Record Nr. Autore	UNINA9910784612803321 Li W. D	
Titolo	Integrated and collaborative product development environment [[electronic resource]] : technologies and implementations / / W.D. Li, S.K. Ong, A.Y.C. Nee	
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2006	
ISBN	1-60119-284-3 1-281-38319-8 9786611383190 981-277-415-7	
Descrizione fisica	1 online resource (348 p.)	
Collana	Series on manufacturing systems and technology ; ; v. 2	
Altri autori (Persone)	NeeA. Y. C <1948-> (Andrew Yeh Chris) OngS. K. <1969->	
Disciplina	670.285	
Soggetti	Computer integrated manufacturing systems Industrial design - Data processing New products - Technological innovations Production planning - Data processing	
Lingua di pubblicazione	Inglese	
Formato	Materiale a stampa	
Livello bibliografico	Monografia	
Note generali	Description based upon print version of record.	
Nota di bibliografia	Includes bibliographical references (p. 313-325) and index.	
Nota di contenuto	Contents; Preface; Abbreviation; 1.Introduction; 1.1 Concurrent and CollaborativeEngineering; 1.2 EnablingTechnologies; 1.2.1 Artificial intelligence; 1.2.2 Internet technologies; 1.3 Summary; 2. Manufacturing Feature Recognition Technology - State-of-the-Art2.1 Evolving Representations for Design Models2.2 Boundary Feature Recognition Scheme; 2.2.1 Rule-based approach; 2.2.2 Graph-based; 2.2.4 Artificial neural networks-based approach; 2.3.2 Volume; 2.3 Volumetric Feature Recognition Scheme2.3.2 Volumegrowing/decomposition approach; 2.4Integration of Design-by-Feature and Feature Recognition	

1.

	; 2.5 Summary ; 3. A Hybrid Method for Interacting Manufacturing Feature Recognition ; 3.1 Introduction ; 3.2 Enhanced Attributed Adjacency Graph 3.2.1 Pre-process for generating EAAG		
	3.2.2 Establishment of EAAG	; 3.3 Generation of	
	Potential Features	; 3.3.1 Identifications of	
	F-Loops and their relationships		
	; 3.3.2 Identifications of FLGs Networks Classifier	; 3.4 Neural ; 3.5 Computation Results	
	3.5.1 Results for feature recognitic		
	Result comparisons	; 3.6 Summary ; 4.	
	Integration of Design-by-Feature and Manufacturing Feature		
	Recognition Introduction : 4.2 Fea	; 4.1	
	; 4.2.1 Feature models	atures and Their Relationships ; 4.2.2 Interacting relationships	
	between features 4.3 Manufacturing Features Recog	gnition Processor	
Sommario/riassunto	With the rapid advances in computing and Internet technologies, an integrated and collaborative environment, which is based on the complementary functions of concurrent engineering and Internet-based collaborative engineering, is imperative for companies to facilitate and expedite the product realization processes. Topics such as concurrent and collaborative engineering, feature-based design and manufacturing, evolutionary computational techniques such as Tabu Search, Simulated Annealing, Genetic Algorithms features, intelligent and computer-aided process planning are important strategies and		