

Coordinated Multi-Point in Mobile Communications: From Theory to Practice

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A self-contained guide to coordinated multi-point (CoMP), this comprehensive book covers everything from theoretical basics to practical implementation. Addressing a wide range of topics, it highlights the potential gains of CoMP, the fundamental degrees of freedom involved and the key challenges of using CoMP in practice. The editors and contributors bring unique real-world experience from running the world's first and largest test beds for LTE-Advanced, and recent field trial results from these tests are presented. With detailed insight into the realistic potential of CoMP as a key technology for LTE-Advanced and beyond, this is a must-read resource for professionals and students who want the big picture on CoMP or require in-depth knowledge of how to build cellular communication systems for the future. Exclusive! View these videos of the authors discussing this book: Professor Ekram Hossain discusses the book:
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Editorial Review

Review
"Interference is the limiting factor in cellular communications and smart coordination of transmission can lead to significant improvements in quality of service. This book provides a strong outline and lays out some of the fundamental assumptions and theoretical models to treat the subject and supports the theory with result from system-level test benches and field measurements. I recommend this book to everyone interested in the topic." Siavash M. Alamouti, Vodafone Group R&D Director

"Coordinated Multi-Point in Mobile Communications is a must read for system engineers, students, and wireless operations in the important emerging area of CoMP. It is a comprehensive effort that balances the underlying theory with the practical guidelines in all aspects of the technology from theory to field test." Gee Rittenhouse, Head of Research, Bell Labs

About the Author
Patrick Marsch was the technical project coordinator of the research project EASY-C, where the world's largest research test beds for LTE-Advanced were established and the first live demonstrations of CoMP were performed. He received his Dr-Ing degree from Technische Universität Dresden, where he later headed the system level group at the Vodafone Chair, focusing on optimizing spectral efficiency and energy efficiency in heterogeneous cellular deployments. He currently heads a radio research team within Nokia Siemens Networks in Wroclaw, Poland.

Gerhard P. Fettweis is the Vodafone Chair Professor at Technische Universität Dresden, with 20 companies from around the world currently sponsoring his research on wireless transmission and chip design. An IEEE Fellow, he runs the world's largest cellular research test beds, coordinated the EASY-C project and has received numerous awards. He began his career at IBM Research and has since developed nine start-up companies.

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