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1. INTRODUCTION

The higher data rate, better spectral efficiency and maximum degree of freedom of Multiple Input Multiple Output (MIMO) technology has made it a key technology for next generation wireless standards. In practice multiple transmit antennas are used to increase the transmission rate. When multiple receiving antennas improves reliability and communication rates. In MIMO system improves performance. Designing a low-complexity high performance detector is a hard task.

Thanks to the development of system design, in which algorithm and hardware developments can be separated, provides engineers with more knowledge of both algorithms and architectures to realize such