

## 9 Annexes

### 9.1 List of most important publications of the NCCR

IM2 has filed more than 2100 publications in peer reviewed journal & proceedings over 12 years, which are all available <http://www.im2.ch/publications/>. After internal selection, based on the number of citations, relevance to IM2 core vision, balance between IM2 partners, etc, the 25 “most important” publications are listed below.

#### BOOKS:

1. *Interactive Multimodal Information Management*, Bourlard, H. and Popescu-Belis, A. (Editors), Interactive Multimodal Information Management, to be published by EPFL-Press (Presses Polytechniques et Universitaires Romandes), 2013.
2. *Multimodal Signal Processing - Human Interactions in Meetings*, Renals, S., Bourlard, H., Carletta, J., and Popescu-Belis, A. (Editors), Cambridge University Press, ISBN-13: 9781107022294, May 2012.

#### JOURNALS:

3. H Bay, A Ess, T Tuytelaars, L Van Gool, Speeded-up robust features (SURF), *Computer Vision and Image Understanding* 110 (3), pp. 346-359, 2008  
*3418 citations*
4. A. Vinciarelli, M. Pantic, H. Bourlard , Social signal processing: Survey of an emerging domain *Image and Vision Computing*, 27(12):1743-1759, 2009  
*265 Citations*
5. DB Jayagopi, H Hung, C Yeo, D Gatica-Perez , Modeling dominance in group conversations using nonverbal activity cues, *Audio, Speech, and Language Processing*, IEEE Transactions on 17 (3), 501-513, Mar. 2009  
*92 citations*
6. G Chanel, JJM Kierkels, M Soleymani, T Pun , Short-term emotion assessment in a recall paradigm, *International Journal of Human-Computer Studies* 67 (8), 607-627, 2009  
*91 citations*
7. H Bay, T Tuytelaars, L Van Gool , Surf: Speeded up robust features , *ECCV 2006*, pp. 404-417  
*3360 citations*
8. U Hoffmann, JM Vesin, T Ebrahimi, K Diserens, An efficient P300-based brain-computer interface for disabled, *Journal of Neuroscience methods* 167 (1), 115-125, 2008  
*304 citations*
9. IA McCowan, H Bourlard , Microphone array post-filter based on noise field coherence, *Speech and Audio Processing*, IEEE Transactions on 11 (6), 709-716, 2003  
*158 citations*
10. L McCowan, D Gatica-Perez, S Bengio, G Lathoud, M Barnard, D Zhang , Automatic analysis of multimodal group actions in meetings *Pattern Analysis and Machine Intelligence*, IEEE Transactions on 27 (3), 305-317, Mar. 2005  
*260 citations*
11. Dumas, B., Lalanne, D., Oviatt, S. (2009), *Multimodal Interfaces: A Survey of Principles, Models and Frameworks*, in *Human Machine Interaction*, Denis Lalanne and Jurg Kohlas (eds.), LNCS 5440, Springer-Verlag, Berlin/Heidelberg, pp. 3-26.  
*72 citations*

12. A Sonderegger, J Sauer. The influence of design aesthetics in usability testing: Effects on user performance and perceived usability. *Applied Ergonomics* 41 (3), 403-410  
*73 citations*
13. P Muller, P Wonka, S Haegler, A Ulmer, L Van Gool , Procedural modeling of buildings, *ACM Transactions on Graphics (TOG)* 25 (3), 614-623, 2006  
*540 citations* (This paper is also the one that “gave birth” to the very successful company *Procedural*).
14. Carletta, Jean and Ashby, Simone and Bourban, Sebastien and Flynn, Mike and Guillemot, Mael and Hain, Thomas and Kadlec, Jaroslav and Karaiskos, Vasilis and Kraaij, Wessel and Kronenthal, Melissa and Lathoud, Guillaume and Lincoln, Mike and Lisowska, Agnes and McCowan, Iain and Post, Wilfried and Reidsma, Dennis and Wellner, Pierre (2006). The AMI meeting corpus: A pre-announcement. In *Machine learning for multimodal interaction* (pp. 28-39). Springer Berlin Heidelberg.  
*281 citations*
15. Jitendra Ajmera and Chuck Wooters , A robust speaker clustering algorithm, *IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU)*, 2003.  
*194 citations*
16. E Bruno, N Moenne-Loccoz, S Marchand-Maillet , Design of multimodal dissimilarity spaces for retrieval of video documents, *Pattern Analysis and Machine Intelligence, IEEE Transactions on* 30 (9), 1520, 2008  
*34 citations*
17. A. Vinciarelli, S. Bengio, H. Bunke , Offline recognition of unconstrained handwritten texts using HMMs and statistical language models, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 26(6):709-720, 2004  
*202 citations*
18. L McCowan, D Gatica-Perez, S Bengio, G Lathoud, M Barnard, D Zhang , Automatic analysis of multimodal group actions in meetings *Pattern Analysis and Machine Intelligence, IEEE Transactions on* 27 (3), 305-317, Mar. 2005  
*260 citations*
19. J Ajmera, I McCowan, H Bourlard , Robust speaker change detection, *Signal Processing Letters, IEEE* 11 (8), 649-651, 2004  
*128 citations*
20. F. Camastra, A. Vinciarelli , Estimating the intrinsic dimension of data with a fractal-based method, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 24(10):1404-1407, 2002.  
*139 citations*
21. A Cavallaro, O Steiger, T Ebrahimi, Tracking video objects in cluttered background, *Circuits and Systems for Video Technology, IEEE Transactions on* 15 (4), 575-584, 2005  
*107 citations*
22. Siley O Ba, Jean-Marc Odobez, A probabilistic framework for joint head tracking and pose estimation, *Proceedings of the 17th International Conference on Pattern Recognition*, 2004.  
*65 citations*
23. Wellner, P., Flynn, M., & Guillemot, M. (2005). Browsing recorded meetings with Ferret. In *Machine Learning for Multimodal Interaction* (pp. 12-21). Springer Berlin Heidelberg.  
*80 citations*

24. J Kludas, E Bruno, S Marchand-Maillet , Information fusion in multimedia information retrieval , Adaptive Multimedial Retrieval: Retrieval, User, and Semantics, 147-159, 2008  
*33 citations*
25. P. Quelhas, F. Monay, J.-M. Odobez, D. Gatica-Perez, T. Tuytelaars, and L. Van Gool, Modeling Scenes with Local Descriptors and Latent Aspects, Proc. IEEE Int. Conf. on Computer Vision (ICCV), Beijing, Oct. 2005  
*295 citations*