1. Record Nr.   UNINA9910483447803321

   Titolo   Engineering self-organising systems : third international workshop,
                       ESOA 2005, Utrecht, The Netherlands, July 25, 2005 : revised selected
                       papers / / Sven A. Brueckner ... [et al.] (eds.)

   Pubbl/distr/stampa Berlin ; ; New York, : Springer, 2006

   ISBN   3-540-33352-5

   Edizione   [1st ed. 2006.]

   Descrizione fisica 1 online resource (XII, 248 p.)

   Collana   LNCS sublibrary. SL 7, Artificial intelligence
                       Lecture notes in artificial intelligence, , 0302-9743 ; ; 3910

   Altri autori (Persone)   BruecknerSven A

   Disciplina   006.3

   Soggetti   Self-organizing systems
                       Evolutionary programming (Computer science)
                       Evolutionary computation

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   Bibliographic Level Mode of Issuance: Monograph

   Nota di bibliografia   Includes bibliographical references and author index.

   Nota di contenuto   pt. 1. Self-organising mechanisms -- pt. 2. Methodologies, models and
                       tools -- pt. 3. Applications.

   Sommario/riassunto The idea that self-organisation and emergence can be harnessed for
                       the purpose of solving tricky engineering problems is becoming
                       increasingly accepted. - searchers working in many diverse ?elds (such
                       as networks, distributed systems, operating systems and agent
                       systems) are beginning to apply this new approach. This book contains
                       recent work from a broad range of areas with the common theme of
                       utilising self-organisation productively. As distributed information
                       infrastructures continue to spread (such as the Internet, wireless and
                       mobile systems), new challenges have arisen demanding robust and
                       scalable solutions. In these new challenging environments the - signers
                       and engineers of global applications and services can seldom rely on
                       centralised control or management, high reliability of devices, or secure
                       en- ronments. At the other end of the scale, ad-hoc sensor networks
                       and ubiquitous computing devices are making it possible to embed
                       millions of smart computing agents into the local environment. Here
                       too systems need to adapt to constant failures and replacement of
                       agents and changes in the environment, without human intervention or