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QGIS and Applications in Agriculture and Forest **Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations** **SENTINEL 1 Earth Observation Data Cubes** **Water Challenges of an Urbanizing World** *Biomass Burning in South and Southeast Asia* *Born in Blood* *The Shadow Shifter* **The Sentinel Mage** [Radar Remote Sensing](#) **The Sentinel** *Engineering Geology for Society and Territory - Volume 4* **Shadow of the Sentinel** **Remote Sensing Time Series** [Hurricane Monitoring With Spaceborne Synthetic Aperture Radar](#) [Advances in SAR Remote Sensing of Oceans](#) **Remote Sensing of Wetlands** **Assessing the Spatial Variability of Aboveground Forest Carbon Using Sentinel-1, Sentinel-2 and Field Inventory Data of the Miombo Woodlands in Songwe District, Tanzania** **The Sentinel** **Optical and SAR Remote Sensing of Urban Areas** **The Sentinel** **The Adventures of Captain America, Sentinel of Liberty** **Google Earth Engine Applications** [Microsoft Sentinel in Action](#) *Touched by Darkness* *The Lost and the Chosen* [The Sentinel's Necklace \(the Chronicles of Sors, Book 1\)](#) [Image Analysis](#) [Remote Sensing of Hydrological Extremes](#) **The Sentinel Method and Its Application to Environmental Pollution Problems** [Microwave Remote Sensing of Sea Ice](#) [Spatial Information Science for Natural Resource Management](#) **Public Sentinel** **InSAR Crustal Deformation Monitoring, Modeling and Error Analysis** [Advances in SAR Remote Sensing of Oceans](#) **The Sentinel** **Sentinel Rising** [Decimation](#) **Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations** **Advances in SAR: Sensors, Methodologies, and Applications**

Assessing the Spatial Variability of Aboveground Forest Carbon Using Sentinel-1, Sentinel-2 and Field Inventory Data of the Miombo Woodlands in Songwe District, Tanzania May 14 2021

Sentinel Rising Sep 25 2019 They erected the walls to keep out humans. Patches never wished to be a hero, not like in comic books. His dream of being forgettable ended when he received a note written by a dead psychic fifty years ago. Cursing her name, he travelled to the Tower. He had heard rumors, but didn't expect a technologically advanced sanctuary for the Children of Nostradamus. For Eve, becoming a hero was her only ambition. Despite lackluster powers, she demanded to be like her fathers, retired superheroes who once saved the world. A rejection letter from the Sentinel's peacekeeping program crushed her hopes. The true threat lives within their walls. When an unknown saboteur lowers the Tower's defenses, a wave of synthetic killing machines set out to dismantle their utopia. An unsuspecting Patches is at the center of the mystery. Eve sets out to discover why, even if it results in being banished. But to save their home, they'll need to confront a menace more powerful than they could predict. Unlike the comic books, death is permanent and without them, the Tower will collapse.

The Sentinel Mage Feb 20 2022 First novel in the trilogy: "A good read. Death and magic, zombies and assassins, fighting and fleeing. What more could you ask for?" (FantasyBook Review). In a distant corner of the Seven Kingdoms, an ancient curse festers and grows, consuming everything in its path. Only one man can break it: Harkeld of Osgaard, a prince with mage's blood in his veins. But Prince Harkeld has a bounty on his head--and assassins at his heels. Innis is a gifted shapeshifter. Now she must do the forbidden: become a man. She must stand at Prince Harkeld's side as his armsman, both protecting and deceiving him. But the deserts of the Masse are more dangerous than the assassins hunting the prince. The curse has woken deadly creatures, and

the magic Prince Harkeld loathes may be the only thing standing between him and death.

The Shadow Shifter Mar 24 2022 The talking Castle of Asteroth is a place of ancient magic... and it's dying. Ashlynn is its sole inhabitant and the only one who can restore its power. Raised from birth to fight the supernatural monsters that live in the Void, Ash is the Sentinel: her world's last defense against the blood-sucking creatures who would devour everything and everyone in their path. But not even the Sentinel can fight alone. Begrudgingly, Ash allows three men chosen by the castle to compete for the right to fight at her side: a shifty demon, a rogue alchemist, and a devastatingly dark shifter prince. These are dangerous men, full of more raw magic and power than Ash has ever seen, and she can't, for the life of her, understand why the castle allowed any of them inside. The catch? These three men all want one thing. Her. Edmund, Darien, and Taegen all have more at stake than they let on. None of them can lose this contest, and one thing is clear: the only way to win a place in the castle is to also win Ash's heart. Through blood, war, or treason, each man will do anything to claim her as his own. Anything. What should have been an easy choice becomes impossible, and as the castle begins to crumble around them, the creatures of the Void smell blood. They're coming for Ash, for her men, and for her home. But Ash is a fighter. Come hell or high water, she'll defend what belongs to her with her life. *The Shadow Shifter* is a full-length, slow burn, reverse harem novel. Get ready for a spellbinding story, one badass heroine, three gorgeous men, a charming nerd, toned muscles, fights to the death, and edge-of-your-seat action.

Hurricane Monitoring With Spaceborne Synthetic Aperture Radar Aug 17 2021 This book discusses in detail the science and morphology of powerful hurricane detection systems. It broadly addresses new approaches to monitoring hazards using freely available images from the European Space Agency's (ESA's) Sentinel-1 SAR satellite and benchmarks a new interdisciplinary field at the interface between oceanography, meteorology and remote sensing. Following the launch of the first European Space Agency (ESA) operational synthetic aperture radar satellite, Sentinel-1, in 2014, synthetic aperture radar (SAR) data has been freely available on the Internet hub in real-time. This advance allows weather forecasters to view hurricanes in fine detail for the first time. As a result, the number of synthetic aperture radar research scientists working in this field is set to grow exponentially in the next decade; the book is a valuable resource for this large and budding audience.

Remote Sensing Time Series Sep 17 2021 This volume comprises an outstanding variety of chapters on Earth Observation based time series analyses, undertaken to reveal past and current land surface dynamics for large areas. What exactly are time series of Earth Observation data? Which sensors are available to generate real time series? How can they be processed to reveal their valuable hidden information? Which challenges are encountered on the way and which pre-processing is needed? And last but not least: which processes can be observed? How are large regions of our planet changing over time and which dynamics and trends are visible? These and many other questions are answered within this book "Remote Sensing Time Series Analyses - Revealing Land Surface Dynamics". Internationally renowned experts from Europe, the USA and China present their exciting findings based on the exploitation of satellite data archives from well-known sensors such as AVHRR, MODIS, Landsat, ENVISAT, ERS and METOP amongst others. Selected review and methods chapters provide a good overview over time series processing and the recent advances in the optical and radar domain. A fine selection of application chapters addresses multi-class land cover and land use change at national to continental scale, the derivation of patterns of vegetation phenology, biomass assessments, investigations on snow cover duration and recent dynamics, as well as urban sprawl observed over time.

InSAR Crustal Deformation Monitoring, Modeling and Error Analysis Dec 29 2019

The Adventures of Captain America, Sentinel of Liberty Jan 10 2021

QGIS and Applications in Agriculture and Forest Oct 31 2022 These four volumes present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The volumes detail applications of

remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

Radar Remote Sensing Jan 22 2022 Radar Remote Sensing: Applications and Challenges advances the scientific understanding, development, and application of radar remote sensing using monostatic, bistatic and multi-static radar geometry. This multidisciplinary reference pulls together a collection of the recent developments and applications of radar remote sensing using different radar geometry and platforms at local, regional and global levels. Radar Remote Sensing is for researchers and practitioners with earth and environmental and meteorological sciences, who are interested in radar remote sensing in ground based scatterometer and SAR systems; air borne scatterometer and SAR systems; space borne scatterometer and SAR systems. Covers monostatic, bistatic and multi-static radar geometry Features case studies, including experimental investigations, for practical application Includes geophysical, oceanographical, and meteorological Synthetic Aperture Radar data

Water Challenges of an Urbanizing World Jun 26 2022 Global water crisis is a challenge to the security, political stability and environmental sustainability of developing nations and with climate, economically and politically, induces migrations also for the developed ones. Currently, the urban population is 54% with prospects that by the end of 2050 and 2100 66% and 80%, respectively, of the world's population will live in urban environment. Untreated water abstracted from polluted resources and destructed ecosystems as well as discharge of untreated waste water is the cause of health problems and death for millions around the globe. Competition for water is wide among agriculture, industry, power companies and recreational tourism as well as nature habitats. Climate changes are a major threat to the water resources. This book intends to provide the reader with a comprehensive overview of the current state of the art in integrated assessment of water resource management in the urbanizing world, which is a foundation to develop society with secure water availability, food market stability and ecosystem preservation.

Spatial Information Science for Natural Resource Management Feb 29 2020 Stress on natural resources has recently increased due to commercialization and the need to provide livelihoods for locals. Because they are such core parts of everyday life, ensuring sustainability in resource management is of paramount importance. Only by integrating the tools of spatial information science can an effective course for preserving and protecting natural resources be created. Spatial Information Science for Natural Resource Management is a pivotal reference source that explores coordinated approaches to sustainable development and management of natural resources to keep a balance of the environment, ecology, and human livelihood. Featuring coverage on a wide range of topics including crop yield estimation, ecosystem services, and land information systems, this book covers interdisciplinary techniques in monitoring and managing natural resources. This publication is ideally designed for urban planners, environmentalists, policymakers, ecologists, researchers, academicians, students, and professionals in the fields of remote sensing, civil engineering, social science, computer science, and information technology.

Shadow of the Sentinel Oct 19 2021 Explores the legacy of a Civil War-era secret society, the Knights of the Golden Circle, and describes efforts to crack the society's system of codes and symbols to identify hidden treasure sites across the American south and west.

The Sentinel Method and Its Application to Environmental Pollution Problems May 02 2020 Many environmental problems contain incomplete data in the initial or boundary conditions. How do we solve problems for which some of the initial and/or boundary conditions are unknown? Using a new technique, the sentinel method, this book answers these questions and others as they pertain to inverse problems in environmental pollution, such as pollution of underground and surface waters, thermal pollution, and air pollution.

Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations Sep 29 2022 Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations

contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2020), held in Sapporo, Hokkaido, Japan, April 11-15, 2021. This volume consists of a book of extended abstracts and a USB card containing the full papers of 571 contributions presented at IABMAS 2020, including the T.Y. Lin Lecture, 9 Keynote Lectures, and 561 technical papers from 40 countries. The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance, safety, management, life-cycle sustainability and technological innovations of bridges. Major topics include: advanced bridge design, construction and maintenance approaches, safety, reliability and risk evaluation, life-cycle management, life-cycle sustainability, standardization, analytical models, bridge management systems, service life prediction, maintenance and management strategies, structural health monitoring, non-destructive testing and field testing, safety, resilience, robustness and redundancy, durability enhancement, repair and rehabilitation, fatigue and corrosion, extreme loads, and application of information and computer technology and artificial intelligence for bridges, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance, safety, management, life-cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including engineers, researchers, academics and students from all areas of bridge engineering.

Remote Sensing of Wetlands Jun 14 2021 Effectively Manage Wetland Resources Using the Best Available Remote Sensing Techniques Utilizing top scientists in the wetland classification and mapping field, *Remote Sensing of Wetlands: Applications and Advances* covers the rapidly changing landscape of wetlands and describes the latest advances in remote sensing that have taken place over the pa

Earth Observation Data Cubes Jul 28 2022 Satellite Earth observation (EO) data have already exceeded the petabyte scale and are increasingly freely and openly available from different data providers. This poses a number of issues in terms of volume (e.g., data volumes have increased 10× in the last 5 years); velocity (e.g., Sentinel-2 is capturing a new image of any given place every 5 days); and variety (e.g., different types of sensors, spatial/spectral resolutions). Traditional approaches to the acquisition, management, distribution, and analysis of EO data have limitations (e.g., data size, heterogeneity, and complexity) that impede their true information potential to be realized. Addressing these big data challenges requires a change of paradigm and a move away from local processing and data distribution methods to lower the barriers caused by data size and related complications in data management. To tackle these issues, EO data cubes (EODC) are a new paradigm revolutionizing the way users can store, organize, manage, and analyze EO data. This Special Issue is consequently aiming to cover the most recent advances in EODC developments and implementations to broaden the use of EO data to larger communities of users, support decision-makers with timely and actionable information converted into meaningful geophysical variables, and ultimately unlock the information power of EO data.

SENTINEL 1 Aug 29 2022

Optical and SAR Remote Sensing of Urban Areas Mar 12 2021 This book introduces remotely sensed image processing for urban areas using optical and synthetic aperture radar (SAR) data and assists students, researchers, and remote sensing practitioners who are interested in land cover mapping using such data. There are many introductory and advanced books on optical and SAR remote sensing image processing, but most of them do not serve as good practical guides. However, this book is designed as a practical guide and a hands-on workbook, where users can explore data and methods to improve their land cover mapping skills for urban areas. Although there are many freely available earth observation data, the focus is on land cover mapping using Sentinel-1 C-band SAR and Sentinel-2 data. All remotely sensed image processing and classification

procedures are based on open-source software applications such as QGIS and R as well as cloud-based platforms such as Google Earth Engine (GEE). The book is organized into six chapters. Chapter 1 introduces geospatial machine learning, and Chapter 2 covers exploratory image analysis and transformation. Chapters 3 and 4 focus on mapping urban land cover using multi-seasonal Sentinel-2 imagery and multi-seasonal Sentinel-1 imagery, respectively. Chapter 5 discusses mapping urban land cover using multi-seasonal Sentinel-1 and Sentinel-2 imagery as well as other derived data such as spectral and texture indices. Chapter 6 concludes the book with land cover classification accuracy assessment.

Engineering Geology for Society and Territory - Volume 4 Nov 19 2021 This book is one out of 8 IAEG XII Congress volumes, and deals with the processes occurring on the coastal zone, which represents a critical interface between land and sea, as the contribution of the ocean to the provision of energy and mineral resources will likely increase in the coming decades. Several related topics fit into this volume, such as: coastal developments and infrastructures; dredging and beach re-nourishment; sediment erosion, transport and accumulation; geohazard assessment; seafloor uses; seabed mapping; exploration and exploitation of the seafloor, of the sub-seafloor, and of marine clean energies and climatic and anthropogenic impacts on coastal and marine environments. Examples of specific themes are coastal management and shore protection, taking into account storm-related events and natural and anthropogenic changes in the relative sea level, planning of waste disposal, remedial works for coastal pollution, seafloor pipeline engineering, slope stability analysis, or tsunami propagation and flooding. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: 1. Climate Change and Engineering Geology 2. Landslide Processes River Basins 3. Reservoir Sedimentation and Water Resources 4. Marine and Coastal Processes Urban Geology 5. Sustainable Planning and Landscape Exploitation 6. Applied Geology for Major Engineering Projects 7. Education, Professional Ethics and Public Recognition of Engineering Geology 8. Preservation of Cultural Heritage.

Google Earth Engine Applications Dec 09 2020 In a rapidly changing world, there is an ever-increasing need to monitor the Earth's resources and manage it sustainably for future generations. Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard. Satellite-based earth observation has advanced rapidly over the last 50 years, and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions. The amount of data available for any single location on the Earth is now at the petabyte-scale. An ever-increasing capacity and computing power is needed to handle such large datasets. The Google Earth Engine (GEE) is a cloud-based computing platform that was established by Google to support such data processing. This facility allows for the storage, processing and analysis of spatial data using centralized high-power computing resources, allowing scientists, researchers, hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface. This book presents research that applies the Google Earth Engine in mining, storing, retrieving and processing spatial data for a variety of applications that include vegetation monitoring, cropland mapping, ecosystem assessment, and gross primary productivity, among others. Datasets used range from coarse spatial resolution data, such as MODIS, to medium resolution datasets (Worldview -2), and the studies cover the entire globe at varying spatial and temporal scales.

Advances in SAR Remote Sensing of Oceans Nov 27 2019 The oceans cover approximately 71% of Earth's surface, 90% of the biosphere and contains 97% of Earth's water. Since the first launch of SEASAT satellite in 1978, an increasing number of SAR satellites have or will become available, such as the European Space Agency's ERS-1/-2, ENVISAT, and Sentinel-1 series; the Canadian RADARSAT-1/-2 and the upcoming RADARSAT Constellation Mission series satellites; the Italian

COSMO-SkyMed satellites, the German TERRASAR-X and TANDEM-X, and the Chinese GAOFEN-3 SAR, among others. Recently, European Space Agency has launched a new generation of SAR satellites, Sentinel-1A in 2014 and Sentinel-1B in 2016. These SAR satellites provide researchers with free and open SAR images necessary to carry out their research on the global oceans. The scope of *Advances in SAR Remote Sensing of Oceans* is to demonstrate the types of information that can be obtained from SAR images of the oceans, and the cutting-edge methods needed for analysing SAR images. Written by leading experts in the field, and divided into four sections, the book presents the basic principles of radar backscattering from the ocean surface; introduces the recent progresses in SAR remote sensing of dynamic coastal environment and management; discusses the state-of-the-art methods to monitor parameters or phenomena related to the dynamic ocean environment; and deals specifically with new techniques and findings of marine atmospheric boundary layer observations. *Advances in SAR Remote Sensing of Oceans* is a very comprehensive and up-to-date reference intended for use by graduate students, researchers, practitioners, and R&D engineers working in the vibrant field of oceans, interested to understand how SAR remote sensing can support oceanography research and applications.

The Lost and the Chosen Sep 05 2020 My name is Vinna, and I've been keeping a lot of secrets. You would too if you'd experienced some of the weird shit I have: red-eyed monsters chasing me, markings on my body appearing out of nowhere, a strange power that crackles colorfully over my skin from time to time, and don't get me started on the weapons I can conjure up almost out of nowhere. Lucky for me, I have yet to meet someone whose ass I couldn't kick, inside the ring or out. I put that to the test when I run headfirst into a fight that brings all my secrets, and reality as I know it, crashing down around me. Now, I'm looking for answers and trying to piece together what the hell is going on. Paranormal is my new way of life. It's not going to be easy, and I'm not exactly welcome. That is, until I meet the boys, and trust me, they are anything but boyish. I'm up against elders who think I'm too powerful, a family who views me as a threat, and something lurking in the shadows that's been coming for me my whole life. There's not a chance in hell I'm going down without a fight. I'm not lost anymore, and I'm about to show this world exactly what I can do.

Author's Note: This is the first book in The Lost Sentinel Series and ends with a cliffhanger. This book is a medium burn reverse harem story, intended for ages 18 years and older. This story contains strong language, sexual situations, and violence. Book two coming in January

Microsoft Sentinel in Action Nov 07 2020 Learn how to set up, configure, and use Microsoft Sentinel to provide security incident and event management services for your multi-cloud environment Key Features Collect, normalize, and analyze security information from multiple data sources Integrate AI, machine learning, built-in and custom threat analyses, and automation to build optimal security solutions Detect and investigate possible security breaches to tackle complex and advanced cyber threats Book Description Microsoft Sentinel is a security information and event management (SIEM) tool developed by Microsoft that helps you integrate cloud security and artificial intelligence (AI). This book will teach you how to implement Microsoft Sentinel and understand how it can help detect security incidents in your environment with integrated AI, threat analysis, and built-in and community-driven logic. The first part of this book will introduce you to Microsoft Sentinel and Log Analytics, then move on to understanding data collection and management, as well as how to create effective Microsoft Sentinel queries to detect anomalous behaviors and activity patterns. The next part will focus on useful features, such as entity behavior analytics and Microsoft Sentinel playbooks, along with exploring the new bi-directional connector for ServiceNow. In the next part, you'll be learning how to develop solutions that automate responses needed to handle security incidents and find out more about the latest developments in security, techniques to enhance your cloud security architecture, and explore how you can contribute to the security community. By the end of this book, you'll have learned how to implement Microsoft Sentinel to fit your needs and protect your environment from cyber threats and other security issues. What you will learn Implement Log Analytics and enable Microsoft Sentinel and

data ingestion from multiple sourcesTackle Kusto Query Language (KQL) codingDiscover how to carry out threat hunting activities in Microsoft SentinelConnect Microsoft Sentinel to ServiceNow for automated ticketingFind out how to detect threats and create automated responses for immediate resolutionUse triggers and actions with Microsoft Sentinel playbooks to perform automationsWho this book is for You'll get the most out of this book if you have a good grasp on other Microsoft security products and Azure, and are now looking to expand your knowledge to incorporate Microsoft Sentinel. Security experts who use an alternative SIEM tool and want to adopt Microsoft Sentinel as an additional or a replacement service will also find this book useful.

Image Analysis Jul 04 2020 The two-volume set LNCS 10269 and 10270 constitutes the refereed proceedings of the 20th Scandinavian Conference on Image Analysis, SCIA 2017, held in Tromsø, Norway, in June 2017. The 87 revised papers presented were carefully reviewed and selected from 133 submissions. The contributions are structured in topical sections on history of SCIA; motion analysis and 3D vision; pattern detection and recognition; machine learning; image processing and applications; feature extraction and segmentation; remote sensing; medical and biomedical image analysis; faces, gestures and multispectral analysis.

The Sentinel Oct 26 2019 A collection of short stories by the author of *Childhood's End* and *2001: A Space Odyssey* showcases the author's storytelling skills in such works as "The Sentinel," "Guardian Angel," "The Songs of Distant Earth," and "Breaking Strain." Reprint.

Born in Blood Apr 24 2022 To find a brutal killer, a cop must team up a woman who can read the final thoughts of the dead in this paranormal romance series opener. Enter the dark world of the Sentinels—humans cast out due to their special abilities, treading the line between life and death, good and evil, pleasure and pain . . . Sergeant Duncan O'Conner has seen it all before. Beautiful erotic dancer, murdered at home, no suspect, no motive. But there's one clue: she's missing her heart. It's enough to make the hard-bitten Kansas City cop enlist the help of a necro—one of the dead-channeling freaks who live in the domed city of nearby Valhalla. It's a long shot, but desperate crimes call for desperate measures. Unlike the other "high-bloods" in Valhalla, Callie Brown considers her abilities a gift, not a curse. But when she reads the dancer's final thoughts, she senses a powerful presence blocking her vision. This is no ordinary homicide. This is the work of a legendary necromancer who controls souls. A ravenous force that will put Callie's skills to the test, O'Conner's career at risk, and both their hearts on the line . . . literally. Praise for New York Times–bestselling Author Alexandra Ivy "Beyond the Darkness kept me riveted! The Guardians of Eternity series is highly addictive." —Larissa Ione, New York Times bestselling author "Ivy always packs her books with buckets of action, emotion and sexy sizzle. Another winner!" —RT Book Reviews on *Devoured by Darkness*

The Sentinel Feb 08 2021

Advances in SAR: Sensors, Methodologies, and Applications Jun 22 2019 This book is a printed edition of the Special Issue "Advances in SAR: Sensors, Methodologies, and Applications" that was published in *Remote Sensing*

The Sentinel Dec 21 2021 #1 NEW YORK TIMES BESTSELLER • THE BLOCKBUSTER JACK REACHER SERIES THAT INSPIRED TWO MAJOR MOTION PICTURES AND THE UPCOMING STREAMING SERIES REACHER Jack Reacher is back! The "utterly addictive" (The New York Times) series continues as acclaimed author Lee Child teams up with his brother, Andrew Child, fellow thriller writer extraordinaire. "One of the many great things about Jack Reacher is that he's larger than life while remaining relatable and believable. The Sentinel shows that two Childs are even better than one."—James Patterson As always, Reacher has no particular place to go, and all the time in the world to get there. One morning he ends up in a town near Pleasantville, Tennessee. But there's nothing pleasant about the place. In broad daylight Reacher spots a hapless soul walking into an ambush. "It was four against one" . . . so Reacher intervenes, with his own trademark brand of conflict resolution. The man he saves is Rusty Rutherford, an unassuming IT manager, recently fired after a cyberattack locked up the town's data, records, information . . . and

secrets. Rutherford wants to stay put, look innocent, and clear his name. Reacher is intrigued. There's more to the story. The bad guys who jumped Rutherford are part of something serious and deadly, involving a conspiracy, a cover-up, and murder—all centered on a mousy little guy in a coffee-stained shirt who has no idea what he's up against. Rule one: if you don't know the trouble you're in, keep Reacher by your side.

Touched by Darkness Oct 07 2020 Dr. Kara Cantrell settled in the sleepy town of Zorro, Texas, convinced she and her child had escaped the sinister reach of a supernatural underworld. But now dark forces may jeopardize her new life. Her only hope is Damien Morgan, a dangerous, alluring man with superhuman abilities. He and Kara share a mystical link that triggers desires they must ignore. But as they work together to protect her son, and begin tracking the evil stalking them, something threatens to push them toward the edge...of darkness.

The Sentinel Apr 12 2021 Jeffrey Konvitz's New York Times–bestselling horror novel about a young woman descending into demonic madness who discovers it's not simply in her mind Aspiring model Allison Parker finally moves into her dream apartment: a brownstone on Manhattan's Upper West Side. But her perfect home quickly turns hellish. The building is filled with a cast of sinister tenants, including a reclusive blind priest, who seems to watch her day and night through an upstairs window. Eventually, Allison starts hearing strange noises from the empty apartment above hers. Before long, she uncovers the building's demonic secret and is plunged into a nightmare of sinful misdeeds and boundless evil. In the tradition of *Rosemary's Baby*, this gripping novel was adapted into a feature film starring Ava Gardner, Cristina Raines, and Chris Sarandon. *The Sentinel* is classic horror at its best.

Advances in SAR Remote Sensing of Oceans Jul 16 2021 The oceans cover approximately 71% of Earth's surface, 90% of the biosphere and contains 97% of Earth's water. Since the first launch of SEASAT satellite in 1978, an increasing number of SAR satellites have or will become available, such as the European Space Agency's ERS-1/-2, ENVISAT, and Sentinel-1 series; the Canadian RADARSAT-1/-2 and the upcoming RADARSAT Constellation Mission series satellites; the Italian COSMO-SkyMed satellites, the German TERRASAR-X and TANDEM-X, and the Chinese GAOFEN-3 SAR, among others. Recently, European Space Agency has launched a new generation of SAR satellites, Sentinel-1A in 2014 and Sentinel-1B in 2016. These SAR satellites provide researchers with free and open SAR images necessary to carry out their research on the global oceans. The scope of *Advances in SAR Remote Sensing of Oceans* is to demonstrate the types of information that can be obtained from SAR images of the oceans, and the cutting-edge methods needed for analysing SAR images. Written by leading experts in the field, and divided into four sections, the book presents the basic principles of radar backscattering from the ocean surface; introduces the recent progresses in SAR remote sensing of dynamic coastal environment and management; discusses the state-of-the-art methods to monitor parameters or phenomena related to the dynamic ocean environment; and deals specifically with new techniques and findings of marine atmospheric boundary layer observations. *Advances in SAR Remote Sensing of Oceans* is a very comprehensive and up-to-date reference intended for use by graduate students, researchers, practitioners, and R&D engineers working in the vibrant field of oceans, interested to understand how SAR remote sensing can support oceanography research and applications.

Decimation Aug 24 2019 Discover the origin of the Sentinel Squad! How did they come together and become the elite group of soldiers to pilot the Sentinels that have made their presence known at the Xavier Institute? This title presents a collection of 'Sentinel Squad O*N*E*', numbered 1-5.

Remote Sensing of Hydrological Extremes Jun 02 2020 This volume provides in-depth coverage of the latest in remote sensing of hydrological extremes: both floods and droughts. The book is divided into two distinct sections - floods and droughts - and offers a variety of techniques for monitoring each. With rapid advances in computer modelling and observing systems, floods and droughts are studied with greater precision today than ever before. Land surface models, especially over the entire Continental United States, can map the hydrological cycle at kilometre and sub-kilometre

scales. In the case of smaller areas there is even higher spatial resolution and the only limiting factor is the resolution of input data. In-situ sensors are automated and the data is directly relayed to the world wide web for many hydrological variables such as precipitation, soil moisture, surface temperature and heat fluxes. In addition, satellite remote sensing has advanced to providing twice a day repeat observations at kilometre to ten-kilometre spatial scales. We are at a critical juncture in the study of hydrological extremes, and the GPM and SMAP missions as well as the MODIS and GRACE sensors give us more tools and data than were ever available before. A global variety of chapter authors provides wide-ranging perspectives and case studies that will make this book an indispensable resource for researchers, engineers, and even emergency management and insurance professionals who study and/or manage hydrological extremes.

Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations Jul 24 2019 Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2020), held in Sapporo, Hokkaido, Japan, April 11–15, 2021. This volume consists of a book of extended abstracts and a USB card containing the full papers of 571 contributions presented at IABMAS 2020, including the T.Y. Lin Lecture, 9 Keynote Lectures, and 561 technical papers from 40 countries. The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance, safety, management, life-cycle sustainability and technological innovations of bridges. Major topics include: advanced bridge design, construction and maintenance approaches, safety, reliability and risk evaluation, life-cycle management, life-cycle sustainability, standardization, analytical models, bridge management systems, service life prediction, maintenance and management strategies, structural health monitoring, non-destructive testing and field testing, safety, resilience, robustness and redundancy, durability enhancement, repair and rehabilitation, fatigue and corrosion, extreme loads, and application of information and computer technology and artificial intelligence for bridges, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance, safety, management, life-cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including engineers, researchers, academics and students from all areas of bridge engineering.

Public Sentinel Jan 28 2020 What are the ideal roles the mass media should play as an institution to strengthen democratic governance and thus bolster human development? Under what conditions do media systems succeed or fail to meet these objectives? And what strategic reforms would close the gap between the democratic promise and performance of media systems? Working within the notion of the democratic public sphere, 'Public Sentinel: News Media and Governance Reform' emphasizes the institutional or collective roles of the news media as watchdogs over the powerful, as agenda setters calling attention to social needs in natural and human-caused disasters and humanitarian crises, and as gatekeepers incorporating a diverse and balanced range of political perspectives and social actors. Each is vital to making democratic governance work in an effective, transparent, inclusive, and accountable manner. The capacity of media systems and thus individual reporters embedded within those institutions to fulfill these roles is constrained by the broader context of the journalistic profession, the market, and ultimately the state. Successive chapters apply these arguments to countries and regions worldwide. This study brought together a wide range of international experts under the auspices of the Communication for Governance and Accountability Program (CommGAP) at the World Bank and the Joan Shorenstein Center on the Press, Politics and Public Policy at Harvard University. The book is designed for policy makers and media professionals working within the international development community, national governments, and grassroots organizations, and for journalists, democratic activists, and scholars

engaged in understanding mass communications, democratic governance, and development.

Biomass Burning in South and Southeast Asia May 26 2022 Volume 1 of a two volume set, this book is a self-contained, state-of-the-art analysis of remote sensing, ground-based, and spatial techniques used for characterizing biomass burning events and pollution. It is a collective achievement of renowned scientists working throughout South and Southeast Asia. They discuss the complexity of vegetation patterns, biomass characteristics, fire distribution, drivers of fires, and several examples of the use of novel satellite algorithms for mapping and monitoring biomass burning events. The book is highly interdisciplinary and integrates earth science and environmental science including ecology, fire science, spatial geography, remote sensing, and geospatial technologies. Unique in its discussion of the sources and the causes of biomass burning and atmospheric research in South and Southeast Asia. Explains how remote sensing and geospatial technologies help the mapping and monitoring of biomass burning events and their impacts. Focuses on large spatial scales integrating top-down and bottom-up methodologies. Addresses the pressing issues of environmental pollution that are rampant in South and Southeast Asia. Includes contributions from global experts actually working on biomass burning projects in the US, Japan, South/Southeast Asia, and Europe. This book will serve as a valuable source of information for remote sensing scientists, geographers, ecologists, atmospheric scientists, environmental scientists, and all who wish to advance their knowledge on fires and biomass burning in South/Southeast Asia.

The Sentinel's Necklace (the Chronicles of Sors, Book 1) Aug 05 2020

Microwave Remote Sensing of Sea Ice Mar 31 2020 Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 68. Human activities in the polar regions have undergone incredible changes in this century. Among these changes is the revolution that satellites have brought about in obtaining information concerning polar geophysical processes. Satellites have flown for about three decades, and the polar regions have been the subject of their routine surveillance for more than half that time. Our observations of polar regions have evolved from happenstance ship sightings and isolated harbor icing records to routine global records obtained by those satellites. Thanks to such abundant data, we now know a great deal about the ice-covered seas, which constitute about 10% of the Earth's surface. This explosion of information about sea ice has fascinated scientists for some 20 years. We are now at a point of transition in sea ice studies; we are concerned less about ice itself and more about its role in the climate system. This change in emphasis has been the prime stimulus for this book.