

Curriculum Vitae

Marco CAGNAZZO

Curriculum Vitae

General information

Birth: April 23rd 1977, Naples (Italy)
Nationality: Italian



Affiliation and contacts

Current position: *Professeur* (Full Professor)
Head of the Multimedia research group
Institution: *Telecom-Paris¹*, Institut Polytechnique de Paris, France
Department: Images, Data, Signals (IDS)
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Professional experience

Dec. 2018-Present **Professeur** (full professor) at Telecom-Paris
Dec. 2015-Present **Responsible of the Multimedia group** (6 permanent staff, 10 non-permanent staff), Telecom-Paris
Feb. 2008-Nov. 2018 **Maître de conférences** (Associate professor) at Telecom-Paris
Nov. 2006-Jan. 2008 **Postdoctoral fellowship** at I3S Lab, Sophia Antipolis, France
Jun. 2005- Oct. 2006 **Postdoctoral fellowships** at *Centro Regionale Competenze ICT* (Benevento, Italy) and at CNIT's National Multimedia Lab of Naples (Italy)

Degrees

September 2013 *Habilitation à Diriger des Recherches* (habilitation to direct research) from University Pierre et Marie Curie (Paris).
March 2005 PhD degree: *Docteur en sciences de l'Université de Nice-Sophia Antipolis* and *Dottore di ricerca* (University *Federico II*, Naples).
January 2002 MSc Telecommunication Engineering, University *Federico II*, Naples

Publications

- 34 articles on international peer-reviewed journals
- 92 articles in national and international conferences
- 1 book (co-editor) and 10 book chapters
- 8 contributions to MPEG normalizations
- 6 patents (obtained or pending)

Bibliometric data on February 10th 2020: total number of citations: **1574**; H-index: **22**; i-10 index: **53**.

Source Google Scholar: <https://scholar.google.com/citations?user=qq8xX6AAAAAJ>

Scopus bibliometric data: Number of citations: 850; h-index: 16 <https://www.scopus.com/authid/detail.uri?authorId=6602470165>

Research areas

- Video coding: 3D, multi-view and super-multiview
- Scalable, distributed, multiple description video coding

¹ Please note that *Telecom-Paris* is the new name of *Telecom-ParisTech* since June 2019.

- Adaptive streaming, video delivery
- Source/channel coding, hybrid video transmission, network coding
- Compression of remote sensing images
- Digital hologram compression
- Image and video compression using machine and deep learning

Awards: Two *Top10% paper awards* at IEEE MMSP'09 [C25, C26]; High quality paper of IEEE ComSoc MMTC (2012) [J11]; *Best paper award* IC3D'15 (Lumière Award of the Advanced Imaging Society) [C71]; Best student paper award at SPIE Photonics Europe 2018 [C80]. *Best paper award IEEE/Eurasip EUVIP'19* [C91].

Grants

2009: ANR Blanc PERSEE Project (190k€), Carnot and *Futur et Ruptures* Phd grants (2 x 100 k€)
 2011: *Digitéo* Project SWAN, *Futur et Ruptures* PhD grant (100 k€)
 2012: *Futur et Ruptures* Post-doc (55 k€), Carnot PhD grant (105 k€)
 2013: Industrial PhD Grant (Orange), (30 k€)
 2014: Industrial project Sentinel2 (Airbus) (105k€)
 2015: *Digitéo-Digicosme* PhD grant (109 k€)
 2016: Sentinel2 – phase II (55 k€) and Industrial PhD Grant Zodiac (48 k€)
 2017: Industrial PhD Grant Orange (30 k€)
 2018: Project QoE-IV (*Dép. STIC Paris-Saclay*), Project VCode (*Digicosme*), Industrial PhD Grant (ATEME) 44k€
 2019: Industrial PhD Grant Orange (30 k€), Industrial PhD Grant DxoMark (48 k€)

PhD advisorship

10 PhD (completed) directed or co-directed. Further 8 on-going PhD currently directed or co-directed (4 to finish by spring 2020).

Responsibilities

Responsible of the Multimedia research group since December 2015.

Councils and collegial organisms:

Member of the Laboratory council, January 2017 – present
 Member of the Department council, December 2015 – present
 Member of the Telecom-Paris Teaching council (2014-2016)

Teaching responsibilities:

Responsible of the Multimedia option and responsible of the student internships within the TSIA (Signal processing for artificial intelligence) MSc track
 Responsible for Telecom-Paris of the Multimedia networking Master (co-operated with University Paris-Saclay)
 Responsible of the SAMVA (System, Audio, Multimedia, Video) MSc track (2014-2015)
 Responsible of 10+ courses at Telecom-Paris

Scientific societies:

IEEE senior member ('11), IEEE SPS member
 Member of the IEEE IVMSP Technical committee
 Member of the Board of the GRETSI (Research group on Signal Processing)

Editorial and reviewing activity:

Associate editor of IEEE Open Journal on Circuits and Systems for Video Technology (2019-present)
 Associate editor of IEEE Transactions on Circuits and Systems for Video Technology (2017-2019)
 Associate editor of Elsevier Signal Processing: Image Communication (2010-present)
 Associate editor of IEEE Signal Processing Letters (2016-2018)
 Associate editor of Elsevier Signal Processing (2010-2017)
 Area chair for IEEE ICASSP, IEEE ICIP

Reviewer for the top journals and conferences of the domain

Other: Award chair for IEEE ICIP'14, Publicity chair for EUSIPCO'12, Electronic Media Chair for IEEE MMSP'10

Teaching

More than 2200 hours of teaching experience. Teaching activities in: Signal Theory, Random processes, Time Series, Advanced Signal Processing, Multimedia signal processing, Image & Video compression, Information Theory, Image processing. Eight years of experience in problem-based and project-based teaching practices.

Publications

Books

[B01] F. Dufaux, B. Pesquet-Popescu, M Cagnazzo (eds.): *Emerging Technologies for 3D Video*. Wiley, May 2013

Book chapters

[Ch01] E. G. Mora, G. Valenzise, J. Jung, B. Pesquet-Popescu, M. Cagnazzo, F. Dufaux. "Depth Video Coding Technologies". In *Emerging Technologies for 3D Video*, Ch. 5. Wiley, May 2013

[Ch02] M. Cagnazzo, B. Pesquet-Popescu, F. Dufaux. "3D Video Representation and Formats". In *Emerging Technologies for 3D Video*, Ch. 6. Wiley, May 2013

[Ch03] M. Kaaniche, R. Gaetano, M. Cagnazzo, B. Pesquet-Popescu "Disparity estimation techniques". In *Emerging Technologies for 3D Video*, Ch. 7. Wiley, May 2013

[Ch04] B. Battin, Ph. Vautrot, M. Cagnazzo, F. Dufaux. "Codage vidéo multi-vues". In *Vidéo 3D : Capture, traitement et diffusion*, ch. 10. Hermès, Sept. 2013

[Ch05] E. Mora, J. Jung, M. Cagnazzo, B. Pesquet-Popescu. "Méthodes de codage de vidéos de profondeur". In *Vidéo 3D : Capture, traitement et diffusion*, ch. 12. Hermès Sept. 2013

[Ch06] B. Battin, Ph. Vautrot, M. Cagnazzo, F. Dufaux. "Multiview video coding". In *3D Video: Acquisition, processing and transmission*, ch. 10. Hermès Sept. 2013

[Ch07] E. Mora, J. Jung, M. Cagnazzo, B. Pesquet-Popescu. "Coding Methods for Depth Videos". In *3D Video: Acquisition, processing and transmission*, Ch. 12. Hermès Sept. 2013

[Ch08] C. Greco, I. D. Nemoianu, M. Cagnazzo, J. Lefevre, F. Dufaux, B. Pesquet-Popescu. "Multimedia Streaming". Academic Press Library in signal Processing. Elsevier E-Reference, 2014

[Ch09] B. Pesquet-Popescu, M. Cagnazzo, F. Dufaux. "Motion Estimation - A Video Coding Viewpoint". Academic Press Library in signal Processing. Elsevier E-Reference, 2014

[Ch10] A. Dricot, J. Jung, M. Cagnazzo, B. Pesquet-Popescu & F. Dufaux. "Full Parallax 3D Video Content Compression". In *Novel 3D Media Technologies*, Springer New York, 2015, pp. 49-70.

Journal papers

[J01] M. Cagnazzo, F. Delfino, L. Voller, and A. Zinicola, "Trading off quality and complexity for a low-cost video codec on portable devices," Elsevier J. Vis. Comm. and Image Repres., vol. 17, pp. 564–572, June 2006.

[J02] M. Cagnazzo, L. Cicala, G. Poggi, and L. Verdoliva, "Low-complexity compression of multispectral images based on classified transform coding," Signal Proc.: Image Comm. (Elsevier Science), vol. 21, pp. 850–861, Nov. 2006.

[J03] M. Cagnazzo, S. Parrilli, G. Poggi, and L. Verdoliva, "Costs and advantages of object-based image coding with shape-adaptive wavelet transform," EURASIP J. Image Video Proc., vol. 2007, pp. Article ID 78323, 13 pages, 2007.

[J04] T. André, M. Cagnazzo, M. Antonini, and M. Barlaud, "JPEG2000-compatible scalable scheme for wavelet-based video coding," EURASIP J. Image Video Proc., vol. 2007, pp. Article ID 30852, 11 pages, 2007. doi:10.1155/2007/30852.

[J05] M. Cagnazzo, F. Castaldo, T. André, M. Antonini, and M. Barlaud, "Optimal motion estimation for wavelet video coding," IEEE Trans. Circuits Syst. Video Technol., vol. 17, pp. 907–911, July 2007.

[J06] M. Cagnazzo, S. Parrilli, G. Poggi, and L. Verdoliva, "Improved class-based coding of multispectral images with shape-adaptive wavelet transform," IEEE Geoscience and Remote Sensing Letters, vol. 4, pp. 566–570, Oct. 2007.

[J07] M. Cagnazzo, G. Poggi, and L. Verdoliva, "Region-based transform coding of multispectral images," IEEE Transactions on Image Processing, vol. 16, pp. 2916–2926, Dec. 2007.

[J08] M. Cagnazzo, M. Antonini, and M. Barlaud, "Mutual information-based context quantization," Signal Proc.: Image Comm. (Elsevier Science), pp. 64–74, Jan. 2010.

[J09] C. Greco and M. Cagnazzo, "A cross-layer protocol for cooperative content discovery over mobile ad-hoc networks," International Journal of Communication Networks and Distributed Systems, vol. 6, July 2011.

[J10] M. Agostini, M. Cagnazzo, M. Antonini, G. Laroche, and J. Jung, "A new coding mode for hybrid video coders based on quantized motion vectors," IEEE Transactions on Circuits and Systems for Video Technology, vol. 21, pp. 946–956, July 2011.

- [J11] C. Greco, M. Cagnazzo, and B. Pesquet-Popescu, "Low-latency video streaming with congestion control in mobile ad-hoc networks," *IEEE Transactions on Multimedia*, vol. 14, n. 4, pp. 1337-1350, Aug. 2012. **Selected as "High quality paper" for *IEEE MMTC-R Letter*, vol. 4, n.1, Jan. 2013.**
- [J12] A. Abou-El Ailah, F. Dufaux, J. Farah, M. Cagnazzo, and B. Pesquet-Popescu, "Fusion of global and local motion estimation for distributed video coding," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 23, n. 1, pp. 158-172, Jan. 2013.
- [J13] G. Petrazzuoli, M. Cagnazzo, B. Pesquet-Popescu, F. Dufaux. "Enabling Immersive Visual Communications through Distributed Video Coding". *IEEE MMTC E-Letter* vol. 8, no. 3, pp. 17-19, May 2013.
- [J14] G. Petrazzuoli, M. Cagnazzo, and B. Pesquet-Popescu, "Novel solutions for side information generation and fusion in multiview distributed video coding," In *EURASIP Journal of Adv. on Signal Processing*, vol. 2013, no. 154, pp. 17, Oct. 2013.
- [J15] C. Greco, I. Nemoianu, M. Cagnazzo, B. Pesquet-Popescu. "Network Coding for Advanced Video Streaming over Wireless Networks". In *IEEE COMSOC MMTC E-Letter*, vol. 8, no. 6, pp. 34-37, Nov. 2013.
- [J16] T. Maugey, J. Gauthier, M. Cagnazzo, B. Pesquet-Popescu. "Evaluation of side information effectiveness in distributed video coding". In *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 23, no. 12, pp. 2116-2126, Dec. 2013.
- [J17] E. Mora, J. Jung, M. Cagnazzo, B. Pesquet-Popescu. "Depth Video Coding Based on Intra Mode Inheritance From Texture". In *APSIPA Transactions on Signal and Information Processing*, vol. 3, pp. 1-11, Jan. 2014.
- [J18] E. Mora, J. Jung, M. Cagnazzo, B. Pesquet-Popescu. "Initialization, limitation and predictive coding of the depth and texture quadtree in 3D-HEVC Video Coding". In *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 24, no. 9, pp. 1554-1565, Sept. 2014.
- [J19] C. Greco, I. Nemoianu, M. Cagnazzo, B. Pesquet-Popescu. "On a Hashing-Based Enhancement of Source Separation Algorithms over Finite Fields with Network Coding Perspectives". In *IEEE Transactions on Multimedia*, vol. 16, no. 7, pp. 2011 - 2024, Novembre 2014.
- [J20] G. Petrazzuoli, T. Maugey, M. Cagnazzo, B. Pesquet-Popescu. "Depth-based multiview distributed video coding". In *IEEE Transactions on Multimedia*, vol. 16, no. 7, pp. 1834 - 1848, Novembre 2014.
- [J21] M. Calemme, M. Cagnazzo, B. Pesquet-Popescu. "Lossless contour coding using elastic curves in multiview video plus depth". In *APSIPA Transactions on Signal and Information Processing*, vol. 2014, Décembre 2014.
- [J22] M. Meddeb, M. Cagnazzo, B. Pesquet-Popescu. "Region-of-Interest Based Rate Control Scheme for High Efficiency Video Coding". In *APSIPA Transactions on Signal and Information Processing*, vol. 2014, Décembre 2014.
- [J23] A. Abou-El Ailah, F. Dufaux, J. Farah, M. Cagnazzo, B. Pesquet-Popescu, A. Srivastava. "Fusion of global and local motion estimation using foreground objects for Distributed Video Coding". In *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 25, no. 6, pp. 973 - 987, June 2015.
- [J24] A. Dricot, J. Jung, M. Cagnazzo, F. Dufaux, B. Pesquet-Popescu. "Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays". In *Elsevier Signal Processing: Image Communication*, vol. 35, pp. 15, July 2015.
- [J25] C. Greco, I. Nemoianu, M. Cagnazzo, B. Pesquet-Popescu. "Rate-Distortion Optimized Multi-View Streaming in Wireless Environment using Network Coding". In *EURASIP Journal of Advances on Signal Processing*, vol. 2016, no. 1, pp. 10, January 2016.
- [J26] A. Purica, E. Mora, M. Cagnazzo, B. Ionescu, B. Pesquet-Popescu. "Multiview plus depth video coding with temporal prediction view synthesis". In *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 26, no. 2, pp. 360 - 374, February 2016
- [J27] E. Mora, M. Cagnazzo, F. Dufaux. "AVC to HEVC transcoder based on quadtree limitation". In *Springer Multimedia Tools and Applications*, vol. 76, no. 1, April 2016.
- [J28] T. Maugey, G. Petrazzuoli, P. Frossard, M. Cagnazzo, B. Pesquet-Popescu. "Reference view selection in DIBR-based multiview coding". In *IEEE Transactions on Image Processing*, vol. 21, no. 4, pp. 1808-1819, April 2016.
- [J29] A. Fiengo, G. Chierchia, M. Cagnazzo, B. Pesquet-Popescu. "Rate Allocation in predictive video coding using a Convex Optimization Framework". In *IEEE Transactions on Image Processing*, vol. 26, no. 1, pp. 479-489, Janvier 2017
- [J30] A. El Rhammad, A. Gilles, P. Gioia, M. Cagnazzo, B. Pesquet-Popescu. "Color digital hologram compression based on matching pursuit". In *Applied Optics*, vol. 57, no. 17, pp. 4930-4942, May 2018.
- [J31] I. Mitrica, A. Fiandrotti, M. Cagnazzo, B. Pesquet-Popescu, E. Mercier, C. Ruellan. "Very Low Bitrate Semantic Compression of Airplane Cockpit Screen Content". In *IEEE Transactions on Multimedia*, vol. 21, no. 9, Sept. 2019
- [J32] S. Zheng, M. Cagnazzo, M. Kieffer. "Channel Impulsive Noise Mitigation for Linear Video Coding Schemes". In *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 29, no. 9, pp. 1-11, Sept 2019.

[J33] S. Zheng, M. Cagnazzo, M. Kieffer. "Optimal and Suboptimal Channel Precoding and Decoding Matrices for Linear Video Coding". In Elsevier Signal Processing: Image Communication, Vol. 78, October 2019, Pages 135-151

[J34] A. El Rhammad, P. Gioia, A. Gilles, M. Cagnazzo. "Progressive hologram transmission using a view-dependent scalable compression scheme". To appear in Springer Annals of Telecommunications.

Peer-reviewed conference papers

[C01] M. Cagnazzo, A. Caputo, G. Poggi, and L. Verdoliva, "Codifica video scalabile a bassa complessità," in Proc. Of Didamatica, (Napoli, Italy), pp. 289–296, Feb. 2002.

[C02] M. Cagnazzo, G. Poggi, and L. Verdoliva, "The advantage of segmentation in SAR image compression," in Proceed. of IEEE Intern. Geosc. Rem. Sens. Symp., vol. 6, (Toronto, Canada), pp. 3320–3322, June 2002.

[C03] M. Cagnazzo, G. Poggi, and L. Verdoliva, "Low-complexity scalable video coding through table lookup VQ and index coding," in Proc. of Joint Intern. Workshop on Interactive Distributed Multimedia Systems / Protocols for Multimedia Systems, (Coimbra, Portugal), pp. 166–175, Nov. 2002.

[C04] V. Valéentin, M. Cagnazzo, M. Antonini, and M. Barlaud, "Scalable context-based motion vector coding for video compression," in Proceed. of Pict. Cod. Symp., (Saint-Malo, France), pp. 63–68, Apr. 2003.

[C05] M. Cagnazzo, V. Valentin, M. Antonini, and M. Barlaud, "Motion vector estimation and encoding for motion compensated DWT," in Proc. Intern. Workshop on Very Low Bitrate Video Coding, (Madrid, Spain), pp. 233–242, Sept. 2003.

[C06] T. André, M. Cagnazzo, M. Antonini, M. Barlaud, N. Bozinovic, and J. Konrad, "(N,0) motion-compensated lifting-based wavelet transform," in IEEE Intern. Conf. Acoust., Speech and Signal Proc., (Montreal, Canada), pp. 121–124, May 2004.

[C07] M. Cagnazzo, G. Poggi, G. Scarpa, and L. Verdoliva, "Compression of multitemporal remote sensing images through Bayesian segmentation," in Proceed. of IEEE Intern. Geosc. Rem. Sens. Symp., vol. 1, (Anchorage, AL), pp. 281–284, Sept. 2004.

[C08] M. Cagnazzo, T. André, M. Antonini, and M. Barlaud, "A smoothly scalable and fully JPEG2000-compatible video coder," in Proceed. of IEEE Worksh. Multim. Sign. Proc., (Siena, Italy), pp. 91–94, Sept. 2004.

[C09] M. Cagnazzo, T. André, M. Antonini, and M. Barlaud, "A model-based motion compensated video coder with JPEG2000 compatibility," in Proceed. of IEEE Intern. Conf. Image Proc., vol. 4, (Singapore), pp. 2255–2258, Oct. 2004.

[C10] M. Cagnazzo, G. Poggi, L. Verdoliva, and A. Zinicola, "Region-oriented compression of multispectral images by shape-adaptive wavelet transform and SPIHT," in Proceed. of IEEE Intern. Conf. Image Proc., vol. 4, (Singapore), pp. 2459–2462, Oct. 2004.

[C11] M. Cagnazzo, L. Cicala, G. Poggi, and L. Verdoliva, "An unsupervised segmentation-based coder for multispectral images," in Proceed. of Europ. Sign. Proc. Conf., (Antalya, Turkey), Sept. 2005.

[C12] M. Cagnazzo, G. Poggi, and L. Verdoliva, "A comparison of flat and object-based transform coding techniques for the compression of multispectral images," in Proceed. of IEEE Intern. Conf. Image Proc., vol. 1, (Genova, Italy), pp. 657–660, Sept. 2005.

[C13] M. Cagnazzo, G. Poggi, and L. Verdoliva, "Costs and advantages of shape-adaptive wavelet transform for region-based image coding," in Proceed. of IEEE Intern. Conf. Image Proc., vol. 3, (Genova, Italy), pp. 197–200, Sept. 2005.

[C14] M. Cagnazzo, R. Gaetano, S. Parrilli, and L. Verdoliva, "Region based compression of multispectral images by classified KLT," in Proceed. of Europ. Sign. Proc. Conf., (Florence, Italy), Sept. 2006.

[C15] M. Cagnazzo, R. Gaetano, S. Parrilli, and L. Verdoliva, "Adaptive region-based compression of multispectral images," in Proceed. of IEEE Intern. Conf. Image Proc., (Atlanta, GA), pp. 3249–3252, Oct. 2006.

[C16] S. Parrilli, M. Cagnazzo, and B. Pesquet-Popescu, "Distortion evaluation in transform domain for adaptive lifting schemes," in IEEE Workshop on Multimedia Signal Processing, (Cairns, Australia), pp. 200–205, Oct. 2008.

[C17] S. Parrilli, M. Cagnazzo, and B. Pesquet-Popescu, "Distortion evaluation in transform domain for adaptive lifting schemes," in Visual Signal Processing and its Application, (Paris, France), Nov. 2008.

[C18] M. Cagnazzo, M. Agostini, M. Antonini, G. Laroche, and J. Jung, "Motion vector quantization for efficient low-bitrate video coding," in SPIE Visual Communications and Image Processing Conference, vol. 7257, (San Jose, California), Jan. 2009.

[C19] M. Cagnazzo, T. Maugey, and B. Pesquet-Popescu, "A differential motion estimation method for image interpolation in distributed video coding," in Int. Conf. on Acoustics, Speech and Signal Processing, vol. 1, (Taiwan), pp. 1861–1864, Apr. 2009.

[C20] S. Corrado, M. Agostini, M. Cagnazzo, M. Antonini, G. Laroche, and J. Jung, "Improving H.264 performances by quantization of motion vectors," in Picture Coding Symposium, (Chicago, IL), May 2009.

- [C21] T. Maugey, W. Miled, M. Cagnazzo, and B. Pesquet-Popescu, "Fusion schemes for multiview distributed video coding," in European Signal Processing Conference, vol. 1, (Glasgow, Scotland), pp. 559–563, Aug. 2009.
- [C22] W. Miled, T. Maugey, M. Cagnazzo, and B. Pesquet-Popescu, "Image interpolation with dense disparity estimation in multiview distributed video coding," in Int. Conf. on Distributed Smart Cameras, (Como, Italy), Sept. 2009.
- [C23] M. Antonini, M. Cagnazzo, and M. Oger, "The Secure Media SIM bitstream structure for video encryption and fingerprinting," in Smart Event, (Sophia Antipolis), Sept. 2009.
- [C24] T. Maugey, W. Miled, M. Cagnazzo, and B. Pesquet-Popescu, "Méthodes denses d'interpolation de mouvement pour le codage vidéo distribué monovue et multivue," in Colloque GRETSI - Traitement du Signal et des Images, (Dijon (France)), Sept. 2009.
- [C25] I. Daribo, M. Kaaniche, W. Miled, M. Cagnazzo, and B. Pesquet-Popescu, "Dense disparity estimation in multiview video coding," in IEEE Workshop on Multimedia Signal Processing, (Rio de Janeiro, Brazil), Oct. 2009. **Top 10% Award.**
- [C26] S. Parrilli, M. Cagnazzo, and B. Pesquet-Popescu, "Estimation of quantization noise for adaptive-prediction lifting schemes," in IEEE Workshop on Multimedia Signal Processing, (Rio de Janeiro, Brazil), Oct. 2009. **Top 10% Award.**
- [C27] N. Tizon, B. Pesquet-Popescu, and M. Cagnazzo, "Adaptive video streaming with long term feedbacks," in IEEE Int. Conf. on Image Processing, (Cairo, Egypt), Nov. 2009.
- [C28] M. Cagnazzo, W. Miled, T. Maugey, and B. Pesquet-Popescu, "Image interpolation with edge-preserving differential motion refinement," in IEEE Int. Conf. on Image Processing, vol. 1, (Cairo, Egypt), pp. 361–364, Nov. 2009.
- [C29] M. Cagnazzo and B. Pesquet-Popescu, "Perceptual impact of transform coefficients quantization for adaptive lifting schemes," in International Workshop on Video Processing and Quality Metrics for Consumer Electronics, (Scottsdale, AZ), Jan. 2010.
- [C30] G. Petrazzuoli, M. Cagnazzo, and B. Pesquet-Popescu, "High order motion interpolation for side information improvement in DVC," in Int. Conf. on Acoustics, Speech and Signal Processing, (Dallas, TX), March 2010.
- [C31] M. Cagnazzo and B. Pesquet-Popescu, "Introducing differential motion estimation into hybrid video coders," in SPIE Visual Communications and Image Processing Conference, vol. 1, (Huang Shan, An Hui, China), pp. 1–4, July 2010.
- [C32] M. Abid, M. Cagnazzo, and B. Pesquet-Popescu, "Image denoising by adaptive lifting schemes," in European Workshop on Visual Information Processing, vol. 1, (Paris, France), pp. 1–4, July 2010.
- [C33] G. Petrazzuoli, M. Cagnazzo, and B. Pesquet-Popescu, "Fast and efficient side information generation in distributed video coding by using dense motion rep," in European Signal Processing Conference, (Aalborg, Denmark), Aug. 2010.
- [C34] M. Abid, M. Kieffer, M. Cagnazzo, and B. Pesquet-Popescu, "Robust decoding of a 3d-escot bitstream transmitted over a noisy channel," in IEEE Int. Conf. on Image Processing, (Hong Kong), Sept. 2010.
- [C35] T. Maugey, C. Yaacoub, J. Farah, M. Cagnazzo, and B. Pesquet-Popescu, "Side information enhancement using an adaptive hash-based genetic algorithm in a Wyner-Ziv context," in IEEE Workshop on Multimedia Signal Processing, vol. 1, (Saint-Malo, France), Oct. 2010.
- [C36] C. Greco, M. Cagnazzo, and B. Pesquet-Popescu, "H.264-based multiple description coding using motion compensated temporal interpolation," in IEEE Workshop on Multimedia Signal Processing, vol. 1, (Saint-Malo, France), Oct. 2010.
- [C37] G. Petrazzuoli, T. Maugey, M. Cagnazzo, and B. Pesquet-Popescu, "Side information refinement for long duration GOPs in DVC," in IEEE Workshop on Multimedia Signal Processing, vol. 1, (Saint-Malo, France), Oct. 2010.
- [C38] A. Abou-El Ailah, J. Farah, M. Cagnazzo, B. Pesquet-Popescu, and F. Dufaux, "Improved side information generation for distributed video coding," in European Workshop on Visual Information Processing, (Paris), July 2011.
- [C39] M. Cagnazzo and B. Pesquet-Popescu, "Depth map coding by dense disparity estimation for MVD compression," in IEEE Digital Signal Processing, (Corfu, Greece), July 2011.
- [C40] A. Abou-El Ailah, J. Farah, M. Cagnazzo, B. Pesquet-Popescu, and F. Dufaux, "Successive refinement of motion compensated interpolation for transform-domain DVC," in European Signal Processing Conference, vol. 1, (Barcelona), pp. 1–4, Aug. 2011.
- [C41] C. Greco, M. Cagnazzo, and B. Pesquet-Popescu, "ABCD : Un protocole cross-layer pour la diffusion vidéo dans des réseaux sans fil adhoc," in Colloque GRETSI - Traitement du Signal et des Images, (Bordeaux, France), Sept. 2011.
- [C42] A. Abou-El Ailah, J. Farah, M. Cagnazzo, B. Pesquet-Popescu, and F. Dufaux, "Amélioration progressive de l'information adjacente pour le codage vidéo distribue," in Colloque GRETSI - Traitement du Signal et des Images, (Bordeaux, France), Sept. 2011.

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