References

[1] Law, A. *Simulation modeling and analysis*. Boston, MA [etc.]: McGraw-Hill, (2007).

[2] Maria, A. Introduction to modeling and simulation. In *Proceedings of the 29th conference on Winter simulation*, 7–13. IEEE Computer Society, (1997).

[3] Gauch Jr, H. *Scientific method in practice*. Cambridge University Press, (2002).

[4] Maple, C., Guo, L., and Zhang, J. Parallel genetic algorithms for third generation mobile network planning. In *Parallel Computing in Electrical Engineering, 2004. PARELEC 2004. International Conference on*, 229–236. IEEE, (2004).

[5] Crainic, T., Di Chiara, B., Nonato, M., and Tarricone, L. Tackling electrosmog in completely configured 3g networks by parallel cooperative metaheuristics. *Wireless Communications, IEEE* **13**(6), 34–41 (2006).

[6] Soldani, D., Alford, G., Parodi, F., and Kylvaja, M. An autonomic framework for self-optimizing next generation mobile networks. In *World of Wireless, Mobile and Multimedia Networks, 2007. WoWMoM 2007. IEEE International Symposium on a*, 1–6. IEEE, (2007).

[7] Gorder, P. Multicore processors for science and engineering. *Computing in science & engineering* **9**(2), 3–7 (2007).

[8] Wen-mei, W. *GPU Computing Gems Emerald Edition: Applications of GPU Computing Series*. Morgan Kaufmann, (2011).

[9] 3GPP. Functionality in early GSM releases. http://www.3gpp.org, (accessed May 2009).

[10] 3GPP. General UMTS architecture, v4.0.0. http://www.3gpp.org, (accessed May 2009).

[11] Amaldi, E., Capone, A., and Malucelli, F. Radio planning and coverage optimization of 3G cellular networks. *Wireless Networks* **14**(4), 435–447 August (2007).

[12] Siomina, I. and Yuan, D. Minimum pilot power for service coverage in WCDMA networks. *Wireless Networks* **14**(3), 393–402 June (2007).

[13] Chen, L. and Yuan, D. Automated planning of CPICH power for enhancing HSDPA performance at cell edges with preserved control of R99 soft-handover. *Proceedings of IEEE ICC'08* (2008).

[14] Chen, L. and Yuan, D. Fast algorithm for large-scale UMTS coverage planning with soft-handover consideration. In *Proceedings of the 2009 International Conference on Wireless Communications and Mobile Computing: Connecting the World Wirelessly*, 1488–1492. ACM, (2009).

[15] Gordejuela-Sánchez, F., López-Pérez, D., and Zhang, J. A two-step method for the optimization of antenna azimuth/tilt and frequency planning in OFDMA multihop networks. In *Proceedings of the 2009 International Conference on Wireless Communications and Mobile Computing: Connecting the World Wirelessly*, 1404–1409. ACM, (2009).

[16] Siomina, I. and Yuan, D. Enhancing HSDPA performance via automated and large-scale optimization of radio base station antenna configuration. In *Proc. 67th IEEE Vehicular Technology Conference (VTC2008-Spring)*, 2061–2065, (2008).

[17] Fledderus, E. Models and Simulations for Network planning and Control of UMTS. http://momentum.zib.de, (accessed April 2010).