

1. Record Nr.	UNINA9910451061703321
Titolo	Mathematics and computation in imaging science and information processing [[electronic resource] /] / editors Say Song Goh, Amos Ron, Zuowei Shen
Pubbl/distr/stampa	New Jersey, : World Scientific, c2007
ISBN	1-281-91870-9 9786611918705 981-270-906-1
Descrizione fisica	1 online resource (276 p.)
Collana	Lecture notes series, Institute for Mathematical Sciences, National University of Singapore ; ; v. 11
Altri autori (Persone)	GohSay Song RonAmos ShenZuowei
Disciplina	621.36/7
Soggetti	Image processing - Mathematical models Image processing - Data processing Electronic data processing - Mathematical models Electronic books.
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.
Nota di contenuto	CONTENTS; Foreword; Preface; Subdivision on Arbitrary Meshes: Algorithms and Theory Denis Zorin; 1. Introduction; 1.1. Subdivision in computer graphics and geometric modeling; 2. Basics; 2.1. Subdivision curves; 2.2. Subdivision surfaces; 3. Overview of Subdivision Schemes; 3.1. Classification of subdivision schemes; 3.2. Loop scheme; 3.3. Catmull-Clark scheme; 4. Modified Buttery Scheme; 4.1. Doo-Sabin scheme; 4.2. Midedge scheme and other non-integer arity schemes; 4.3. Comparison; 5. Smoothness of Subdivision Surfaces; 5.1. Cr-continuity and tangent plane continuity 5.2. Universal surfaces 5.3. Sufficient smoothness criteria; 6. Approximation Properties of Subdivision Surfaces; 6.1. Functional spaces on surfaces; 6.2. Manifold structure defined by subdivision; 7. Conclusions; References; High Order Numerical Methods for Time Dependent Hamilton-Jacobi Equations Chi-Wang Shu; 1. Introduction

and Properties of Hamilton-Jacobi Equations; 2. First Order Monotone Schemes; 2.1. Monotone schemes on structured rectangular meshes; 2.2. Monotone schemes on unstructured meshes; 3. High Order ENO and WENO Schemes on Structured Rectangular Meshes  
3.1. High order ENO schemes3.2. High order WENO schemes; 4. High Order WENO Schemes on Unstructured Meshes; 5. High Order Discontinuous Galerkin Schemes on Unstructured Meshes; 6. High Order Strong Stability Preserving Runge-Kutta Time Discretizations; 7. A Few Numerical Examples; 8. Concluding Remarks; References; Theory and Computation of Variational Image Deblurring Tony F. Chan and Jianhong Shen; 1. Mathematical Models of Blurs; 1.1. Linear blurs; 1.2. The DC-condition; 1.3. Nonlinear blurs; 2. Illposedness of Deblurring; 3. Tikhonov and Bayesian Regularization  
4. Optimal Wiener Filtering for Non-Blind Deblurring4.1. 2-D stochastic spatial signals; 4.2. Stochastic signals as random generalized functions; 4.3. Filtering-based deblurring; 4.4. Optimal Wiener Itering; 4.5. Connection to the Bayesian/Tikhonov method; 5. Deblurring Blurred BV Images; 5.1. TV deblurring by Rudin, Osher, and Fatemi; 5.2. Dealing with bounded image domains; 5.3. Existence and uniqueness; 5.4. Computation and examples; 6. Parametric Blind Deblurring; 6.1. Parametric modeling; 6.2. The AM algorithm; 7. Non-Parametric Blind Deblurring: Double-BV Model  
7.1. General formulation of blind deblurring7.2. Double-BV blind deblurring model of Chan and Wong; 7.3. On the uniqueness: Hidden symmetries; 7.4. The existence theorem; 8. Deblurring Besov Images via Iterated Shrinkage; 8.1. Wavelets and Besov images; 8.2. Besov image deblurring via iterated shrinkage; 8.3. Understanding the iterated-shrinkage algorithm; 8.3.1. As semi-implicit time marching; 8.3.2. Via augmentation and auxiliary variables; 9. Further Reading; Acknowledgements; References; Data Hiding - Theory and Algorithms Pierre Moulin and Ralf Koetter; 1. Introduction  
2. Model for Data Hiding

---

#### Sommario/riassunto

The explosion of data arising from rapid advances in communication, sensing and computational power has concentrated research effort on more advanced techniques for the representation, processing, analysis and interpretation of data sets. In view of these exciting developments, the program "Mathematics and Computation in Imaging Science and Information Processing" was held at the Institute for Mathematical Sciences, National University of Singapore, from July to December 2003 and in August 2004 to promote and facilitate multidisciplinary research in the area. As part of the program, a series

---

2. Record Nr.	UNINA9910782305803321
Titolo	China-ASEAN relations [[electronic resource]] : economic and legal dimensions / / editors, John Wong, Zou Keyuan and Zeng Huaqun
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2006
ISBN	1-281-90899-1 9786611908997 981-270-716-6
Descrizione fisica	1 online resource (348 p.)
Altri autori (Persone)	WongJohn <1939-> ZouKeyuan ZengHuaqun
Disciplina	337.51059
Soggetti	International relations China Foreign economic relations Southeast Asia Congresses Southeast Asia Foreign economic relations China Congresses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers of a conference organized by the East Asian Institute and Xiamen University and held in Singapore in December 2004.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; List of Editors and Contributors; Part I: Introduction; 1. New Dimensions in China-ASEAN Relations John WONG, ZOU Keyuan and ZENG Huaqun; General Framework of China-ASEAN Relations; Non-Traditional Security Issues; Free Trade Area Arrangements; Regional Economic Development; The South China Sea and Maritime Security; Regional Perspectives on ASEAN-China Relations; The Way Forward; Part II: Changing China-ASEAN Relations in Perspective; 2. China-ASEAN Relations: An Economic Perspective John WONG; Introduction; The Economic Rise of China; East Asian Growth and Interdependence A Source for Growth and a Catalyst for IntegrationPressure on ASEAN-China Relations; China's Bold FTA Initiative; New Impetus for ASEAN+3; Broader Geo-Political Implications; 3. ASEAN-China Relations: An International Law Perspective ZENG Lingliang; Introduction to ASEAN-China Relations: A Neglected Topic in the Study of International Law; Overview of the Present Legal Framework of ASEAN-China Relations; Exchange of Letters 1994: Founding of Formal Cooperative

Relationship; Joint Statement 1997: Programmatic Document on Partnership of Good Neighborliness and Mutual Trust  
Framework Agreement on Comprehensive Economic Cooperation 2002: Symbol of Entry into Overall Substantive Cooperation in Economics and TradeJoint Declaration on Cooperation in the Field of Non-Traditional Security Issues 2002: Legal Basis for Cooperation on New Security Issues; Declaration on the Conduct of Parties in the South China Sea 2002: Solemn Commitment of Mutual Trust and Self-restraint; China's Entry into Treaty of Amity and Cooperation in Southeast Asia: Important Legal Behavior by a Responsible Great Power  
Joint Declarations of Strategic Partnership 2003: New Blueprint for ASEAN-China RelationsGeneral International Law Permeating China-ASEAN Relations; Reassurance of the Underlying Position of Fundamental Principles of International Law; Stressing the Compatibility of Mutual Economic and Trade Cooperation with Fundamentals of WTO; ASEAN-China Relations: Legal Imperfection and Suggestions for Improvement; Legal Imperfection; Suggestions for Improvement; Conclusion:Most Recent Legal Developments in ASEAN-China Relations; Part III: China-ASEAN on Non-traditional Security Issues  
4. Regional Cooperation in Epidemic Prevention: China and ASEAN LAI HongyiIntroduction; SARS and Initial Failure of Cooperation; Launch and Deepening of Cooperation over SARS; Cooperation Beyond SARS: Tackling the Bird Flu; Conclusion: Catastrophe Prompts Strides in Regional Health Cooperation; 5. Anti-Piracy Cooperation Dilemma: ASEAN and China XU Ke; Introduction; Piracy in Southeast Asia: A Brief Historical Review; Piracy in "Malay World"; Piracy in the South China Sea; Modern Piracy in Southeast Asia; Definition; Typology; Anti-Piracy Agencies of ASEAN Countries and China  
The ASEAN Countries

---

#### Sommario/riassunto

With China's dynamic economic growth, its relations with the Association of Southeast Asian Nations (ASEAN) states have expanded rapidly in recent years, culminating in the conclusion of the landmark China-ASEAN Comprehensive Economic Cooperation Agreement in 2002. Beyond trade and economic activities, China-ASEAN cooperation has broadened to cover the environment, science and technology, non-traditional security areas and related legal issues. China's relations with ASEAN have reached a new era where the two sides have established an economic, legal and political framework for their comprehen

---