

1. Record Nr.	UNISA996465599703316
Titolo	Swarm, Evolutionary, and Memetic Computing [[electronic resource]] : 6th International Conference, SEMCCO 2015, Hyderabad, India, December 18-19, 2015, Revised Selected Papers / / edited by Bijaya Ketan Panigrahi, Ponnuthurai Nagaratnam Suganthan, Swagatam Das, Suresh Chandra Satapathy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-48959-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XI, 288 p. 117 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 9873
Disciplina	006.3
Soggetti	Computer science Artificial intelligence Algorithms Pattern recognition systems Computer networks Software engineering Theory of Computation Artificial Intelligence Automated Pattern Recognition Computer Communication Networks Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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This volume constitutes the thoroughly refereed post-conference proceedings of the 6th International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2015, held in Hyderabad, India, in December 2015. The 23 full papers presented in this volume were carefully reviewed and selected from 40 submissions for inclusion in the proceedings. The papers cover a wide range of topics in swarm, evolutionary, memetic and other intelligent computing algorithms and their real world applications in problems selected from diverse domains of science and engineering.

2. Record Nr.	UNINA9910146455503321
Titolo	ACM transactions on the web
Pubbl/distr/stampa	New York, N.Y., : Association for Computing Machinery
ISSN	1559-114X
Disciplina	025.04
Soggetti	World Wide Web Web Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed