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Nota di contenuto	Wetland environments: A global perspective; Contents; Preface; Acknowledgements; Part I; 1: Wetland overview; 1.1 Introduction; 1.2 How much and where; 1.3 Wetland trends; 1.4 Wetland preservation and protection; 1.5 Wetland science; 1.6 Book approach and outline; 1.7 Summary; 2: Wetland criteria; 2.1 Definitions; 2.2 Water; 2.3 Soil; 2.4 Vegetation; 2.5 Wetland classification; 2.6 Peatland; 2.7 Anthropogenic dimensions of wetlands; 2.8 Summary; 3: Methods in wetland research; 3.1 Introduction; 3.2 Remote sensing; 3.2.1 Image resolution and interpretability; 3.2.2 Wetland image interpretation

5.3 Hydric soil criteria 5.4 Mineral and organic hydric soils; 5.5 Submerged wetland substrates; 5.6 Summary; 6: Wetland vegetation; 6.1 Plant adaptations; 6.1.1 Structural adaptations; 6.1.2 Biochemical adaptations; 6.2 Ecological categories; 6.2.1 Shoreline plants; 6.2.2 Emergent plants; 6.2.3 Floating plants; 6.2.4 Submerged plants; 6.2.5 Plant zonation; 6.3 Indicator categories; 6.4 Plant hardiness zones; 6.5 Invasive plant species; 6.6 Summary; 7: Wetland wildlife; 7.1 Introduction; 7.2 Wetland invertebrates; 7.2.1 Insects; 7.2.2 Mosquitos; 7.2.3 Corals; 7.3 Wetland vertebrates 7.3.1 Amphibians 7.3.2 Reptiles; 7.3.3 Birds; 7.3.4 Mammals; 7.4 Invasive animal species; 7.5 Summary; Part III; 8: Wetland change; 8.1 Introduction; 8.2 Hydroseral succession; 8.3 Sea-level change and crustal movements; 8.3.1 Glacial eustasy; 8.3.2 Glacial isostasy; 8.3.3 Complicated responses; 8.3.4 Modern sea-level rise; 8.4 Climate change; 8.4.1 Climate basics; 8.4.2 Climate and wetlands; 8.5 Fire; 8.6 Summary; 9: Wetlands through time; 9.1 Introduction; 9.2 Coal; 9.2.1 Paleozoic coal; 9.2.2 Cretaceous-Tertiary coal and lignite; 9.3 Amber; 9.4 Pleistocene and Holocene wetlands 9.4.1 Nordic region 9.4.2 North America; 9.4.3 Tropics and Antarctica; 9.4.4 Holocene climate and early man; 9.5 Summary; 10: Environmental cycles and feedback; 10.1 Biogeochemical cycles; 10.1.1 Wetland elements; 10.1.2 Nitrogen; 10.1.3 Phosphorus, potassium and sulfur; 10.2 Carbon cycle; 10.2.1 Carbon reservoirs; 10.2.2 Carbon balance; 10.2.3 Carbon gases and climatic feedback; 10.3 Fossil fuels; 10.3.1 Fossil-fuel consumption; 10.3.2 Coal mining and acid rain; 10.3.3 Estonian oil shale; 10.4 Human experiment; 10.5 Summary; Part IV; 11: Wetland services, resources and valuation 11.1 Human use of wetland ecosystems

Sommario/riassunto

Wetlands - swamp, marsh, bayou, tundra and bog - are places that are rarely visited and often misunderstood but they have, in fact, conspicuous roles in the physical, biological and cultural geography of the world.? They are intrinsically beautiful environments where one may see the natural and essential values in the interaction of water, soil, vegetation, wildlife, and humans.? Wetlands occur at the confluence of unique terrestrial, hydrological and climatic conditions that give rise to some of the most biodiverse regions of the world.? They also play vital roles in the cycling and storage o

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Descrizione fisica	1 online resource (225 pages) : illustrations, tables
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Soggetti	Computer networks Natural language processing (Computer science) Artificial intelligence Computational linguistics Computer Communication Networks Natural Language Processing (NLP) Artificial Intelligence Computational Linguistics
Lingua di pubblicazione	Inglese
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Nota di contenuto	Part I Language Service Platform -- 1 Federated Grid Architecture for Language Services -- 2 Language Mashup: Personalized Language Service Platform -- Part II Language Service Composition -- 3 Language Service Composition Based on Higher Order Functions -- 4 Policy-Aware Language Service Composition -- 5 Optimizing Crowdsourcing Workflow for Language Services -- 6 Cascading-Failure Tolerance for Language Service Networks -- Part III Language Resources and Services Creation -- 7 A Constraint Approach to Lexicon Induction for Low-Resource Languages -- 8 Language Service Design Based on User-Centered QoS -- Part IV Understanding and Designing Language Services -- 9 Consistency Analysis in Multi-Language Knowledge Sharing System -- 10 Supporting Non-native Speakers' Listening Comprehension with Automated Transcripts -- 11 Translation Agent -- 12 Gaming for Language Services -- 13 Youth Mediated Communication: Knowledge Transfer as Intercultural Communication.

Describing the technologies to combine language resources flexibly as web services, this book provides valuable case studies for those who work in services computing, language resources, human–computer interaction (HCI), computer-supported cooperative work (CSCW), and service science. The authors have been operating the Language Grid, which wraps existing language resources as atomic language services and enables users to compose new services by combining them. From architecture level to service composition level, the book explains how to resolve infrastructural and operational difficulties in sharing and combining language resources, including interoperability of language service infrastructures, various types of language service policies, human services, and service failures. The research based on the authors' operating experiences of handling complicated issues such as intellectual property and interoperability of language resources contributes to exploitation of language resources as a service. On the other hand, both the analysis based on using services and the design of new services can bring significant results. A new style of multilingual communication supported by language services is worthy of analysis in HCI/CSCW, and the design process of language services is the focus of valuable case studies in service science. By using language resources in different ways based on the Language Grid, many activities are highly regarded by diverse communities. This book consists of four parts: (1) two types of language service platforms to interconnect language services across service grids, (2) various language service composition technologies that improve the reusability, efficiency, and accuracy of composite services, (3) research work and activities in creating language resources and services, and (4) various applications and tools for understanding and designing language services that well support intercultural collaboration.
