Yao Jingtao

Modelling of Land Use Change and Carbon Effects.

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EDUCATION

M. Sc. & Ph.D China Agricultural University
2013.09-present
Major: Soil Biology, Land use Analysis and Application, Land Mangement Issues, Land Resource and Protection, AgriculturL Science & Technology, and Rural development, SAS Statistics Analysis Application, Land Use control, Geometrics and Application, Introduction to Dialectics of Nature, Resources and Environment Information Technology Development, Land Resources Management Issues ..

B. Sc. China Agricultural University
2009.08-2013.06
Major: Land resources Science, Fundamental of Soil Science and Soil Geography,land suevey& evaluation, Economic Geography, Land information system, 3S technology syhthesis practice,Land consolidation & Engineering Design, Land use plannin practice, resources and environment field Practice.

RESEARCH EXPERIENCE

2015.01-present, spatial optimizing land use allocation based on the simulation on carbon effects of land use change for low carbon Beijing, Natural Science Foundation of Beijing, China;
My Work: Developed an land use change predicting and scenario simulation model based on python language; estimate the spatial-temporal change of carbon emissions of human activities on the basis of 100*100 m grids; Field investigate and agricultural survey on the topic of agricultural carbon effect in Beijing.

2013.09-present, Agricultural Land Use Pattern Evolution Simulation in Intensive Agricultural Region of North China Plain: by a Typical Household, NSFC, China;
My Work: Developed an agent based model to simulate and analyse the cultivation type change of farmer householdsin North China Plain; Field investigate and farmer survey in Luancheng county, Hebei Province, China.

2015.06-2015.09, Farmland Rehabilitation Strategy Research in North China Plain, CASS, China.
My Work: Lead a group to conduct farmer Survey in over 100 villiages of 30 counties in North China Plain.

RESEARCH OUTPUT

Recent Publications
1, A gradient algorithm for land use transform matrix analysis and land use change simulation (Research on the Innovation and Development of Land Resources Science in China In a New Era, ISBN: 978755171345D)
2, Scenario simulation of land use change with cross-entropy optimization method (Abstract published in the annual conference of China Society of Natural Resources, 2016)

Patent of Inventions
1, Land Use Change Predicting and Scenario Simulation Model V1.0 (under application)
2, Arable Land Quality Monitering and Updating System V1.0 (No. 2016SR187822)

Important Awards
1, 2016, Youngth Outstanding Paper Award in the annual conference of China Society of Natural Resources;
2, 2013, Louis Dreyfus Scholarship Award;
3, 2013, Outstanding graduates of China Agricultural University;
4, 2013-2016, 3-time of Scholarship Award for graduate student in China Agricultural University;
5, 2009-2013, 3-time of Scholarship Award for undergraduate student in China Agricultural University;

OTHER EXPERIENCE

1, Assit in organizing the ^{6}th Plenary Meeting of the Sino-EU Panel on Land and Soil (SEPLS);
2, Farmland Quality evoluation Programes of 9 counties in Beijing, Inner Mongolia, and Hebei province, China;
3, Land Use General Planning Adjustment program in Balinzuo county, Chifent, Inner Mongolia, China;
4, Land reclamation, land development & land consolidation Planning Programs in Balinzuo and Aohan county, Inner Mongolia, China;
5, Land reclamation designing program of wind power construction in Fengning county, Hebei Province, China.