



Learning Based Techniques for Inter-cell Interference Coordination in LTE-Advanced Heterogeneous Networks

By Meryem Simsek

Shaker Verlag Sep 2013, 2013. Taschenbuch. Condition: Neu. Neuware -

Driven by network densification and increasing number of smart-phones, tablets, and netbooks, mobile operators are compelled to find viable solutions to improve their network performance in a cost-effective manner, and tap into new revenue streams. Heterogeneous network deployments combining a range of cell sizes (femto, pico, relays) with existing macrocells are expected to become cornerstones for future cellular networks and beyond, aiming at substantially higher data rates and maximum spatial reuse by decreasing the distance between transmitters and receivers. However, these future generation wireless networks face many challenges out of which intercell interference is crucial. It is the key requirement of small cells not to interfere the existing macrocellular system while at the same time guaranteeing their own receivers' quality of service requirements. Hence, attention has been recently turned into self-organizing networks that permit improvements in system performance by automated intercell interference control and reductions in operational expenses. By considering these self-organizing capabilities, the main focus of this thesis is on learning based intercell interference coordination techniques in heterogeneous networks overlaid by small cells (femtocells and picocells). While femtocells are modeled in a totally decentralized manner without any information exchange with the macrocellular network, picocells exchange information by using existing interfaces. Both types of heterogeneous networks are modeled as multi-agent systems, in which intercell interference coordination is performed based on reinforcement learning. In case...



[READ ONLINE](#)
[3.79 MB]

Reviews

It is great and fantastic. Better than never, though I am quite late in start reading this one. Its been written in an extremely simple way and is particularly only right after I finished reading this ebook where actually changed me, affect the way I really believe.

-- **Orin Blick**

An extremely awesome pdf with lucid and perfect reasons. I was able to comprehend everything using this published e pdf. You can expect to like how the blogger compose this pdf.

-- **Miss Peggie Sanford I**

Other Books



[Daddyteller: How to Be a Hero to Your Kids and Teach Them What's Really by Telling Them One Simple Story at a Time](#)

Createspace, United States, 2013. Paperback. Book Condition: New. 214 x 149 mm. Language: English . Brand New Book ***** Print on Demand *****.You have the power, Dad, to influence and educate your child. You can teach your child about a virtue or...



[Learn em Good: Improve Your Child's Math Skills: Simple and Effective Ways to Become Your Child's Free Tutor Without Opening a Textbook](#)

Createspace, United States, 2010. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.From a certified teacher and founder of an online tutoring website-a simple and effective guide for parents and students to...



[Learning to Walk with God: Salvation: Stories and Lessons for Children about the Timeless Truths Revealed in the Bible](#)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.The Ultimate Book of Lessons and Stories about the Ageless Truths in God's Word The best way to teach...



[Is It Ok Not to Believe in God?: For Children 5-11](#)

Createspace, United States, 2014. Paperback. Book Condition: New. Large Print. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.A short story about an 8 year old girl called Tia, who is bullied at school because she...



[No problem child issues: the secret dedicated to children's learning](#)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Pages Number: 181 Publisher: China Economic Times Press (formerly the China Audit Publishing House) Pub. Date :2009-1-1. Now. under the pressure...



[Good Nights Now: A Parent's Guide to Helping Children Sleep in Their Own Beds Without a Fuss! \(Goodparentgoodchild\)](#)

Good Parent Good Child, United States, 2011. Paperback. Book Condition: New. 226 x 150 mm. Language: English . Brand New Book ***** Print on Demand *****.GoodParentGoodChild books, give parents successful techniques to solve specific parenting challenges. They are written from the perspectives...