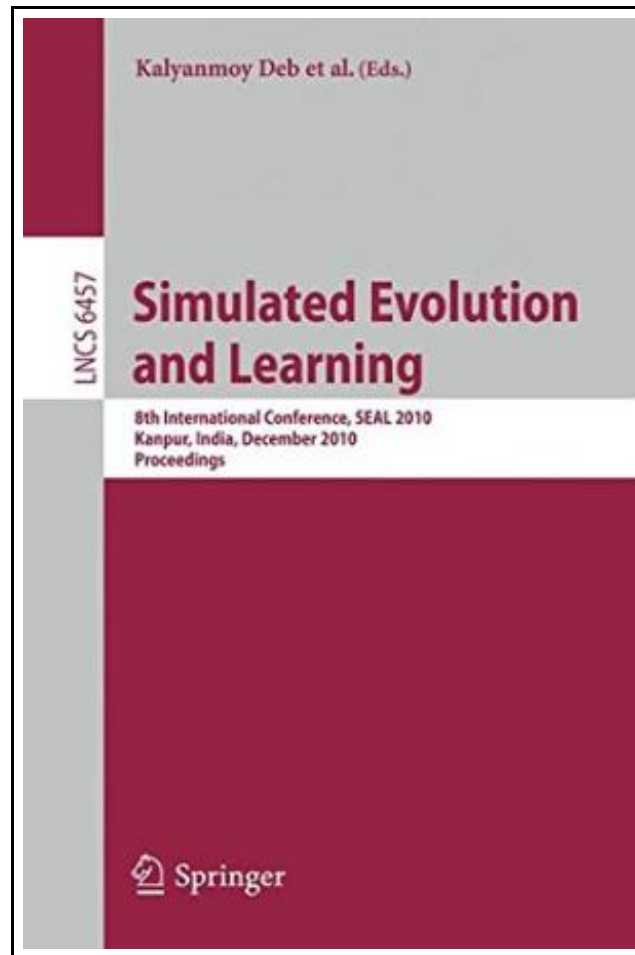


## Simulated Evolution and Learning



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Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Paperback. Book Condition: New. Paperback. 719 pages. Dimensions: 9.0in. x 6.1in. x 1.0in. This LNCS volume contains the papers presented at the 8th Simulated Evolution and Learning (SEAL 2010) Conference held during December 14, 2010 at the Indian Institute of Technology Kanpur in India. SEAL is a prestigious international conference series in evolutionary optimization and machine learning. This biennial event started in Seoul, South Korea in 1996 and was thereafter held in Canberra, Australia in 1998, Nagoya, Japan in 2000, Singapore in 2002, Busan, South Korea in 2004, Hefei, China in 2006 and Melbourne, Australia in 2008. SEAL 2010 received 141 paper submissions in total from 30 countries. After a rigorous peer-review process involving 431 reviews in total (averaging a little more than 3 reviews per paper), 60 full-length and 19 short papers were accepted for presentation (both oral and poster) at the conference. The full-length papers alone correspond to a 42.6% acceptance rate and short papers add another 13.5%. The papers included in this LNCS volume cover a wider range of topics in simulated evolution and learning. The accepted papers have been classified into the following main categories: (a) theoretical developments, (b) evolutionary algorithms and applications, (c) learning methodologies, (d) multi-objective evolutionary algorithms and applications, (e) hybrid algorithms and (f) industrial applications. The conference featured three distinguished keynote speakers. Narendra Karmarkar's talk on Beyond Convexity: New Perspectives in Computational Optimization focused on providing new theoretical concepts for non-convex optimization and indicated a rich connection between optimization and mathematical physics and also showed a deep significance of advanced geometry to optimization. The advancement of optimization theory for non-convex problems is beneficial for meta-heuristic optimization algorithms such as evolutionary algorithms. Manindra Agrawal's talk on PRIMES is in P provided a much-improved version of his celebrated and ground-breaking 2002 work on polynomial time algorithm for testing prime numbers. The theoretical computation work presented in this keynote lecture should be motivating for the evolutionary optimization and machine learning community at large. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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