

MARC VIEW FOR ISBN 9783319312040 (ISBNPlus.com)

LEADER 08274nam a22005775i 4500

001 978-3-319-31204-0

003 DE-He213

005 20160322180153.0

007 cr nn 008mamaa

008 160322s2016 gw | s |||| 0|eng d

020 \$a 9783319312040\$9978-3-319-31204-0

024 7 \$a 10.1007/978-3-319-31204-0\$2doi

050 4\$a QA76.9.A43

072 7\$a UMB\$2bicssc

072 7\$a COM051300\$2bisacsh

082 04\$a 005.1\$223

245 10\$a Applications of Evolutionary Computation\$h[electronic resource] :\$b19th European Conference, EvoApplications 2016, Porto, Portugal, March 30 -- April 1, 2016, Proceedings, Part I /\$cedited by Giovanni Squillero, Paolo Burelli.

250 \$a 1st ed. 2016.

264 1\$a Cham :\$bSpringer International Publishing :\$blmprint: Springer,\$c2016.

300 \$a XXV, 849 p. 252 illus.\$bonline resource.

336 \$a text\$btxt\$2rdacontent

337 \$a computer\$bc\$2rdamedia

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520 \$a The two volumes LNCS 9597 and 9598 constitute the refereed conference proceedings of the 19th European Conference on the Applications of Evolutionary Computation, EvoApplications 2016, held in Porto, Portugal, in March/April 2016, co-located with the Evo* 2016 events EuroGP, EvoCOP, and EvoMUSART. The 57 revised full papers presented together with 17 poster papers were carefully reviewed and selected from 115 submissions. EvoApplications 2016 consisted of the following 13 tracks: EvoBAFIN (natural computing methods in business analytics and finance), EvoBIO (evolutionary computation, machine learning and data mining in computational biology), EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and complex systems), EvoENERGY (evolutionary computation in energy applications), EvoGAMES (bio-inspired algorithms in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defence applications), EvoROBOT (evolutionary robotics), and EvoSTOC (evolutionary algorithms in stochastic and dynamic environments).

650 0\$a Computer science.

650 0\$a Algorithms.

650 0\$a Computer science\$xMathematics.

650 0\$a Data mining.

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650 0\$a Pattern recognition.

650 0\$a Application software.

650 14\$a Computer Science.

650 24\$a Algorithm Analysis and Problem Complexity.

650 24\$a Artificial Intelligence (incl. Robotics).

650 24\$a Computer Applications.

650 24\$a Pattern Recognition.

650 24\$a Data Mining and Knowledge Discovery.

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700 1 \$a Squillero, Giovanni.\$editor.

700 1 \$a Burelli, Paolo.\$eeditor.
710 2 \$a SpringerLink (Online service)
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830 0\$a Lecture Notes in Computer Science,\$x0302-9743 ;\$v9597
856 40\$u<http://dx.doi.org/10.1007/978-3-319-31204-0>
912 \$a ZDB-2-SCS
912 \$a ZDB-2-LNC
950 \$a Computer Science (Springer-11645)