



**TECHNISCHE
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Institut für Photogrammetrie
und Fernerkundung
Professur Fernerkundung



Fernerkundung und angewandte Geoinformatik

Band 17

Vu Xuan Dinh

Application of geographic information system and remote sensing in multiple criteria analysis to identify priority areas for biodiversity conservation in Vietnam



Pu Luong Nature reserve



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**Application of Geographic Information System and
Remote Sensing in Multiple Criteria Analysis to Identify
Priority Areas for Biodiversity Conservation in Vietnam**

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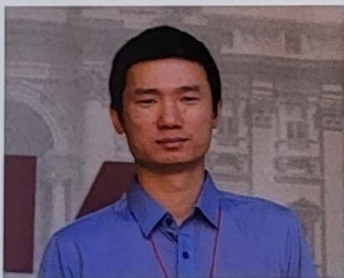
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Biodiversity conservation remains one of the greatest challenges facing the modern world. There has been an increasing need for methods that define biodiversity conservation priorities to demarcate where the need for conservation action is most urgent and where the benefits of conservation strategies might be maximized. However, the deficit of comprehensive data and reliable methods becomes a key challenge that hinders the effectiveness of zoning priority areas for biodiversity conservation. In this book, we have developed a criteria system based on the Pressure – State – Response (PSR) model that integrates biodiversity data together with social data on human pressures and responses. A practical example of identifying priority areas for Pu Luong – Cuc Phuong conservation region has been presented with the application of the suggested criteria system.



Dr. Vu Xuan Dinh works as a lecturer and senior researcher on GIS, Remote Sensing at the Vietnam National University of Forestry. He has 15 years of professional experience in the application of GIS and Remote Sensing in natural resources management. He holds a Master in Tropical Forestry and a Ph.D. in GIS and Remote Sensing at TU Dresden, Germany. Dr. Vu Xuan Dinh specializes in Remote Sensing and GIS for forest inventory and planning, forest monitoring and assessment, land use planning, biodiversity conservation in Vietnam and Southeast Asia. He also has experience transferring advanced technologies in Geodesy, GIS, and Remote Sensing through training courses, seminars, workshops.