

Journal papers

- [1] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "New Adaptive Algorithms for GOP Size Control with Return Channel Suppression in Wyner-Ziv Video Coding". *International Journal of Digital Multimedia Broadcasting (IJDMB), special issue on Advances in Video Coding for Broadcast Applications*. 2009. Vol.2009, open access paper.
- [2] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "Feedback Channel Suppression in Distributed Video Coding with Adaptive Rate Allocation and Quantization for Multiuser Applications", *EURASIP Journal on Wireless Communications and Networking (WCN)*. 2008. Vol.2008, open access paper.

Conference proceedings

- [1] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "A Genetic Algorithm for Side Information Enhancement in Distributed Video Coding", *IEEE International Conference on Image Processing*, ICIP'09, Cairo, Egypt, November 2009.
- [2] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "Content Adaptive GOP Size Control with Feedback Channel Suppression in Distributed Video Coding", *IEEE International Conference on Image Processing*, ICIP'09, Cairo, Egypt, November 2009.
- [3] J. Farah, C. Yaacoub, B. Pesquet-Popescu, "Nouvelle technique de génération de l'information adjacente en codage vidéo distribué basée sur les algorithmes génétiques", *22^e Colloque GRETSI*, GRETSI'09, Dijon, France, September 2009.
- [4] J. Farah, C. Yaacoub, B. Pesquet-Popescu, "Nouvelle technique d'adaptation dynamique de la taille du GOP dans le codage Wyner-Ziv des séquences vidéo", *22^e Colloque GRETSI*, GRETSI'09, Dijon, France, September 2009.
- [5] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "Improving Hash-Based Wyner-Ziv Video Coding Using Genetic Algorithms", *5th International Mobile Multimedia Communications Conference*, MOBIMEDIA'09, London, UK, September 2009. **Invited paper.**
- [6] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "A Genetic Frame Fusion Algorithm for Side Information Enhancement in Wyner-Ziv Video Coding", *17th European Signal Processing Conference*, EUSIPCO'09, Glasgow, Scotland, August 2009.
- [7] C. Yaacoub, J. Farah, "An Information-Theoretic Approach for Removing Feedback Channels in Distributed Video Coding", *2009 International Conference on Advances in Computational Tools for Engineering Applications*, ACTEA'09, Zouk Mosbeh, Lebanon, July 2009.
- [8] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "Optimal Rate Allocation in Multi-User Wyner-Ziv Video Coding Systems with Coded Key Frames", *19th Annual IEEE International Symposium on Personal, Indoor & Mobile Radio Communications*, PIMRC'08, Cannes, France, September 2008.
- [9] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "A Novel Technique for Practical Implementation of Pixel-Domain Wyner-Ziv Video Coding in Multi-User Systems", *16th European Signal Processing Conference*, EUSIPCO'08, Lausanne, Switzerland, August 2008.

- [10] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "A Cross-Layer Approach with Adaptive Rate Allocation and Quantization for Return Channel Suppression in Wyner-Ziv Video Coding Systems", *3rd IEEE International Conference on Information and Communication Technologies, from Theory to Applications, ICTTA'08*, Damascus, Syria, April 2008.
- [11] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "Dynamic Rate Allocation with Variable Quantization in Multi-Sensor Wyner-Ziv Video Coding Systems", *3rd IEEE International Symposium on Communications, Control and Signal Processing, ISCCSP'08*, St. Julians, Malta, March 2008.
- [12] C. Yaacoub, J. Farah, B. Pesquet-Popescu, "Joint Source-Channel Wyner-Ziv Coding in Wireless Video Sensor Networks", *7th IEEE International Symposium on Signal Processing and Information Technology, ISSPIT'07*, Cairo, Egypt, December 2007.
- [13] C. Yaacoub, J. Farah, N. Rachkidy , B. Pesquet-Popescu, "A Cross-Layer Approach for Dynamic Rate Allocation in H.264 Multi-User Video Streaming", *14th IEEE International Conference on Electronics, Circuits and Systems, ICECS'07* , Marrakech, Morocco, December 2007.
- [14] J. Farah, C. Yaacoub, F. Marx, B. Pesquet-Popescu, "Analyse des performances d'un système de compression distribuée de séquences vidéo transmises sur un lien non fiable", *21^e Colloque GRETSI, GRETSI'07*, Troyes, France, September 2007.
- [15] J. Farah, C. Yaacoub, F. Marx, B. Pesquet-Popescu, "Performance Analysis of a Distributed Video Coding System - Application to Broadcasting over an Error-Prone Channel", *15th European Signal Processing Conference, EUSIPCO'07*, Poznan, Poland, September 2007.
- [16] J. Farah, C. Yaacoub, F. Marx, B. Pesquet-Popescu, "Distributed Coding of Video Sequences Transmitted through Error-Prone Channels", *IEEE 4th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications, SETIT'07*, Hammamet, Tunisia, March 2007.
- [17] C. Yaacoub, J. Farah, N. Rachkidy , F. Marx, B. Pesquet-Popescu, "Dynamic RCPT-Based Cross-Layer Optimization for Multi-User H.264 Video Streaming", *2nd International Computer Engineering Conference, ICENCO'06* , Cairo, Egypt, December 2006.
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- [18] J. Farah, C. Yaacoub, N. Rachkidy , F. Marx, "Binary and non-Binary Turbo Codes for the Compression of Correlated Sources Transmitted through Error-Prone Channels", *4th International Symposium on Turbo Codes, ISTC'06*, and *6th ITG Conference on Source and Channel Coding*, Munich, Germany, April 2006.

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- [1] C. Yaacoub, J. Farah, N. Rachkidy , B. Pesquet-Popescu, "Cross-Layer Optimization for Dynamic Rate Allocation in a Multi-User Video Streaming System", *1st International Conference on New Technologies, Mobility and Security, NTMS'07*, Paris, France, May 2007.