

Bibliographie
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GRENOBLE

Livres

- Vatikiotis-Bateson, E., G. Bailly and P. Perrier (to appear). Audiovisual Speech Processing. Cambridge, MA, USA, MIT Press.
- Keller, E., G. Bailly, A. I. C. Monaghan, J. Terken and M. Huckvale (2002). Improvements in Speech Synthesis. Chichester, England, J. Wiley & Sons, Ltd.
- Bailly, G. and C. Beno t (1992). Talking Machines: Theories, Models and Designs. Amsterdam, North-Holland.

Articles de revue

- B rar, M., Desvignes, M., Bailly, G., and Payan, Y. (2006) 3D semi landmarks-based statistical face reconstruction. *International Journal of Computing and Information Technology*, 14(1): p.31-43.
- Bailly, G. and Holm, B. (2005) SFC: a trainable prosodic model. *Speech Communication*. **46** (3-4): 348-364.
- Gibert, G., Bailly, G., Beutemps, D., Elisei, F., and Brun, R. (2005) Analysis and synthesis of the 3D movements of the head, face and hands of a speech cuer. *Journal of the Acoustical Association of America*, **118** (2), 1144-1153.
- Odisio, M. and G. Bailly (2004). "Shape and appearance models of talking faces for model-based tracking." Speech Communication: **44**: 63-82.
- Bailly, G., M. B rar, F. Elisei and M. Odisio (2003). "Audiovisual speech synthesis." International Journal of Speech Technology **6**: 331-346.
- Bailly, G. (2003). "Close shadowing natural versus synthetic speech." International Journal of Speech Technology **6**(1): 11-19.
- Apostol, L., P. Perrier and G. Bailly (2003). "A model of acoustic interspeaker variability based on the concept of formant-cavity affiliation." Journal of Acoustical Society of America **115**(1): 337-351.
- Bailly, G. and B. Holm (2002). "Learning the hidden structure of speech: from communicative functions to prosody." Cadernos de Estudos Linguisticos **43**: 37-54.
- Badin, P., G. Bailly, L. Rev ret, M. Baci , C. Segebarth and C. Savariaux (2002). "Three-dimensional linear articulatory modeling of tongue, lips and face based on MRI and video images." Journal of Phonetics **30**(3): 533-553.
- Morlec, Y., G. Bailly and V. Auberg  (2001). "Generating prosodic attitudes in French: data, model and evaluation." Speech Communication **33**(4): 357-371.
- Beutemps, D., P. Badin and G. Bailly (2001). "Degrees of freedom in speech production: analysis of cineradio- and labio-films data for a reference subject, and articulatory-acoustic modeling." Journal of the Acoustical Society of America **109**(5): 2165-2180.

- Mawass, K., P. Badin and G. Bailly (2000). "Articulatory synthesis of French fricative consonants." Acta Acoustica **86**: 136-146.
- Yvon, F., P. Boula de Mareuil, C. d'Alessandro, V. Aubergé, M. Bagein, G. Bailly, F. Béchet, S. Foukia, J.-F. Glodman, E. Keller, D. O'Shaughnessy, V. Pagel, F. Sannier, J. Véronis and B. Zellner (1998). "Objective evaluation of grapheme to phoneme conversion for text-to-speech synthesis in French." Computer Speech and Language **12**: 393-410.
- Bailly, G. (1998). "Learning to speak. Sensori-motor control of speech movements." Speech Communication **22**(2-3): 251-267.
- Bailly, G. (1998). "Cortical dynamics and biomechanics." Bulletin de la Communication Parlée **4**: 35-44.
- Barbosa, P. and G. Bailly (1994). "Characterisation of rhythmic patterns for text-to-speech synthesis." Speech Communication **15**: 127-137.
- Bonnyman, J., K. M. Curtis and G. Bailly (1993). "A transputer-based recurrent neural network for resonance tracking of speech." Transputer Applications and Systems **1**: 1219-1228.
- Boë, L.-J., P. Perrier and G. Bailly (1992). "The geometric vocal tract variables controlled for vowel production: Proposals for constraining acoustic-to-articulatory inversion." Journal of Phonetics **20**(1): 27-38.
- Bailly, G. and M. Alissali (1992). "COMPOST: a server for multilingual text-to-speech system." Traitement du Signal **9**(4): 359-366.
- Laboissière, R., J.-L. Schwartz and G. Bailly (1991). "Modelling the speaker-listener interaction in a quantitative model for speech motor control: a framework and some preliminary results." PERILUS XIV - Department of Linguistics: 57-62.
- Bailly, G., R. Laboissière and J.-L. Schwartz (1991). "Formant trajectories as audible gestures: An alternative for speech synthesis." Journal of Phonetics **19**(1): 9-23.
- Bailly, G. and J. Liu (1990). "Détection d'indices par quantification vectorielle et réseaux Markoviens." Journal d'Acoustique **3**: 143-151.
- Bailly, G. (1989). "Integration of rhythmic and syntactic constraints in a model of generation of French prosody." Speech Communication **8**: 137-146.
- Bailly, G., A. Perrin and Y. Lepage (1988). "Common approaches in speech synthesis and automatic translation of text." Bulletin du Laboratoire de la Communication Parlée - Grenoble **2B**: 295-311.
- Dakkak, O. A., G. Murillo, G. Bailly and B. Guérin (1988). "A database of formant parameters for knowledge extraction and synthesis-by-rule." Bulletin du Laboratoire de la Communication Parlée: 391-405.

Chapitres de livres

- Bailly, G., E. Bateson, P. Badin, L. Revéret and H. Yehia (to appear). Visible characteristics of speech production, in *Audiovisual speech processing*, Vatikiotis-Bateson, E., G. Bailly and P. Perrier, Editors, MIT Press: Boston.
- Bérar, M., G. Bailly, M. Chabanas, M. Desvignes, F. Elisei, M. Odisio and Y. Pahan (2006). *Towards a generic talking head. Towards a better understanding of speech production processes*. J. Harrington and M. Tabain. New York, Psychology Press: 341-362.

- Baily, G. (2002). Towards more versatile signal generation systems. Improvements in Speech Synthesis. E. Keller, G. Baily, A. I. C. Monaghan, J. Terken and M. Huckvale. Chichester, England, J. Wiley & Sons, Ltd: 18-21.
- Baily, G. (2001). The cost258 signal generation test array. Improvements in Speech Synthesis. E. Keller, G. Baily, A. I. C. Monaghan, J. Terken and M. Huckvale. Chichester, England, J. Wiley & Sons, Ltd: 39-51.
- Baily, G. (2001). A parametric harmonic + noise model. Improvements in Speech Synthesis. E. Keller, G. Baily, A. I. C. Monaghan, J. Terken and M. Huckvale. Chichester, England, J. Wiley & Sons, Ltd: 22-38.
- Barbosa, P. and G. Baily (1997). Generation of pauses within the z-score model. Progress in Speech Synthesis. J. P. H. V. Santen, R. W. Sproat, J. P. Olive and J. Hirschberg. New York, Springer Verlag: 365-381.
- Baily, G., V. Aubergé and Y. Morlec (1997). Des représentations cognitives aux représentations phonétiques de l'intonation. Polyphonie pour Iván Fónagy. J. Perrot, L'Harmattan: 19-28.
- Baily, G. and V. Aubergé (1997). Phonetic and phonological representations for intonation. Progress in Speech Synthesis. J. P. H. V. Santen, R. W. Sproat, J. P. Olive and J. Hirschberg. New York, Springer Verlag: 435-441.
- Baily, G. (1997). No future for comprehensive models of intonation? Computing prosody: Computational models for processing spontaneous speech. Y. Sagisaka, N. Campbell and N. Higuchi, Springer Verlag: 157-164.
- Baily, G. (1996). Pistes de recherches en synthèse de la parole. Fondements et perspectives en traitement automatique de la parole. H. Méloni. Paris - France, AUPELF-UREF: 109-122.
- Baily, G. (1995). Characterisation of formant trajectories by tracking vocal tract resonances. Levels in speech communication : relations and interactions. C. Sorin, J. Mariani, H. Méloni and J. Schoentgen. Amsterdam, Elsevier: 91-102.
- Baily, G., T. Barbe and H. Wang (1992). Automatic labelling of large prosodic databases: tools, methodology and links with a text-to-speech system. Talking Machines: Theories, Models and Designs. G. Baily and C. Benoît. Amsterdam, North-Holland: 323-333.
- Baily, G., C. Abry, L.-J. Boë, R. Laboissière, P. Perrier and J.-L. Schwartz (1992). Inversion and speech recognition. Signal Processing VI: Theories and Applications. J. Vandewalle, R. Boîte, M. Moonen and A. Oosterlinck. Amsterdam, Elsevier. 1: 159-164.
- Baily, G. (1989). Synthèse de la parole. La parole et son traitement automatique. J.-P. Tubach. Paris, Masson: 408-448.

Conférences internationales avec comité de lecture

2006

- Baily, G., Baras, C., Bas, P., Baudry, S., Beautemps, D., Brun, R., Chassery, J.-M., Davoine, F., Elisei, F., Gibert, G., Girin, L., Grison, D., Léoni, J.-P., Liénard, J., Moreau, N., and Nguyen, P. (2006) ARTUS : calcul et tatouage audiovisuel des mouvements d'un personnage animé virtuel pour l'accessibilité d'émissions télévisuelles aux téléspectateurs sourds comprenant la Langue Française Parlée Complétée. in Handicap. Paris (accepted).

- Bailly, G., F. Elisei, P. Badin and C. Savariaux (2006). Degrees of freedom of facial movements in face-to-face conversational speech. International Workshop on Multimodal Corpora, Genoa – Italy, 33-36.
- Boula de Mareüil, P., C. d'Alessandro, A. Raake, G. Bailly, M.-N. Garcia and M. Morel (2006). A joint intelligibility evaluation of French text-to-speech systems: the EvaSy SUS/ACR campaign. Language Ressources and Evaluation Conference (LREC), Genova - Italy: 2034-2037.
- Garcia, M.-N., C. d'Alessandro, P. Boula de Mareüil, A. Raake, G. Bailly and M. Morel (2006). A joint intelligibility evaluation of French text to speech systems: the EVASY/SUS campaign. Language Ressources and Evaluation Conference (LREC), Genova - Italy: 307-310.
- Raidt, S., G. Bailly and F. Elisei (2006). Does a virtual talking face generate proper multimodal cues to draw user's attention towards interest points? Language Ressources and Evaluation Conference (LREC), Genova - Italy: 2544-2549.
- Govokhina, O., G. Bailly, G. Breton and P. Bagshaw (2006). Evaluation de systèmes de génération de mouvements faciaux. Journées d'Etudes sur la Parole, Rennes - France: accepted.
- Gibert, G., G. Bailly and F. Elisei (2006). Evaluation d'un système de synthèse 3D de Langue française Parlée Complétée. Journées d'Etudes sur la Parole, Rennes - France: accepted.
- Govokhina, O., G. Bailly, G. Breton and P. Bagshaw (2006). A new trainable trajectory formation system for facial animation. ISCA Workshop on Experimental Linguistics, Athens, Greece: accepted.
- Gibert, G., G. Bailly and F. Elisei (2006). Evaluation of a virtual speech cuer. ISCA Workshop on Experimental Linguistics, Athens, Greece: accepted.
- Gacon, P., P. Y. Coulon and G. Bailly (2006). Audiovisual speech enhancement experiments for mouth segmentation evaluation. EUSIPCO, Pisa, Italy: accepted.
- Govokhina, O., G. Bailly, G. Breton and P. Bagshaw (2006). TDA: A new trainable trajectory formation system for facial animation. InterSpeech, Pittsburgh, PE: submitted.
- Gibert, G., G. Bailly and F. Elisei (2006). Evaluating a virtual speech cuer. InterSpeech, Pittsburgh, PE: submitted.
- Bailly, G. and I. Gorisch (2006). Generating German intonation with a trainable prosodic model. InterSpeech, Pittsburgh, PE: submitted.

2005

- Raidt, S., Elisei, F., and Bailly, G. (2005) Face-to-face interaction with a conversational agent: eye-gaze and deixis. in International Conference on Autonomous Agents and Multiagent Systems. Utrecht University, The Netherlands.
- Raidt, S., G. Bailly and F. Elisei (2005). Eye gaze in face-to-face interaction with a talking head. European Conference on Eye Movements, Bern, Switzerland.
- Bailly, G., Elisei, F., and Raidt, S. (2005) Multimodal face-to-face interaction with a talking face: mutual attention and deixis. in Human-Computer Interaction International. Las Vegas.

- Bélar, M., M. Desvignes, G. Bailly and Y. Payan (2005). Statistical skull models from 3D X-ray images. in International Conference on Reconstruction of Soft Facial Parts, Remagen, Germany.
- Bélar, M., Desvignes, M., Bailly, G., and Payan, Y. (2005) 3D statistical facial reconstruction. in International Symposium on Image and Signal Processing and Analysis. Zagreb, Croatia.
- Bélar, M., Desvignes, M., Bailly, G., and Payan, Y. (2005) Missing data estimation using polynomial kernels. in International Conference on Advances in Pattern Recognition. Bath, UK.
- Bélar, M., Desvignes, M., Bailly, G., and Payan, Y. (2005) Reconstruction par noyaux polynomiaux. in GRETSI. Louvain-la-neuve, Belgique.
- Gacon, P., Coulon, P.Y., and Bailly, G. (2005) Statistical active model for mouth components segmentation. in International Conference on Acoustics, Speech, and Signal Processing. Philadelphia, PA.
- Gacon, P., P. Y. Coulon and G. Bailly (2005). Modèle statistique et description locale d'apparence pour la détection des contours des lèvres. GRETSI, Louvain-la-Neuve, Belgique.
- Gacon, P., Coulon, P.Y., and Bailly, G. (2005) Non-linear active model for mouth inner and outer contours detection. in EUSIPCO. Antalya, Turkey.
- Elisei, F., Bailly, G., Gibert, G., and Brun, R. (2005) Capturing data and realistic 3D models for cued speech analysis and audiovisual synthesis. in Auditory-Visual Speech Processing Workshop. Vancouver, Canada.

2004

- Raidt, S., Bailly, G., Holm, B., and Mixdorff, H. (2004) Automatic generation of prosody: comparing two superpositional systems. in International Conference on Speech Prosody. Nara, Japan. p.417-420.
- Berar, M., Desvignes, M., Bailly, G., and Payan, Y. (2004) 3D Meshes Registration : Application to statistical skull mode. in International Conference on Image Analysis and Recognition. Porto - Portugal. p. 100-107.
- Odisio, M. and Bailly, G. (2004) Audiovisual perceptual evaluation of resynthesised speech movements. in International Conference on Speech and Language Processing. Jeju, Korea. p. 2029-2032.
- Bailly, G., Holm, B., and Aubergé, V. (2004) A trainable prosodic model: learning the contours implementing communicative functions within a superpositional model of intonation. in International Conference on Speech and Language Processing. Jeju, Korea. p. 1425-1428.
- Chen, G.-P., Bailly, G., Liu, Q.-F., and Wang, R.-H. (2004) A superposed prosodic model for Chinese text-to-speech synthesis. in International Conference of Chinese Spoken Language Processing. p.177-180.
- Gibert, G., G. Bailly, F. Elisei, D. Beautemps and R. Brun (2004). Audiovisual text-to-cued speech synthesis. Eusipco, Vienna - Austria: 1007-1010.
- Gibert, G., G. Bailly and F. Elisei (2004). Audiovisual text-to-cued speech synthesis. 5th Speech Synthesis Workshop, Pittsburgh, PA: 85-90.
- Gibert, G., G. Bailly, F. Elisei, D. Beautemps and R. Brun (2004). Evaluation of a speech cuer: from motion capture to a concatenative text-to-cued speech system. Language Ressources and Evaluation Conference (LREC), Lisbon, Portugal: 2123-2126.

- Gibert, G., G. Bailly, F. Elisei, D. Beautemps and R. Brun (2004). Mise en oeuvre d'un synthétiseur 3D de Langage Parlé Complété. Journées d'Etudes sur la Parole, Fès, Maroc: 245-248.
- Gacon, P., P.-Y. Coulon and G. Bailly (2004). Shape and sampled-based appearance model for mouth components segmentation. International Workshop on Image Analysis for Multimedia Interactive Services, Lisbon.

2003

- Odisio, M. and G. Bailly (2003). Shape and appearance models of talking faces for model-based tracking. Audio Visual Speech Processing, St Jorioz, France: 105-110.
- Odisio, M. and G. Bailly (2003). Shape and appearance models of talking faces for model-based tracking. International Conference on Computer Vision, Nice - France: 143-148.
- Bérar, M., G. Bailly, M. Chabanas, F. Elisei, M. Odisio and Y. Pahan (2003). Towards a generic talking head. 6th International Seminar on Speech Production, Sydney- Australia: 7-12.
- Bailly, G., N. Campbell and B. Mobius (2003). ISCA Special Session: Hot Topics in Speech Synthesis. EuroSpeech, Geneva, Switzerland: 37-40.
- Bailly, G., F. Elisei, M. Odisio, D. Pelé and K. Grein-Cochard (2003). Objects and agents for MPEG-4 compliant scalable face-to-face telecommunication. Smart Object Conference, Grenoble - France: 204-207.
- Badin, P., G. Bailly, F. Elisei and M. Odisio (2003). Virtual talking heads and audiovisual articulatory synthesis. International Congress on Phonetic Sciences, Barcelona: 193-197.

2002

- Holm, B. and G. Bailly (2002). Learning the hidden structure of intonation: implementing various functions of prosody. Speech Prosody, Aix-en-Provence, France: 399-402.
- Bailly, G., G. Gibert and M. Odisio (2002). Evaluation of movement generation systems using the point-light technique. IEEE Workshop on Speech Synthesis, Santa Monica, CA: 27-30.
- Bailly, G. (2002). Audiovisual speech synthesis. From ground truth to models. International Conference on Speech and Language Processing, Boulder - Colorado: 1453-1456.
- Bailly, G. and P. Badin (2002). Seeing tongue movements from outside. International Conference on Speech and Language Processing, Boulder - Colorado: 1913-1916.
- Bailly, G. and B. Holm (2002). Learning the hidden structure of speech: from communicative functions to prosody. Symposium on Prosody and Speech Processing, Tokyo, Japan: 113-118.

2001

- Elisei, F., M. Odisio, G. Bailly and P. Badin (2001). Creating and controlling video-realistic talking heads. Auditory-Visual Speech Processing Workshop, Scheelsminde, Denmark: 90-97.

- Baily, G. (2001). Audiovisual speech synthesis. ETRW on Speech Synthesis, Perthshire - Scotland: 1-10.
- Baily, G. (2001). Close shadowing natural vs synthetic speech. ETRW on Speech Synthesis, Perthshire - Scotland: 87-90.

2000

- Revéret, L., G. Baily and P. Badin (2000). MOTHER: a new generation of talking heads providing a flexible articulatory control for video-realistic speech animation. International Conference on Speech and Language Processing, Beijing - China: 755-758.
- Revéret, L., G. Baily, P. Borel and P. Badin (2000). Analyse par la synthèse d'un visage 3D parlant : inversion opto-articulaire. Journées d'Etudes sur la Parole, Aussois, France: 125-128.
- Holm, B. and G. Baily (2000). Generating prosody by superposing multi-parametric overlapping contours. Proceedings of the International Conference on Speech and Language Processing, Beijing, China: 203-206.
- Holm, B. and G. Baily (2000). Génération de la prosodie par superposition de contours chevauchants: application à l'énonciation de formules mathématiques. Journées d'Etudes sur la Parole, Aussois - France: 113-116.
- Borel, P., P. Badin, L. Revéret and G. Baily (2000). Modélisation articuloire linéaire 3D d'un visage pour une tête parlante virtuelle. Actes des 23èmes Journées d'Etude de la Parole, Aussois, France: 121-124.
- Baily, G. (2000). Evaluation des systèmes d'analyse-modification-synthèse de parole. Journées d'Etudes sur la Parole, Aussois - France: 109-112.
- Baily, G., E. R. Banga, A. Monaghan and E. Rank (2000). The Cost258 Signal Generation Test Array. Second International Conference on Language Resources and Evaluation, Athens - Greece: 651-654.
- Badin, P., P. Borel, G. Baily, L. Revéret, M. Baciú and C. Segebarth (2000). Towards an audiovisual virtual talking head: 3D articulatory modeling of tongue, lips and face based on MRI and video images. Proceedings of the 5th Speech Production Seminar, Kloster Seeon - Germany: 261-264.

1999

- Morlec, Y., G. Baily and V. Aubergé (1999). Training an application-dependent prosodic model: corpus, model and evaluation. Proceedings of the European Conference on Speech Communication and Technology, Budapest, Hungary: 1643-1646.
- Holm, B., G. Baily and C. Laborde (1999). Performance structures of mathematical formulae. International Congress of Phonetic Sciences, San Francisco, USA: 1297-1300.
- Badin, P., G. Baily and L.-J. Boë (1999). Speech production models and Virtual Talking Heads: Useful aids for pronunciation training ? InStill, Besançon, France.
- Baily, G. (1999). Accurate estimation of sinusoidal parameters in an Harmonic+Noise Model for speech synthesis. Proceedings of the European Conference on Speech Communication and Technology, Budapest, Hungary: 1051-1054.

1998

- Neagu, A. and G. Bailly (1998). Collaboration and competition of burst and transition cues for the perception and identification of French stops. Proceedings of the International Conference on Speech and Language Processing, Sydney, Australia: 2127-2130.
- Morlec, Y., A. Rilliard, G. Bailly and V. Aubergé (1998). Evaluating the adequacy of synthetic prosody in signaling syntactic boundaries: methodology and first results. First International Conference on Language Resources and Evaluation, Granada, Spain.
- Bailly, G., P. Badin and A. Vilain (1998). Contribution de la mâchoire à la géométrie de la langue dans les modèles articulatoire statistiques. Journées d'Etudes sur la Parole, Martigny, Suisse: 287-290.
- Bailly, G., P. Badin and A. Vilain (1998). Synergy between jaw and lips/tongue movements : consequences in articulatory modelling. Proceedings of the International Conference on Speech and Language Processing, Sydney, Australia: 417-420.
- Badin, P., L. Pouchoy, G. Bailly, M. Raybaudi, C. Segebarth, J. F. Lebas, M. Tiede, E. Vatikiotis-Bateson and Y. Tohkura (1998). Un modèle articulatoire tridimensionnel du conduit vocal basé sur des données IRM. Journées d'Etudes sur la Parole, Martigny, Suisse: 283-286.
- Badin, P., G. Bailly, M. Raybaudi and C. Segebarth (1998). A three-dimensional linear articulatory model based on MRI data. International Conference on Speech and Language Processing, Sydney, Australia: 417-420.
- Badin, P., G. Bailly, M. Raybaudi and C. Segebarth (1998). A three-dimensional linear articulatory model based on MRI data. ESCA/COCOSDA Workshop on Speech Synthesis, Jenolan Caves, Australia: 249-254.
- Badin, P., G. Bailly and L.-J. Boë (1998). Towards the use of a Virtual Talking Head and of Speech Mapping tools for pronunciation training. Proceedings of the ESCA Tutorial and Research Workshop on Speech Technology in Language Learning, Stockholm – Sweden

1997

- Neagu, A. and G. Bailly (1997). Relative contributions of noise burst and vocalic transitions to the perceptual identification of stop consonants. Proceedings of the European Conference on Speech Communication and Technology, Rhodes - Greece: 2175-2178.
- Morlec, Y., G. Bailly and V. Aubergé (1997). Generating the prosody of attitudes. ETRW Workshop on Prosody, Athens - Greece: 251-254.
- Morlec, Y., G. Bailly and V. Aubergé (1997). Synthesising attitudes with global rhythmic and intonation contours. Proceedings of the European Conference on Speech Communication and Technology, Rhodes - Greece: 219-222.
- Mawass, K., P. Badin and G. Bailly (1997). Synthesis of fricative consonants by audiovisual-to-articulatory inversion. Proceedings of the European Conference on Speech Communication and Technology, Rhodes - Greece: 1359-1362.

1996

- Neagu, A. and G. Bailly (1996). R1, R2 et R3 : un ensemble robuste de paramètres pour la caractérisation des espaces vocaliques. Journées d'Etudes sur la Parole, Avignon-France: 247-250.
- Morlec, Y., G. Bailly and V. Aubergé (1996). Un modèle connexionniste modulaire pour l'apprentissage des gestes intonatifs. Journées d'Etudes sur la Parole, Avignon-France: 207-210.
- Morlec, Y., G. Bailly and V. Aubergé (1996). Generating intonation by superposing gestures. Proceedings of the International Conference on Speech and Language Processing, Philadelphia - USA: 283-286.
- Beautemps, D., P. Badin, G. Bailly, A. Galván and R. Laboissière (1996). Evaluation of an articulatory-acoustic model based on a reference subject. ETRW on Speech Production: from Control Strategies to acoustics, Autrans - France: 45-48.
- Bailly, G. (1996). Emergence de prototypes sensori-moteurs à partir d'exemplaires audio-visuels. Journées d'Etudes sur la Parole, Avignon-France: 87-90.
- Bailly, G. (1996). Building sensori-motor prototypes from audio-visual exemplars. International Conference on Speech and Language Processing, Philadelphia - USA: 957-960.
- Badin, P., K. Mawass, G. Bailly, C. Vescovi, D. Beautemps and X. Pelorson (1996). Articulatory synthesis of fricative consonants : data and models. ETRW on Speech Production: from Control Strategies to acoustics, Autrans - France: 221-224.
- Bailly, G. (1996). Sensori-motor control of speech movements. ETRW on Speech Production Modelling: from Control Strategies to acoustics, Autrans: 145-154.

1995

- Morlec, Y., V. Aubergé and G. Bailly (1995). Evaluation of automatic generation of prosody with a superposition model. Proceedings of the International Congress of Phonetic Sciences, Stockholm - Sweden: 224-227.
- Bailly, G., L.-J. Boë, N. Vallée and P. Badin (1995). Articulatori-acoustic prototypes for speech production. Proceedings of the European Conference on Speech Communication and Technology, Madrid - Spain: 1913-1916.
- Bailly, G. (1995). Recovering place of articulation for occlusives in VCVs. Proceedings of the International Congress of Phonetic Sciences, Stockholm - Sweden: 230-233.
- Badin, P., B. Gabioud, D. Beautemps, T. Lallouache, G. Bailly, S. Maeda, J.-P. Zerling and G. Brock (1995). Cineradiography of VCV sequences: articulatory-acoustic data for a speech production model. International Congress on Acoustics, Trondheim - Norway: 349-352.
- Aubergé, V. and G. Bailly (1995). Generation of intonation: a global approach. Proceedings of the European Conference on Speech Communication and Technology, Madrid: 2065-2068.

1994

- Bonnyman, J., K. M. Curtis and G. Bailly (1994). A neural network application for the analysis and synthesis of multilingual speech. IEEE International

Conference on Speech, Image Processing and Neural Networks, Hong Kong: 327-330.

- Baily, G., E. Castelli and B. Gabioud (1994). Building prototypes for articulatory speech synthesis. Second International Workshop on Speech Synthesis, New Paltz - New York: 9-12.
- Barbosa, P. and G. Baily (1994). Generating pauses within the z-score model. ETRW on Speech Synthesis, New Paltz - New York: 101-104.

1993

- Baily, G. (1993). Resonances as possible representation of speech in the auditory-to-articulatory transform. Proceedings of the European Conference on Speech Communication and Technology: 1511-1514.
- Alissali, M. and G. Baily (1993). COMPOST: A client-server model for applications using text-to-speech. Proceedings of the European Conference on Speech Communication and Technology, Berlin: 2095-2098.

1992

- Barbosa, P. and G. Baily (1992). Génération automatique des P-centers. Journées d'Etudes sur la Parole, Bruxelles, Belgique: 357-361.
- Barbosa, P. and G. Baily (1992). Generating segmental duration by P-centers. Fourth Rhythm Workshop: Rhythm Perception and Production, Bourges, France, Ville de Bourges: 163-168

1991

- Guerti, M. and G. Baily (1991). Synthesis-by-rule using COMPOST: modelling resonance trajectories. EUROSPEECH, Genova - Italy: 43-46.
- Baily, G. and M. Guerti (1991). Synthesis-by-rule for French. 12th International Congress of Phonetic Sciences, Aix-en-Provence, France: 506-509.
- Alissali, M. and G. Baily (1991). COMPOST: un serveur de synthèse multilingue. 8e Congrès sur la Reconnaissance de Formes et l'Intelligence Artificielle, Lyon-Villeurbanne: 183-192.

1990

- Yé, H., S. Wang, G. Baily and F. Robert (1990). Exploration of temporal processing of a sequential network for speech parameter estimation. Proceedings of Applications of Artificial Neural Networks, Orlando, Florida: 16-20.
- Wang, H., G. Baily and D. Tuffelli (1990). Automatic segmentation and alignment of continuous speech based on the temporal decomposition model. Proceedings of the International Conference on Speech and Language Processing, Kobe, Japan: 457-460.
- Barbe, T. and G. Baily (1990). Evaluation d'un détecteur de fréquence fondamentale du signal microphonique par comparaison à une référence laryngographique. Journées d'Etudes sur la Parole, Montréal: 165-169.

- Baily, G. and M. Guerti (1990). Anticipation et rétention dans les mouvements vocaliques en Français. Journées d'Etudes sur la Parole, Montréal - Canada: 292-295.
- Baily, G., T. Barbe and H. Wang (1990). Automatic labelling of large prosodic databases: tools, methodology and links with a text-to-speech system. ETRW Workshop on Speech Synthesis, Autrans - France: 201-204.

1989 and before

- Baily, G. and A. Tran (1989). COMPOST: a rule-compiler for speech synthesis. European Conference on Speech Communication and Technology: 136-139.
- Baily, G., P.-F. Marteau and C. Abry (1989). A new algorithm for temporal decomposition of speech. Application to a numerical model of coarticulation. IEEE International Conference on Acoustics, Speech, and Signal Processing, Glasgow, Scotland: 508-511.
- Marteau, P.-F., G. Baily and M.-T. Janot-Giorgetti (1988). Stochastic model of diphone-like segments based on trajectory concepts. IEEE International Conference on Acoustics, Speech, and Signal Processing, New York - USA: 615-618.
- Baily, G., G. Murillo, O. A. Dakkak and B. Guérin (1988). A text-to-speech synthesis system for French by formant synthesis. 7th FASE Symposium: 225-260.
- Dakkak, O. A., G. Murillo, G. Baily and B. Guérin (1987). Using Contextual Information in View of Formant Analysis Improvement. Recent advances in Speech Understanding and dialog systems, Bad Windsheim - Germany, NATO ASI Series
- Dakkak, O. A., G. Murillo and G. Baily (1987). Automatic extraction of formant parameters using a-priori knowledge. IASTED, Applied Control Filtering and Signal Processing, Geneva – Switzerland
- Baily, G. and J. Liu (1987). Détection d'indices par quantification vectorielle et réseaux Markoviens. Journées d'Etudes sur la Parole, Hammamet - Tunisie, GALF: 60-63.
- Baily, G. (1986). Détection du fondamental par AMDF et programmation dynamique. Journées d'Etudes sur la Parole, Aix-en-Provence - France, GALF: 285-288.
- Baily, G. (1986). Un modèle de congruence relationnel pour la synthèse de la prosodie du français. Journées d'Etudes sur la Parole, Aix-en-Provence - France, GALF: 75-78.

Conférences internationales sans comité de lecture

- Laboissière, R., J.-L. Schwartz and G. Baily (1991). Motor control for speech skills: A connectionist approach. Proceedings of the 1990 Connectionist Models Summer School. D. S. Touretzky, J. L. Elman, T. J. Sejnowski and G. E. Hinton. San Mateo, CA, Morgan Kaufmann: 319-327
- Wang, H., G. Baily and D. Tuffelli (1990). Automatic segmentation and alignment of continuous speech based on the temporal decomposition model. Journal of the Acoustical Society of America: S106.

- Baily, G., M. Jordan, M. Mantakas, J.-L. Schwartz, M. Bach and M. Olesen (1990). Simulation of vocalic gestures using an articulatory model driven by a sequential neural network. Journal of the Acoustical Society of America: S105.

Conférences nationales sans comité de lecture

- Alami, R., Baily, G., Brèthes, L., Chatila, R., Clodic, A., Crowley, J., Danès, P., Elisei, F., Fleury, S., Herrb, M., Lerasle, F., and Menezes, P. (2005) HR+: Towards an interactive autonomous robot. in Journées du programme interdisciplinaire ROBEA. Montpellier - France.
- Alami, R., G. Baily and J. L. Crowley (2004). HR+: Pour une interaction homme-robot autonome. Journées du programme interdisciplinaire ROBEA, Toulouse – France.
- Bas, P., J. Lienard, J.-M. Chassery, D. Beautemps and G. Baily (2003). Artus: animation réaliste par tatouage audiovisuel à l'usage des sourds. Journée Nationale sur « Image et Signal pour le Handicap », Paris.
- Niswar, A., G. Baily and K. Kroschel (2003). Construction of an individualized visual speech synthesizer from orthogonal 2D images. Institute for Automation and Robotics, Duisburg – Germany.
- Alami, R., G. Baily and J. L. Crowley (2002). HR+: Pour une interaction homme-robot autonome. Journées du programme interdisciplinaire ROBEA, Toulouse - France: 39-40.
- Elisei, F., G. Baily, M. Odisio and P. Badin (2001). Clones parlants vidéo-réalistes: application à l'interprétation de FAP-MPEG4. CORESA, Dijon - France: 145-148.
- Odisio, M., F. Elisei, G. Baily and P. Badin (2001). Clones parlants vidéo-réalistes: application à l'analyse de messages audiovisuels. CORESA, Dijon - France: 141-144.
- Baily, G., F. Elisei and P. Badin (2001). Télécommunications virtuelles et clones parlants. ASTI, La Villette - France: 61.
- Baily, G., L. Revéret, P. Borel and P. Badin (2000). Hearing by eyes thanks to the "labiophone": exchanging speech movements. COST254 workshop: Friendly Exchanging Through The Net, Bordeaux – France.
- Rilliard, A., V. Aubergé, G. Baily and Y. Morlec (1997). Vers une mesure de l'information linguistique véhiculée par la prosodie. 1ères JST FRANCIL, Avignon-France: 481-487.
- Morlec, Y., G. Baily and V. Aubergé (1997). Apprentissage automatique d'un module de génération multistyle de l'intonation. 1ères JST FRANCIL, Avignon-France: 407-412.
- d'Alessandro, C., V. Aubergé, G. Baily, F. Béchet, P. Boula de Mareuil, S. Foukia, J.-P. Goldman, J. F. Isabelle, E. Keller, A. Marchal, P. Mertens, V. Pagel, D. O'Shaughnessy, G. Richard, M. H. Talon, E. Wehrli and F. Yvon (1997). Vers l'évaluation de systèmes de synthèse de parole à partir du texte en français. 1ères JST Francil de l'AUPEL-UREF, Avignon - France: 393-398.
- Baily, G. (1995). Pistes de recherches en synthèse de la parole. École Thématique: fondements et perspectives en traitement automatique de la parole. H. Méloni. Marseille - Luminy - France, Université d'Avignon et des Pays de Vaucluse: 211-220.

- Laboissière, R., J.-L. Schwartz and G. Bailly (1992). Modélisation du contrôle moteur en production de la parole: vers un "robot parlant". Cinquième Colloque de l'ARC, Nancy, France: 115-124.
- Bailly, G., M. Bach, M. Olesen, J.-L. Schwartz and A. Morris (1990). Génération de trajectoires articulatoires par réseau séquentiel. 5èmes Journées NSI, Aussois - France: 191-192.
- Bailly, G. and J. Liu (1989). Détection de formants par quantification vectorielle et réseaux Markoviens. Actes du séminaire Décodage Acoustico-Phonétique, Nancy - France, Greco Dialogue Homme-Machine: 89-94.

Documents académiques

- Bailly, G. (2000). Représentations phonétiques et technologies vocales. Habilitation à Diriger des Recherches. Grenoble, Institut National Polytechnique.
- Bailly, G. (1983). Contribution à la détermination automatique de la prosodie du Français parlé à partir d'une analyse syntaxique. Établissement d'un modèle de génération, Institut National Polytechnique, Grenoble - France.

Organisation de congrès

- Bailly, G. and P. Badin (2000). Les 23èmes Journées d'Étude sur la Parole, Aussois. In Cognito. **19**: 1-2.
- Senn, P. and Bailly, G. (2003). Smart Objects Conference, Grenoble.
- Bailly, G. and J. Crowley (2005). Smart Objects and Ambient Intelligence, Grenoble.