

Publications by Simon Bliudze

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Journals

- [1] Simon Bliudze and Daniel Krob. A combinatorial approach to evaluation of reliability of the receiver output for BPSK modulation with spatial diversity. *Electronic Journal of Combinatorics*, 13(1):31 pages, January 2006. paper #R2.
- [2] Simon Bliudze and Joseph Sifakis. The algebra of connectors—structuring interaction in BIP. *IEEE Transactions on Computers*, 57(10):1315–1330, 2008.
- [3] Simon Bliudze and Daniel Krob. Modelling of complex systems: Systems as dataflow machines. *Fundamenta Informaticae*, 91:1–24, 2009.
- [4] Simon Bliudze and Joseph Sifakis. Causal semantics for the algebra of connectors. *Formal Methods in System Design*, 36(2):167–194, June 2010.

Conference proceedings

- [1] Simon Bliudze and Daniel Krob. Towards a functional formalism for modelling complex industrial systems. *ComPlexUs, Special Issue: Complex Systems – European Conference – November 2005 – Selected Papers – Part 1*, 2(3–4):163–176, 2004/2005.
- [2] Simon Bliudze, Nicolas Billy, and Daniel Krob. On optimal Hybrid ARQ control schemes for HSDPA with 16QAM. In *Proc. of IEEE Int. Conf. on Wireless and Mobile Computing, Networking and Communications*, volume 1, pages 121–127, August 2005.
- [3] Simon Bliudze and Daniel Krob. Performance evaluation of demodulation with diversity — a combinatorial approach III: Threshold analysis. In Camil Demetrescu, Robert Sedgewick, and Roberto Tamassia, editors, *Proc. of the 7th Workshop on Algorithm Engineering and Experiments and the 2nd Workshop on Analytic Algorithmics and Combinatorics*, pages 195–205. SIAM, January 2005.
- [4] Simon Bliudze and Joseph Sifakis. The algebra of connectors — Structuring interaction in BIP. In *Proceedings of the EMSOFT’07*, pages 11–20, Salzburg, Austria, October 2007. ACM SigBED.
- [5] Simon Bliudze and Joseph Sifakis. Causal semantics for the algebra of connectors (extended abstract). In Frank de Boer and Marcello Bonsangue, editors, *FMCO 2007*, number 5382 in LNCS, pages 179–199, Berlin Heidelberg, 2008. Springer-Verlag.
- [6] Simon Bliudze and Joseph Sifakis. A notion of glue expressiveness for component-based systems. In Franck van Breugel and Marsha Chechik, editors, *CONCUR 2008*, volume 5201 of LNCS, pages 508–522. Springer, 2008.
- [7] Mohamad Jaber, Ananda Basu, and Simon Bliudze. Symbolic implementation of connectors in BIP. In *ICE 2010: Structured Interactions*, volume 12 of *EPTCS*, pages 41–55, September 2009.
- [8] Simon Bliudze and Joseph Sifakis. Synthesizing glue operators from glue constraints for the construction of component-based systems. In Sven Apel and Ethan Jackson, editors, *10th International Conference on Software Composition*, volume 6708 of LNCS, pages 51–67. Springer, 2011.

Technical reports

- [1] Simon Bliudze. Outer loop power control. Internship report, Alcatel CIT, October 2001. Confidential.
- [2] Simon Bliudze and Daniel Krob. Modelling of complex systems I — A functional approach: Time, data and systems. Technical report, LIX, École Polytechnique, 2007.
http://www.enseignement.polytechnique.fr/informatique/chaire-systemes-complexes/IMG/pdf/modelling_of_complex_systems1.pdf.
- [3] Simon Bliudze and Joseph Sifakis. The algebra of connectors — structuring interaction in BIP. Technical Report TR-2007-3, Verimag, 2007.
<http://www-verimag.imag.fr/index.php?page=techrep-list>.
- [4] Simon Bliudze and Joseph Sifakis. Causal semantics for the algebra of connectors. Technical Report TR-2008-4, Verimag, 2008.
<http://www-verimag.imag.fr/index.php?page=techrep-list>.

PhD thesis

- [1] Simon Bliudze. *A Framework for Studying Complex Industrial Systems: An Example Based on the UMTS Infrastructure*. PhD thesis, École Polytechnique, 91128 Palaiseau cedex, France, June 2006. <http://www.bliudze.me/simon>.