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learning: fostering metacognition and infusing active learning into the GIS&T classroom; 10 Where to begin? Getting started teaching GIS&T 11 Issues in curriculum and course design: discussion and prospectSECTION III PERSPECTIVES ON TEACHING GIS&T; 12 The University of Minnesota master of geographic information science (MGIS) program: a decade of experience in professional education; 13 Geospatial education at US community colleges; 14 The GIS Professional Ethics project: practical ethics for GIS professionals; 15 An exploration of spatial thinking in introductory GIS courses; 16 Teaching spatial literacy and spatial technologies in the digital humanities; 17 Discussion and prospect; SECTION IV DIGITAL WORLDS AND TEACHING GIS&T 18 Virtual geographic environments19 Using web-based GIS and virtual globes in undergraduate education; 20 Trying to build a wind farm in a national park: experiences of a geocollaboration experiment in Second Life; 21 From location-based services to location-based learning: challenges and opportunities for higher education; 22 GIS is dead, long live GIS&T: an educational commentary on the opening of Pandora's Box; SECTION V DISTANCE AND E-LEARNING; 23 Media and communications systems in cartographic education; 24 UNIGIS - networked learning over a distance; 25 The Esri Virtual Campus 26 Delivering GIScience education via blended learning: the GITTA experience27 GIS&T in the open educational resources movement; 28 Experiences in 'e' and 'distance-' learning: a personal account; CONCLUSION; 29 Ways forward for GIS&T education; Index

Sommario/riassunto

Geographic Information Science and Technology (GISc&T) has been at the forefront of education innovation in geography and allied sciences for two decades. Teaching Geographic Information Science and Technology in Higher Education is an invaluable reference for educators and researchers working in GISc&T, providing coverage of the latest innovations in the field and discussion of what the future holds for GI Science education in the years to come. This book clearly documents teaching innovations and takes stock of lessons learned from experience in the discipline. The content wil
