Preface

The next generation wireless network is envisioned to be heterogeneous, where different Radio Access Technologies (RATs) coexist in the same coverage area. A major challenge of the heterogeneous network is the Radio Resource Management (RRM) strategy. Common RRM (CRRM) was proposed in the literature to jointly manage radio resources among different RATs in an optimized way. This book discusses the basic idea of CRRM, especially on the RAT selection part of CRRM. Two interaction functions (information reporting function and RRM decision support function) and four interaction degrees (from low to very high) of CRRM are introduced. Four possible CRRM topologies (CRRM server, integrated CRRM, Hierarchical CRRM, and CRRM in user terminals) are described. Different RAT selection algorithms, including single criterion and multiple criteria-based algorithms are presented and compared. Their advantages and disadvantages are analyzed.

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