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Sommario/riassunto	This book constitutes the thoroughly refereed post-workshop proceedings of the 5th Workshop on Model Checking and Artificial Intelligence, MOCHART 2008, held in Patras, Greece, in July 2008 as a satellite event of ECAI 2008, the 18th biannual European conference on Artificial Intelligence. The 9 revised full workshop papers presented together with 2 invited lectures have gone through two rounds of reviewing and improvement and were carefully selected for inclusion in the book. The workshop covers all ideas, research, experiments and tools that relate to both MC and AI fields.