ARTICLES IN THE PROCEEDINGS OF INTERNATIONAL CONFERENCES

REFERENCES

[1] Aymeric Capitaine, Etienne Boursier, Eric Moulines, Michael I Jordan, and Alain Oliviero Durmus. Prediction-aware learning in multi-agent systems. In *Forty-second International Conference on Machine Learning*, volume 267, pages 6699–6725, 2025.

[2] Paul Mangold, Alain Oliviero Durmus, Aymeric Dieuleveut, and Eric Moulines. Scaffold with stochastic gradients: New analysis with linear speed-up. In *Forty-second International Conference on Machine Learning*, volume 267, pages 42902–42946, 2025.

[3] Antonio Ocello, Daniil Tiapkin, Lorenzo Mancini, Mathieu Lauriere, and Eric Moulines. Finite-sample convergence bounds for trust region policy optimization in mean field games. In *Forty-second International Conference on Machine Learning*.

[4] Yazid Janati, Badr Moufad, Mehdi Abou El Qassime, Alain Oliviero Durmus, Eric Moulines, and Jimmy Olsson. A mixture-based framework for guiding diffusion models. In *Forty-second International Conference on Machine Learning*, volume 267, pages 26830–26876, 2025.

[5] Vincent Plassier, Alexander Fishkov, Victor Dheur, Mohsen Guizani, Souhaib Ben Taieb, Maxim Panov, and Eric Moulines. Rectifying conformity scores for better conditional coverage. In *Forty-second International Conference on Machine Learning*, volume 267, pages 49459–49492, 2025.

[6] Nassima Ould Ouali, Awais Hussain Sani, Ruben Bueno, Jonah Dauvet, Tim Luka Horstmann, and Eric Moulines. Improving french synthetic speech quality via SSML prosody control. In Mourad Abbas, Tariq Yousef, and Lukas Galke, editors, *Proceedings of the 8th International Conference on Natural Language and Speech Processing, IC-NLSP 2025, Southern Denmark University, Odense, Denmark, August 25-27, 2025*, pages 302–314. Association for Computational Linguistics, 2025. URL `https://aclanthology.org/2025.icnlsp-1.30/`.

[7] Marina Sheshukova, Denis Belomestny, Alain Oliviero Durmus, Eric Moulines, Alexey Naumov, and Sergey Samsonov. Nonasymptotic analysis of stochastic gradient descent with the richardson-romberg extrapolation. In *The Thirteenth International Conference on Learning Representations, ICLR 2025, Singapore, April 24-28, 2025*. OpenReview.net, 2025. URL `https://openreview.net/forum?id=Odtr1rzQMq`.

[8] Badr Moufad, Yazid Janati, Lisa Bedin, Alain Oliviero Durmus, Randal Douc, Eric Moulines, and Jimmy Olsson. Variational diffusion posterior sampling with midpoint guidance. In *The Thirteenth International Conference on Learning Representations, ICLR 2025, Singapore, April 24-28, 2025*. OpenReview.net, 2025. URL `https://openreview.net/forum?id=6EUtjXAvmj`.

[9] Nikita Kotelevskii, Vladimir Kondratyev, Martin Takác, Eric Moulines, and Maxim Panov. From risk to uncertainty: Generating predictive uncertainty measures via bayesian estimation. In *The Thirteenth International Conference on Learning Representations, ICLR 2025, Singapore, April 24-28, 2025*. OpenReview.net, 2025. URL https://openreview.net/forum?id=cWfpt2t37q.

[10] Guokan Shang, Hadi Abdine, Yousef Khoubrane, Amr Mohamed, Yassine Abbahaddou, Sofiane Ennadir, Imane Momayiz, Xuguang Ren, Eric Moulines, Preslav Nakov, Michalis Vazirgiannis, and Eric P. Xing. Atlas-chat: Adapting large language models for low-resource moroccan arabic dialect. In *Proceedings of the 31st International Conference on Computational Linguistics, COLING 2025 - Workshops, Abu Dhabi, UAE, January 19-24, 2025*, pages 9–30. Association for Computational Linguistics, 2025. URL https://aclanthology.org/2025.loreslm-1.2/.

[11] Paul Mangold, Alain Oliviero Durmus, Aymeric Dieuleveut, Sergey Samsonov, and Eric Moulines. Refined analysis of constant step size federated averaging and federated richardson-romberg extrapolation. In Yingzhen Li, Stephan Mandt, Shipra Agrawal, and Mohammad Emtiyaz Khan, editors, *International Conference on Artificial Intelligence and Statistics, AISTATS 2025, Mai Khao, Thailand, 3-5 May 2025*, volume 258 of *Proceedings of Machine Learning Research*, pages 5023–5031. PMLR, 2025. URL https://proceedings.mlr.press/v258/mangold25a.html.

[12] Safwan Labbi, Daniil Tiapkin, Lorenzo Mancini, Paul Mangold, and Eric Moulines. Federated UCBVI: communication-efficient federated regret minimization with heterogeneous agents. In Yingzhen Li, Stephan Mandt, Shipra Agrawal, and Mohammad Emtiyaz Khan, editors, *International Conference on Artificial Intelligence and Statistics, AISTATS 2025, Mai Khao, Thailand, 3-5 May 2025*, volume 258 of *Proceedings of Machine Learning Research*, pages 1315–1323. PMLR, 2025. URL https://proceedings.mlr.press/v258/labbi25a.html.

[13] Lisa Bedin, Gabriel Cardoso, Josselin Duchateau, Remi Dubois, and Eric Moulines. Leveraging an ecg beat diffusion model for morphological reconstruction from indirect signals. In *Advances in Neural Information Processing Systems*, volume 37, pages 84409–84446, 2024.

[14] Paul Mangold, Sergey Samsonov, Safwan Labbi, Ilya Levin, Reda Alami, Alexey Naumov, and Eric Moulines. Scafflsa: Taming heterogeneity in federated linear stochastic approximation and td learning. In *Advances in Neural Information Processing Systems*, volume 37, pages 13927–13981, 2024.

[15] Maxime Vono, Vincent Plassier, Alain Durmus, Aymeric Dieuleveut, and Eric Moulines. Qlsd: Quantised Langevin stochastic dynamics for Bayesian federated learning. In *International Conference on Artificial Intelligence and Statistics*, pages 6459–6500. PMLR, 2022.

[16] Belhal Karimi, Hoi-To Wai, Eric Moulines, and Ping Li. Minimization by incremental stochastic surrogate optimization for large scale non-convex problems. In *International Conference on Algorithmic Learning Theory*, pages 606–637. PMLR, 2022.

[17] Gersende Fort, Eric Moulines, and Hoi-To Wai. Geom-spider-em: Faster variance reduced stochastic expectation maximization for non-convex finite-sum optimization. In *ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 3135–3139. IEEE, 2021.

[18] Alain Durmus, Pablo Jiménez, Éric Moulines, and SAID Salem. On riemannian stochastic approximation schemes with fixed step-size. In *International Conference on Artificial Intelligence and Statistics*, pages 1018–1026. PMLR, 2021.

[19] Aymeric Dieuleveut, Gersende Fort, Eric Moulines, and Genevieve Robin. Federated-em with heterogeneity mitigation and variance reduction. In *Advances in Neural Information Processing Systems*, volume 35, 2021.

[20] Alain Durmus, Eric Moulines, Alexey Naumov, Sergey Samsonov, Kevin Scaman, and Hoi-To Wai. Tight high probability bounds for linear stochastic approximation with fixed stepsize. In *Advances in Neural Information Processing Systems*, volume 34, 2021.

[21] Alain Durmus, Eric Moulines, Alexey Naumov, Sergey Samsonov, and Hoi-To Wai. On the stability of random matrix product with markovian noise: Application to linear stochastic approximation and td learning. In Mikhail Belkin and Samory Kpotufe, editors, *Proceedings of Thirty Fourth Conference on Learning Theory*, volume 134 of *Proceedings of Machine Learning Research*, pages 1711–1752. PMLR, 15–19 Aug 2021. URL https://proceedings.mlr.press/v134/durmus21a.html.

[22] Vincent Plassier, Maxime Vono, Alain Durmus, and Eric Moulines. Dg-lmc: A turn-key and scalable synchronous distributed MCMC algorithm via Langevin Monte Carlo within Gibbs. In *Proceedings of the 38th International Conference on Machine Learning*, volume 139 of *Proceedings of Machine Learning Research*, pages 8577–8587. PMLR, 18–24 Jul 2021. URL https://proceedings.mlr.press/v139/plassier21a.html.

[23] Achille Thin, Yazid Janati El Idrissi, Sylvain Le Corff, Charles Ollion, Eric Moulines, Arnaud Doucet, Alain Durmus, and Christian Robert. Neo: Non equilibrium sampling on the orbits of a deterministic transform. volume 34, 2021.

[24] Achille Thin, Nikita Kotelevskii, Arnaud Doucet, Alain Durmus, Eric Moulines, and Maxim Panov. Monte carlo variational auto-encoders. In *International Conference on Machine Learning*, pages 10247–10257. PMLR, 2021.

[25] Robert Mattila, Cristian Rojas, Eric Moulines, Vikram Krishnamurthy, and Bo Wahlberg. Fast and consistent learning of hidden Markov models by incorporating non-consecutive correlations. In Hal Daumé III and Aarti Singh, editors, *Proceedings of the 37th International Conference on Machine Learning*, volume 119 of *Proceedings of Machine Learning Research*, pages 6785–6796, Virtual, 13–18 Jul 2020. PMLR. URL `http://proceedings.mlr.press/v119/mattila20a.html`.

[26] Gersende Fort, Eric Moulines, and Hoi-To Wai. A stochastic path integral differential estimator expectation maximization algorithm. *Advances in Neural Information Processing Systems*, 33, 2020.

[27] Maxim Kaledin, Eric Moulines, Alexey Naumov, Vladislav Tadic, and Hoi-To Wai. Finite time analysis of linear two-timescale stochastic approximation with markovian noise, 09–12 Jul .

[28] G. Robin, Hoi-To Wai, J. Josse, O. Klopp, and E. Moulines. Low-rank interaction with sparse additive effects model for large data frames. In *Thirty-second conference on Neural Information Processing Systems (spotlight)*, 2018.

[29] N. Brosse, A. Durmus, and E. Moulines. The promises and pitfalls of Stochastic Gradient Langevin Dynamics. In *Proceedings of the thirty conference on Neural Information Processing Systems*, 2018.

[30] U. Simsekli, A. Durmus, R. Badeau, G. Richard, É. Moulines, and A. T. Cemgil. Parallelized stochastic gradient markov chain monte carlo algorithms for non-negative matrix factorization. In *2017 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 2242–2246, March 2017. doi: 10.1109/ICASSP.2017.7952555.

[31] H. T. Wai, A. Scaglione, J. Lafond, and E. Moulines. Fast and privacy preserving distributed low-rank regression. In *2017 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 4451–4455, March 2017. doi: 10.1109/ICASSP.2017.7952998.

[32] N. Brosse, A. Durmus, E. Moulines, and M. Pereyra. Sampling from a log-concave distribution with compact support with proximal Langevin monte carlo. In *Proceedings of the 30th Conference on Learning Theory, COLT 2017, Amsterdam, The Netherlands, 7-10 July 2017*, pages 319–342, 2017. URL `http://proceedings.mlr.press/v65/brosse17a.html`.

[33] P. Ilhe, F. Roueff, E. Moulines, and A. Souloumiaç. Nonparametric estimation of a shot-noise process. In *2016 IEEE Statistical Signal Processing Workshop (SSP)*, pages 1–4, June 2016. doi: 10.1109/SSP.2016.7551709.

[34] H. T. Wai, A. Scaglione, J. Lafond, and E. Moulines. A projection-free decentralized algorithm for non-convex optimization. In *2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP)*,

pages 475–479, Dec 2016. doi: 10.1109/GlobalSIP.2016.7905887.

[35] T. Nabil, E. Moulines, F. Roueff, J. M. Jicquel, and A. Girard. Maximum likelihood estimation of a low-order building model. In *2016 24th European Signal Processing Conference (EUSIPCO)*, pages 702–707, Aug 2016. doi: 10.1109/EUSIPCO.2016.7760339.

[36] J. Lafond, H. T. Wai, and E. Moulines. D-fw: Communication efficient distributed algorithms for high-dimensional sparse optimization. In *2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 4144–4148, March 2016. doi: 10.1109/ICASSP.2016.7472457.

[37] F. Weber, S. Lefebvre, E. Moulines, M. Bousquet, and N. Roux. Considering spatial information to improve anomaly detection in heterogeneous hyperspectral images. In *2016 8th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS)*, pages 1–7, Aug 2016. doi: 10.1109/WHISPERS.2016.8071733.

[38] S. Särkkä and E. Moulines. On the lp-convergence of a girsanov theorem based particle filter. In *2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 3989–3993, March 2016. doi: 10.1109/ICASSP.2016.7472426.

[39] A. Durmus, U. Simsekli, E. Moulines, R. Badeau, and Gaël Richard. Stochastic gradient richardson-romberg markov chain monte carlo. In *Advances in Neural Information Processing Systems 29: Annual Conference on Neural Information Processing Systems 2016, December 5-10, 2016, Barcelona, Spain*, pages 2047–2055, 2016. URL http://papers.nips.cc/paper/6514-stochastic-gradient-richardson-romberg-markov-c

[40] J. Lafond, O. Klopp, E. Moulines, and J. Salmon. Probabilistic low-rank matrix completion on finite alphabets. In *Advances in Neural Information Processing Systems 27: Annual Conference on Neural Information Processing Systems 2014, December 8-13 2014, Montreal, Quebec, Canada*, pages 1727–1735, 2014. URL http://papers.nips.cc/paper/5358-probabilistic-low-rank-matrix-completion-on-fin

[41] H. Braham, S. B. Jemaa, B. Sayrac, G. Fort, and E. Moulines. Low complexity spatial interpolation for cellular coverage analysis. In *2014 12th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, pages 188–195, May 2014. doi: 10.1109/WIOPT.2014.6850298.

[42] Y. Khan, B. Sayrac, and E. Moulines. Centralized self-optimization performance of eicic and aas in lte-a: A comparison. In *European Wireless 2014; 20th European Wireless Conference*, pages 1–6, May 2014.

[43] Y. Khan, B. Sayrac, and E. Moulines. Centralized self-optimization of eicic with varying traffic in lte-a. In *European Wireless 2014; 20th European Wireless Conference*, pages 1–6, May 2014.

[44] H. Braham, S. Ben Jemaa, B. Sayrac, G. Fort, and E. Moulines. Coverage mapping using spatial interpolation with field measurements. In

2014 IEEE 25th Annual International Symposium on Personal, Indoor, and Mobile Radio Communication (PIMRC), pages 1743–1747, Sept 2014. doi: 10.1109/PIMRC.2014.7136450.

[45] Y. Khan, B. Sayrac, and E. Moulines. Active antenna systems for centralized self-optimization of capacity in lte-a. In *2014 IEEE Wireless Communications and Networking Conference Workshops (WCNCW)*, pages 166–171, April 2014. doi: 10.1109/WCNCW.2014.6934880.

[46] Y. Khan, B. Sayrac, and E. Moulines. Surrogate based centralized automated optimization applied to lte mobility load balancing. In *2013 IEEE 78th Vehicular Technology Conference (VTC Fall)*, pages 1–5, Sept 2013. doi: 10.1109/VTCFall.2013.6692427.

[47] R. Douc, E. Moulines, and J. Olsson. On the long-term stability of bootstrap-type particle filters. In *16th IFAC Symposium on System Identification*, Brussels, Belgium, July 2012.

[48] S. Le Corff, G. Fort, and E. Moulines. New online em algorithms for general hidden Markov models. application to the slam problem. In *LVA-ICA*, Tel-Aviv, Israël, March 2012.

[49] A. Garivier and E. Moulines. On upper-confidence bound policies for non-stationary bandit problems. In *Algorithmic Learning Theory (ALT)*, pages 174–188, Espoo (Finlande), October 2011.

[50] F. Maire, S. Lefebvre, E. Moulines, and R. Douc. Aircraft classification with a low resolution infrared sensor. In *IEEE Statistical Signal Processing Workshop (SSP), 2011*, pages 761–764, Nice, France, September 2011.

[51] C. Lévy-Leduc, M. S. Taqqu, E. Moulines, H. Boistard, and V. Reisen. Asymptotic properties of u-processes under long-range dependence and applications. In *Bulletin of the International Statistical Institute*, Dublin, Irlande, August 2011.

[52] S. Le Corff, G. Fort, and E. Moulines. Online expectation maximization algorithm to solve the slam problem. In *SSP*, Nice, France, June 2011.

[53] O. Kouamo, C. Lévy-Leduc, and E. Moulines. Robust estimation of the memory parameter of gaussian time series using wavelets. In *IEEE International Workshop on Statistical Signal Processing*, Nice, France, June 2011.

[54] F. Bach and E. Moulines. Non-asymptotic analysis of stochastic approximation algorithms for machine learning. In *NIPS*, pages 451–459, January 2011.

[55] S. Grimoud, B. Sayrac, E. Moulines, and S. Ben Jemaa. Best sensor selection for an iterative rem construction. In *VTC-Fall*, pages 1–5, January 2011.

[56] B. Zheng, E. Moulines, and F. Abergel. Price jump prediction in limit order book. In *Market Microstructure Conference Confronting Many Viewpoints*, Paris, France, December 2010.

[57] J. Villard, P. Bianchi, E. Moulines, and P. Piantanida. High-rate quantization for the neyman-pearson detection of hidden Markov processes. In *ITW*, October 2010.

[58] S. Grimoud, S. Ben Jemaa, B. Sayrac, and E. Moulines. A rem enabled soft frequency reuse scheme. In *GLOBECOM Workshops (GC Wkshps), 2010 IEEE*, pages 819 – 823, September 2010.

[59] J. Jakubowicz, S. Lefebvre, and E. Moulines. Detecting aircraft with a low resolution infrared sensor. In *IEEE International Geoscience and Remote Sensing Symposium*, July 2010.

[60] S. Barembruch, E. Moulines, and A. Scaglione. Maximum likelihood blind deconvolution for sparse systems. In *Cognitive Information Processing*, Elba, Italie, June 2010.

[61] S. Barembruch, E. Moulines, and A. Scaglione. A sparse em algorithm for blind and semi-blind identification of doubly selective ofdm channels. In *IEEE SPAWC*, Marrakech, Maroc, June 2010.

[62] O. Kouamo, E. Moulines, and F. Roueff. Testing for homogeneity of variance in the wavelet domain. In Gabriel Surgailis Donatas Teyssière Gilles Doukhan, Paul Lang, editor, *Dependence in probability and statistics*, pages 175–205, Berlin, April 2010. Springer.

[63] A. B. H. Alaya-Feki, E. Moulines, and A. Le Cornec. Dynamic spectrum access with non-stationary multi-armed bandit. In *9th IEEE Workshop on Signal Processing Advances in Wireless Communications*, pages 416–420, Recife, BRAZIL, 2008.

[64] S. Barembruch, A. Garivier, and E. Moulines. On approximate maximum likelihood methods for blind identification: how to cope with the curse of dimensionality. In *9th IEEE Workshop on Signal Processing Advances in Wireless Communications*, pages 639–643, Recife, BRAZIL, 2008.

[65] S. Barembruch, A. Garivier, E. Moulines, and Ieee. On optimal sampling for particle filtering in digital communication. In *9th IEEE Workshop on Signal Processing Advances in Wireless Communications*, pages 634–638, Recife, BRAZIL, 2008. Barembruch, Steffen Garivier, Aurelien Moulines, E.

[66] S. Filippi, O. Cappe, F. Clerot, and E. Moulines. A near optimal policy for channel allocation in cognitive radio. In S. Girgin, M. Loth, R. Munos, P. Preux, and D. Ryabko, editors, *8th European Workshop on Reinforcement Learning*, pages 69–81, Villeneuve d Ascq, FRANCE, 2008.

[67] Z. Harchaoui, F. Bach, and E. Moulines. Testing for homogeneity with kernel fisher discriminant analysis. In *NIPS*, Vancouver, dec 2007.

[68] R. Douc, E. Moulines, and J. Olsson. Improving the performance of the two-stage sampling algorithm: a statistical perspective. In *IEEE Statistical Signal Processing Workshop 2007*, Madison, USA, aug 2007.

[69] N. Castaneda, M. Charbit, and E. Moulines. A new bearings-only tracking algorithm for ground moving targets constrained to roads. In

IEEE Workshop on Signal Processing Advances in Wireless Communications, Helsinki, Finland, jun 2007.

[70] N. Castaneda, M. Charbit, and E. Moulines. A New Approach for Mobile Localization in Multipath Scenarios. In *IEEE International Conference on Communications*, pages 4680–4685, Glasgow, Scotland, jun 2007.

[71] G. Fort, S. Meyn, E. Moulines, and P. Priouret. ODE methods for Markov chain stability with applications to MCMC. In *Value-Tools'2006*, Pise (Italie), oct 2006.

[72] J. Olsson, O. Cappé, R. Douc, and E. Moulines. On the use of sequential monte carlo methods for approximating smoothing functionals, with application to fixed parameter estimation. In *Proceedings of the SMC'2006 workshop, European Series in Applied and Industrial Mathematics*, Oxford, UK, jul 2006.

[73] T. Trigano, F. Roueff, E. Moulines, A. Souloumiac, and T. Montagu. Energy spectrum reconstruction for HPGe detectors using analytical pile-up correction. In *ICASSP*, volume III, pages 592–595, Toulouse, France, may 2006.

[74] M. Campedel and E. Moulines. Méthodologie de sélection de caractéristiques pour la classification d'images satellitaires. In *CAP05*, pages 107–108, Nice - France, jun 2005.

[75] O. Cappé and E. Moulines. On the use of particle filtering for maximum likelihood parameter estimation. In *European Signal Processing Conference (EUSIPCO)*, Antalya, Turkey, sep 2005.

[76] O. Cappé and E. Moulines. Recursive computation of the score and observed information matrix in hidden Markov models. In *IEEE Workshop on Statistical Signal Processing (SSP'05)*, pages 469–481, Bordeaux, France, jul 2005.

[77] R. Douc, O. Cappé, and E. Moulines. Comparison of resampling schemes for particle filtering. In *4th International Symposium on Image and Signal Processing and Analysis (ISPA)*, Zagreb, Croatia, sep 2005.

[78] F. Clérot, F. Fessant, O. Collin, O. Cappé, and E. Moulines. A simple mixture model for unsupervised text categorisation. In *Fifth International Conference on Data Mining*, Malaga, Spain, sep 2004.

[79] P. Cheung and E. Moulines. Global sampling for filtering over discrete state space. In *IEEE Workshop on Statistical Signal Processing*, Saint Louis, MO, 2003.

[80] E. Moulines, P. Priouret, and François Roueff. Recursive estimation of locally stationary processes. In *IEEE Workshop on Statisitical Signal Processing*, Saint Louis, MO, 2003.

[81] R. Douc, E. Moulines, and Tobias Rydén. Asymptotic properties of the maximum likelihood estimator in autoregressive models with Markov regime. In *Proceedings INFORMS 2001*, 2001.

[82] C. Hurvich, E. Moulines, and P. Soulier. An adaptive broadband estimator of the fractional differencing coefficient. In *International Conference on Acoustics, Speech and Signal Processing*, pages 3417–3420, 2001.

[83] S. Lasaulce, P. Loubaton, E. Moulines, and S. Buljore. Training-based channel estimation and denoising for the UMTS-TDD mode. In *Vehicular Technology Conference (VTC)*, volume 3, pages 1908–1911, 2001.

[84] V. Buchoux, O. Cappé, and E. Moulines. Turbo multiuser detection for coded DS-CDMA systems. A Gibbs sampling approach. In *Conference Records of Thirty-Fourth Asilomar Conference on Signals, Systems and Computers*, pages 1426–1430, 2000.

[85] S. Lasaulce, P. Loubaton, and E. Moulines. Performance of the subspace based semi-blind technique in the UMTS TDD mode context. In IEEE, editor, *International Conference on Acoustics Speech and Signal Processing*, pages 2481–2484, 2000.

[86] L. Perros-Meilhac, E. Moulines, and P. Chevalier. Blind multipath parameters estimation with an unknown pulse shape filter. In *Conference Records of the Thirty-Fourth Asilomar Conference on Signals, Systems and Computers*, volume 1, pages 600–604, 2000.

[87] V. Buchoux, E. Moulines, O. Cappé, and A. Gorokhov. Semi-blind subspace techniques for digital communication systems. In *IEEE Workshop on Signal Processing Applied to Wireless Communications*, pages 58–61, 1999.

[88] S. Lasaulce, Karine Gosse, P. Loubaton, and E. Moulines. Performance of semi-blind receiver for the uplink UMTS-TDD mode. In *Vehicular Technology Conference*, volume 2, pages 988–992. IEEE, 1999.

[89] P. Loubaton and E. Moulines. Application of blind second order statistics MIMO identification methods to the blind CDMA forward link channel estimation. In *International Conference On Acoustics Speech and Signal Processing*, volume 5, pages 2543–2546, 1999.

[90] L. Perros-Meilhac, P. Duhamel, P. Chevalier, and E. Moulines. Blind knowledge based algorithms based on second order statistics. In *International Conference on Acoustics Speech and Signal Processing*, volume 5, pages 2901–2904, 1999.

[91] L. Perros-Meilhac, E. Moulines, P. Chevalier, and P. Duhamel. A parametric subspace-based blind identification of a SIMO-FIR with unknown channel order. In IEEE, editor, *Signal Processing Advances in Wireless Communications (SPAWC)*, pages 227–230, 1999.

[92] O. Cappe, V. Buchoux, and E. Moulines. Quasi-newton method for maximum likelihood estimation of hidden Markov model. In *International Conference on Acoustics Speech and Signal Processing*, pages 2265–2269, 1998.

[93] O. Cappé, R. Douc, E. Moulines, and Christian Robert. Bayesian analysis of overdispersed count data with applications to teletraffic monitoring. In R. Payne Green and P., editors, *Proceedings of COMPSTAT*,

pages 215–220, Bristol, 1998.

[94] G. Fay, E. Moulines, O. Cappe, and Frédéric Bimbot. Polynomial quasi-harmonic models for speech analysis and synthesis. In *International Conference on Acoustics Speech and Signal Processing*, volume 2, pages 865–869, 1998.

[95] G. Fay, E. Moulines, and P. Soulier. Log-periodogram regression for non-parametric estimation of spectral density for a non-gaussian series. In *IEEE Signal Processing Workshop on Statistical Signal and Array Processing.*, pages 332–335, 1998.

[96] G. Fort, O. Cappe, E. Moulines, and P. Soulier. Optimization via simulation for maximum likelihood estimation in incomplete data models. In *IEEE Signal Processing Workshop on Statistical Signal and Array Processing*, pages 80–83, 1998.

[97] G. Fort, E. Moulines, and P. Soulier. On the convergence of iterated random maps with applications to the MCEM algorithm. In R. Payne Green and P., editors, *Proceedings Computational Statistics Workshop*, pages 317–322, 1998.

[98] E. Moulines, P. Priouret, and R. Aguech. On a perturbation approach for the analysis of stochastic tracking algorithms. In *International Conference on Acoustics Speech and Signal Processing*, pages 1681–1685, 1998.

[99] V. Buchoux, O. Cappé, E. Moulines, and Sylvie Mayrargue. On the feasability of the blind and the semi-blind techniques in digital communication systems. In *COST 254 Workshop on Emerging Techniques for Communication Terminals*, Toulouse, 1997.

[100] E. Moulines, J.-F. Cardoso, and Elisabeth Gassiat. Maximum likelihood for blind separation and deconvolution of noisy signals using mixture models. In *International Conference on Acoustics Speech and Signal Processing*, pages 3617–3620, 1997.

[101] E. Moulines and P. Soulier. Fractional exponential models for fractal point processes. In *31'st Asilomar conference on Signals, Systems and Computers*, pages 1107–1110, 1997.

[102] Roxana Ojeda, J.-F. Cardoso, and E. Moulines. Asymptotically invariant gaussianity test for causal invertible time series. In *International Conference on Acoustics Speech and Signal Processing*, pages 3713–3716, 1997.

[103] M. Oudot, O. Cappé, and E. Moulines. Estimation robuste de l'enveloppe spectrale d'un signal harmonique bruité. In *16ème colloque Gretsi sur le traitement du signal et des images*, Grenoble, 1997.

[104] M. Oudot, O. Cappé, and E. Moulines. Estimation of the spectral envelope of mixed spectrum signals using a penalized likelihood criterion. In *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, pages 1–4. IEEE, 1997.

[105] M. Oudot, O. Cappé, and E. Moulines. Robust estimation of the spectral envelope for "harmonics + noise" models. In *IEEE Workshop*

on speech coding for telecomunications, pages 11–12, Pocono Manor, 1997.

[106] J.-F. Cardoso, P. Loubaton, and E. Moulines. On weighted subspace estimates in system identification. In *Workshop on Statistical Signal and Array processing*, pages 352–355, Corfu, 1996.

[107] A. Gorokhov, P. Loubaton, and E. Moulines. Second order blind equalization in multiple input multiple output FIR systems: a weighted least squares approach. In *International Conference on Acoustics Speech and Signal Processing*, volume 5, pages 2417–20, 1996.

[108] E. Moulines, J.-F. Cardoso, A. Gorokhov, and P. Loubaton. Subspace methods for blind identification of SIMO-FIR systems. In *International Conference on Acoustics Speech and Signal Processing*, volume 5, pages 2449–52, 1996.

[109] K. Abed-Meraim, P. Duhamel, David Gesbert, P. Loubaton, Sylvie Mayrargue, E. Moulines, and Dirk Slock. Prediction error methods for time-domain blind identification. In *International Conference on Acoustics Speech and Signal Processing*, volume 3, pages 1968–1972, 1995.

[110] O. Cappé, Jean Laroche, and E. Moulines. Regularized estimation of cepstrum envelope from discrete frequency points. In *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, pages 213–216, 1995.

[111] M. Lavielle, E. Moulines, and J.-F. Cardoso. On a stochastic approximation version of the EM algorithm. In *IEEE Workshop on Higher-Order Statistics*, pages 61–66, Aiguablava, 1995.

[112] Y. Stylianou, O. Cappé, and E. Moulines. Statistical methods for voice quality transformation. In *EUROSPEECH*, pages 447–450, 1995.

[113] Y. Stylianou, Jean Laroche, and E. Moulines. High-quality speech modification based on a harmonic+noise model. In *EUROSPEECH*, pages 451–454, 1995.

[114] K. Abed-Meraim, A. Belouchrani, J.-F. Cardoso, and E. Moulines. Asymptotic performance of second order blind separation. In *International Conference on Acoustics Speech and Signal Processing*, volume 4, pages 277–280, 1994.

[115] K. Abed-Meraim and E. Moulines. A maximum likelihood solution to blind identification of multichannel FIR filters. In *EUSIPCO*, pages 1011–1015, 1994.

[116] J.-F. Cardoso and E. Moulines. How much more DOA information in higher-order statistics ? In *IEEE Signal Processing Workshop on Statistical Signal and Array Processing*, pages 199–202, 1994.

[117] K. Choukri and E. Moulines. A general class of chi-square statistics for structural tests in stationary time-series. In *EUSIPCO*, pages 288–292, 1994.

[118] K. Choukri and E. Moulines. General class of chi-square statistics for goodness-of-fit tests for stationary time-series. In *SPIE*, pages 201–213, 1994.

[119] M. Lavielle, E. Moulines, and J.-F. Cardoso. A maximum likelihood solution to DOA estimation for discrete sources. In *IEEE Signal Processing Workshop on Statistical Signal and Array Processing*, pages 349–352, 1994.

[120] E. Moulines, P. Duhamel, J.-F. Cardoso, and Sylvie Mayrargue. Subspace methods for the blind identification of multichannel FIR filters. In *International Conference on Acoustics Speech and Signal Processing*, volume 4, pages 573–576, 1994.

[121] Alexis Perrier, E. Moulines, and Jacques Prado. Block adpative identification with predictive structure : an application to acoustic echo cancellation. In *EUSIPCO*, pages 1285–1289, 1994.

[122] A. Belouchrani, K. Abed-Meraim, J.-F. Cardoso, and E. Moulines. Second-order blind separation of correlated sources. In *International Conference on Digital Signal Processsing*, pages 346–351, 1993.

[123] J.-F. Cardoso and E. Moulines. Minimum contrast estimation with application to array processing. In *International Conference on Acoustics Speech and Signal Processing*, volume 4, pages 384–387, 1993.

[124] Jean Laroche, Y. Stylianou, and E. Moulines. Hnm: Speech modification based on harmonic plus noise model. In *International Conference on Acoustics Speech and Signal Processing*, volume 2, pages 550–553, 1993.

[125] Jean Laroche, Y. Stylianou, and E. Moulines. Hnm: A simple efficient harmonic plus noise model for speech synthesis and modifications. In *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, 1993.

[126] E. Moulines, John Dalle Molle, K. Choukri, and M. Charbit. Testing that a stationary time-series is gaussian: time-domain vs. frequency domain approach. In *IEEE Signal Processing workshop on Higher-Order Statistics (HOS)*, pages 336–341, 1993.

[127] Jacques Prado and E. Moulines. Frequency-domain adaptive filters with applications to acoustic echo cancellation. In *Workshop on Acoustic Echo Control*, pages 249–257, 1993.

[128] O. AitAmrane, E. Moulines, M. Charbit, and Y. Grenier. The Generalized Multidelay Filter: a low-delay frequency domain LMS algorithm. In *EUSIPCO*, pages 115–119, 1992.

[129] O. AitAmrane, E. Moulines, M. Charbit, and Y. Grenier. A low-delay frequency domain LMS algorithm. In *International Conference on Acoustics Speech and Signal Processing*, volume 2, pages 437–440, 1992.

[130] E. Moulines and J.-F. Cardoso. Direction finding algorithms using 4th-order statistics : asymptotic performance analysis. In *International Conference on Acoustics Speech and Signal Processing*, volume 4, pages

9–13, 1992.

[131] E. Moulines, K. Choukri, and M. Charbit. Testing that a multivariate stationary time-series is Gaussian. In *IEEE Signal Processing Workshop on Statistical Signal and Array Processing*, pages 185–188, 1992.

[132] Jacques Prado, O. AitAmrane, E. Moulines, and Y. Grenier. A novel approach to frequency-domain adaptive filtering : the generalized multi-delay filter. In *Second Workshop on Adaptive Algorithms in Communications*, pages 79–89, Bordeaux, 1992.

[133] O. AitAmrane, E. Moulines, and Y. Grenier. Identification de réponses impulsionnelles longues par gradient stochastique fréquentiel. In *Groupement de Recherches en Traitement du Signal et des Images*, pages 481–484, 1991.

[134] E. Moulines and J.-F. Cardoso. Second-order versus fourth-order MUSIC algorithms : an asymptotical statistical analysis. In *IEEE Signal Processing Workshop on Higher-Order Statistics*, pages 221–224, 1991.

[135] H. Valbret, E. Moulines, and Jean-P. Tubach. Voice transformation using PSOLA technique. In *EUROSPEECH*, pages 345–349, 1991.