Nunes, P. & Soares, L. (2013). 3D Holoscopic Video Coding Based on HEVC with Improved Spatial and Temporal Prediction. Conference on Telecommunications (ConfTele). 1-4
21	Conti, C., Soares, L. & Nunes, P. (2012). Influence of self-similarity on 3D holoscopic video coding performance. Brazilian symposium on Multimedia and the web (WebMedia). 131-134
22	Conti, C., Nunes, P. & Soares, L. (2012). New HEVC prediction modes for 3D holoscopic video coding. IEEE International Conference on Image Processing (ICIP). 1325-1328
23	Conti, C., J. Lino, Nunes, P. & Soares, L. (2012). Spatial and temporal prediction scheme for 3D holoscopic video coding based on H.264/AVC. 19th International Packet Video Workshop (PV). 143-148
24	Conti, C., J. Lino, Nunes, P., Soares, L. & P. L. Correia (2011). Spatial Prediction Based on Self-Similarity Compensation for 3D Holoscopic Image and Video Coding. 18th IEEE International Conference on Image Processing (ICIP). 961-964

• Other Publications

- Non-peer-reviewed papers

1	Conti, C., Nunes, P. & Soares, L. (2014). Display Scalable 3D Holoscopic Video Coding. IEEE COMSOC MMTC E-Letter. 9 (3), 12-15 - Times Cited Google Scholar: 1
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Research Projects

Project Title	Role in Project	Partners	Period
Light Field Processing for Immersive Media Streaming Applications	Local Coordinator	IT-Iscte, IT - Leader (Portugal)	2021 - 2024
Light Field Processing and Encoding System	Researcher	IT-Iscte (MSP-IUL)	2016 - 2018
Scalable Error Resilient 3D Holoscopic Video Coding for Immersive Systems	Researcher	IT-Iscte	2014 - 2016

Academic Management Positions

Membro (2025 - 2028)
Unit/Area: Comissão Científica

Coordenador do 1º Ano (2025 - 2027)
Unit/Area: Master Degree in Computer Engineering

Coordenador do 2º Ano (2025 - 2027)
Unit/Area: Master Degree in Computer Engineering

Director (2025 - 2027)
Unit/Area: Master Degree in Computer Engineering

Coordenador do 3º Ano (2024 - 2025)
Unit/Area: Bachelor Degree in Computer Engineering (PL)

Coordenador do 3º Ano (2024 - 2025)
Unit/Area: Bachelor Degree in Computer Engineering

Awards

IBM Scientific Prize (2017)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event's organizing committee	IEEE SPS Distinguished Lecture - Prof. Farhan Baqai (Apple, USA)	Portuguese Chapter of IEEE Signal Processing Society / PhD Program in Information Science and Technology of Iscte	Since 2024
Member of scientific event's organizing committee	10th European Workshop on Visual Information Processing (EUVIP)	IEEE Signal Processing Society	2022

Diffusion Activities

Activity Type	Event Title	Activity Description	Year
Member of organizing committee of knowledge diffusion event	10th European Workshop on Visual Information Processing (EUVIP)	Organizing Committee	2022

Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
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Member of scientific journal editing staff	IEEE Transactions on Image Processing	1941-0042	2023 - 2026	Portuguese
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