

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Record Nr.           | UNISA996465552103316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Titolo                  | Soft-Ware 2002: Computing in an Imperfect World [[electronic resource] ] : First International Conference, Soft-Ware 2002 Belfast, Northern Ireland, April 8-10, 2002 Proceedings / / edited by David Bustard, Weiru Liu                                                                                                                                                                                                                                                                                                                             |
| Pubbl/distr/stampa      | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ISBN                    | 3-540-46019-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Edizione                | [1st ed. 2002.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Descrizione fisica      | 1 online resource (XII, 364 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Collana                 | Lecture Notes in Computer Science, , 0302-9743 ; ; 2311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Disciplina              | 005.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soggetti                | Operating systems (Computers)<br>Software engineering<br>Management information systems<br>Computer science<br>Computers<br>Artificial intelligence<br>Operating Systems<br>Software Engineering/Programming and Operating Systems<br>Software Engineering<br>Management of Computing and Information Systems<br>Computation by Abstract Devices<br>Artificial Intelligence                                                                                                                                                                          |
| 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 index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nota di contenuto       | Technical Session 1 -- Overview of Fuzzy-RED in Diff-Serv Networks -- An Architecture for Agent-Enhanced Network Service Provisioning through SLA Negotiation -- Facing Fault Management as It Is, Aiming for What You Would Like It to Be -- Enabling Multimedia QoS Control with Black-Box Modelling -- Technical Session 2 -- Using Markov Chains for Link Prediction in Adaptive Web Sites -- Classification of Customer Call Data in the Presence of Concept Drift and Noise -- A Learning System for Decision Support in Telecommunications -- |

Adaptive User Modelling in an Intelligent Telephone Assistant --  
 Technical Session 3 -- A Query-Driven Anytime Algorithm for  
 Argumentative and Abductive Reasoning -- Proof Length as an  
 Uncertainty Factor in ILP -- Paraconsistency in Object-Oriented  
 Databases -- Decision Support with Imprecise Data for Consumers --  
 Genetic Programming: A Parallel Approach -- Software Uncertainty --  
 Technical Session 4 -- Temporal Probabilistic Concepts from  
 Heterogeneous Data Sequences -- Handling Uncertainty in a Medical  
 Study of Dietary Intake during Pregnancy -- Sequential Diagnosis in the  
 Independence Bayesian Framework -- Static Field Approach for Pattern  
 Classification -- Inferring Knowledge from Frequent Patterns --  
 Anytime Possibilistic Propagation Algorithm -- Technical Session 5 --  
 Macro Analysis of Techniques to Deal with Uncertainty in Information  
 Systems Development: Mapping Representational Framing Influences --  
 The Role of Emotion, Values, and Beliefs in the Construction of  
 Innovative Work Realities -- Managing Evolving Requirements Using  
 eXtreme Programming -- Text Summarization in Data Mining -- Invited  
 Speakers -- Industrial Applications of Intelligent Systems at BTexact --  
 Intelligent Control of Wireless and Fixed Telecom Networks --  
 Assertions in Programming: From Scientific Theory to Engineering  
 Practice -- Hybrid Soft Computing for Classification and Prediction  
 Applications -- Why Users Cannot 'Get What They Want' -- Systems  
 Design with the Reverend Bayes -- Formalism and Informality in  
 Software Development -- Industrial Panel -- An Industrial Perspective  
 on Soft Issues: Successes, Opportunities and Challenges.

## Sommario/riassunto

This was the first conference of a new series devoted to the effective handling of soft issues in the design, development, and operation of computing systems. The conference brought together contributors from a range of relevant disciplines, including artificial intelligence, information systems, software engineering, and systems engineering. The keynote speakers, Piero Bonissone, Ray Paul, Sir Tony Hoare, Michael Jackson, and Derek McAuley have interests and experience that collectively span all of these fields. Soft issues involve information or knowledge that is uncertain, incomplete, or contradictory. Examples of where such issues arise include: – requirements management and software quality control in software engineering, – conflict or multiple sources information management in information systems, – decision making/prediction in business management systems, – quality control in networks and user services in telecommunications, – traditional human rationality modeling in artificial intelligence, – data analysis in machine learning and data mining, – control management in engineering. The concept of dealing with uncertainty became prominent in the artificial intelligence community nearly 20 years ago, when researchers realized that addressing uncertainty was an essential part of representing and reasoning about human knowledge in intelligent systems. The main methodologies that have emerged in this area are soft computing and computational intelligence.