

مشخصات عضو هیئت علمی دانشکده منابع طبیعی دانشگاه صنعتی اصفهان



نام و نام خانوادگی: رضا جعفری

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تخصص: سنجش از دور

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سوابق تحصیلی

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کارشناسی: مهندسی منابع طبیعی- رشته مرتع و آبخیزداری- دانشگاه تهران- سال ۱۳۷۸

کارشناسی ارشد: مهندسی منابع طبیعی- رشته بیابان زدایی- دانشگاه تهران- سال ۱۳۸۰

دکتری: از دانشگاه ادلاید استرالیا در سال ۱۳۸۶

موضوع تز دکتری:

Arid Land Condition Assessment and Monitoring Using Multispectral and Hyperspectral Imagery

رتبه های کسب شده

- نفر اول آزمون کارشناسی ارشد کشوری رشته بیابان زدایی - سال ۱۳۷۸

- رتبه اول دوره کارشناسی ارشد رشته بیابان زدایی

- نفر اول آزمون دکتری اعزام به خارج از وزارت علوم تحقیقات و فناوری در سال ۱۳۸۰

- کسب جایزه بهترین تحقیق دوره دکتری در زمینه سنجش از دور از دانشگاه ادلاید استرالیا ۱۳۸۵

عضویت در انجمن های علمی

- عضویت در گروه سنجش از دور دانشگاه ادلاید استرالیا

- عضو علی البدل هیئت مدیره انجمن سنجش از دور و GIS ایران

زمینه های تحقیقاتی

- کاربرد سنجش از دور و GIS در مدیریت منابع طبیعی، کشاورزی و مناطق شهری

- سنجش از دور فراطیفی

- طیف سنجی

- کاربرد سنجش از دور چند طیفی و فراطیفی در مناطق خشک و نیمه خشک

- مدلینگ ارزیابی و پایش تخریب اراضی

- ژئومرفولوژی

راهنمایی دانشجویان کارشناسی ارشد

- عابدی رنانی مائده. شناسایی کانون های گرد و غبار استان اصفهان با استفاده از داده های ماهواره ای و زمینی

Dust source identification in Isfahan Province using satellite and field data

- علیدادی شمس آبادی، سمانه. پیش بینی، مسیر یابی و پهنه بندی ریزگردها با استفاده از مدل های HYSPLIT،

WRF و تصاویر ماهواره ای

- همدم جو، مهران. بررسی تغییرات مکانی خصوصیات فیزیکی و شیمیایی ریزگردهای استان کرمان، ایران

- شمشیری، س. پهنه بندی گرد و غبار با استفاده از داده های ماهواره ای مودیس (مطالعه موردی: استان کرمانشاه)

- مهرابی، ش. پهنه بندی گرد و غبار با استفاده از داده های ماهواره ای مودیس (مطالعه موردی: استان خوزستان)

- فتحی، م. مقایسه مدل های FAO-UNEP، MEDALUS و MICD به منظور پهنه بندی شدت بیابان زایی (مطالعه

موردی: منطقه جرقویه سفلی، استان اصفهان)

- جبال، ع. پایش حرکت تپه های شنی منطقه حسن آباد-جرقه اصفهان با استفاده از تصاویر ماهواره ای

- حسینی، ز. اثر دفع پسماندهای کارخانجات سنگبری بر بیابان زایی در منطقه اصفهان با استفاده از سنجش از دور

- پروانه، ح. ارزیابی وضعیت فعلی بیابان زایی در خراسان جنوبی با استفاده از روش مدالوس

- محمودی، ف. بررسی قابلیت داده های سنجش از دور در تهیه نقشه شوری و قلیائیت خاک در منطقه جنوب شرق

اصفهان

- خنامانی، ع. ارزیابی بیابانزایی در شرق اصفهان با استفاده از مدل مدالوس

- فتاحی، ح. اثر خشک شدن تالاب بین المللی گاوخونی بر فرآیند بیابانزایی
- بوعلی، عبدالحسین. تهیه نقشه و ارزیابی بیابان زایی با استفاده از مدل مدالوس و شبکه های باوریزین
- هاشمی نسب، سیده نگار. پایش بیابان زایی با استفاده از داده های حرارتی و انعکاسی سنجنش از دور
- حسنی آزاده. پایش زوال پوشش گیاهی شهرستان ایلام به کمک داده های حرارتی و انعکاسی ماهواره ای

Vegetation decline monitoring using satellite thermal and reflectance data, Ilam province

- گرگین پور داریوش. مقایسه کارایی مدل های IRIFER و LUIM در ارزیابی فرسایش بادی دشت سگری استان اصفهان

Comparing the performance of IRIFER and LUIM models in wind erosion assessment, Segzi Plain, Isfahan Province

- اسکندری دامنه هادی. پهنه بندی مناطق حساس به تخریب اراضی در مقیاس منطقه ای بر پایه داده های ماهواره ای
- #### Mapping sensitive areas to land degradation based on satellite data at regional scale
- مشهدی خوراسگانی اکرم. ارزیابی و پایش تخریب اراضی در جنوب اصفهان بکمک تکنیک های سنجنش از دور و زمین آمار (مطالعه موردی شهرستان سمیرم اصفهان)

Land Degradation Assessment and Monitoring in South of Isfahan Province Using Remote Sensing and Geostatistical Techniques

- علی اکبری، م. تعیین رویشگاه های بالقوه دو گونه مرتعی *Astragalus verus* و *Agropyron trichophorum* با استفاده از تلفیق سنجنش از دور و سامانه های اطلاعات جغرافیایی در منطقه فریدن استان اصفهان.
- هادیان، ف. پایش تغییرات پوشش گیاهی مرتعی منطقه سمیرم با استفاده از داده های ماهواره ای
- رضائی، ن. تهیه نقشه و پایش تغییرات کاربری اراضی حوزه کال شور خراسان شمالی با استفاده از تصاویر ماهواره ای
- عندلیبی، ل. بررسی عملکرد چشم اندازها با استفاده از داده های سنجنش از راه دور
- مشتاق، ن. بررسی پتانسیل داده های ماهواره ای به منظور برآورد تبخیر و تعرق در مناطق نیمه خشک
- فرازمنند، م. مقایسه روش های پیکسلی و تحت پیکسلی در پهنه بندی پوشش گیاهی (مطالعه موردی: منطقه سمیرم، استان اصفهان)

- عباسی، ن. پهنه بندی پتانسیل آتش سوزی در عرصه های مرتعی و جنگلی با استفاده از تکنیک های سنجنش از دور و شاخص خشکی کچ - بایرام

- - جعفری کرجائی، فاطمه. ۱۳۹۲. تحلیل ساختار و عملکرد مراتع با استفاده از داده های سنجنش از دور و روش زمینی

LFA

- - حبیبی، حمیده. تلفیق مدل های LUIM و شبکه های باور بیزین برای پهنه بندی و ارزیابی ریسک فرسایش خاک در

حوزه آبخیز کرچمبوی، استان اصفهان

- - زورمندطرزجانی، سمانه. پایش خشکسالی با استفاده از شاخص های سنجنش از دور و اقلیمی در استان خراسان رضوی

- - نوریان نجف آبادی، مجتبی. آشکارسازی اثرات خشکسالی بر روند تغییرات پوشش اراضی غرب استان اصفهان با

استفاده از داده های هواشناسی

- - آسوده، مجید. مطالعه اثرات اقتصادی تغییرات کاربری و پوشش اراضی از طریق روشهای سنجنش از دور و مطالعات

پیمایشی درحوزه خفر-سیور اصفهان

- - زارع کندازی صدیقه. پهنه بندی خطر آتش سوزی در اراضی طبیعی شهرستان مرودشت با توجه به عوامل محیطی و

اجتماعی

Fire risk mapping incorporating peripheral and social factors in Marvdasht natural lands

- - داودی لاله. پتانسیل سنجی داده های فراطیفی هایپریون در استخراج عضوهای پایانی (مطالعه موردی: شهرستان اصفهان)

The Potential of Hyperion Hyperspectral Data InEndmember Extraction(Case Study:
Isfahan County)

- - شمشیری فرناز. پهنه بندی مناطق رویشی استان اصفهان با استفاده از تولیدات ماهواره ای

Phytogeographical mapping of Isfahan Province using satellite products

- - طائی محمد. تلفیق مدل LUIM و شبکه باوربیزین برای پهنه بندی و ارزیابی خطر فرسایش در حوزه قره آقاچ شهرستان

سمیرم

Integrating Land Use Impact Model and Bayesian Belief Network to Map and Assess the Risk
of Water Erosion

- - محمدی فارسانی یاسر. بررسی تغییرات پوشش و کاربری اراضی دشت بهشت آباد استان چهار محال و بختیاری با

استفاده از تکنیک های سنجنش از دور

Studying land use and land cover changes of behesht abad plain Chaharmahal va Bakhtiari
province using remote sensing techniques

- سبزی علی پورسراب سعیدی مژگان. کاربرد روش سلامت مرتع و متریک-های سنجش از دور در ارزیابی عملکرد مراتع قمیشلو و فریدون شهر

Application of rangeland health method and remotely sensed metrics in rangeland function assessment of Ghamishlou and Fereidonshtar regions, Isfahan province

- عزیزی بهرام ولی الله . تهیه نقشه تغییرات پوشش برف و شبیه سازی رواناب حاصل از ذوب برف با استفاده از مدل SRM و سنجش از دور (حوزه همدان-بهار)

Mapping Snow Cover Changes and Simulating Snow Melt Runoff Using SRM Model and Remote Sensing (Hamedan-Bahar Area)

پروژه های اجرا شده

- مجری طرح " طرح شناسایی و پهنه بندی مناطق حساس به بحران بیابان زایی استان اصفهان"- بخشی از طرح " طرح جامع مدیریت بحران استان اصفهان"، قرارداد شماره ۲۰/۴۴/۱۷۷۱۲۴ مورخ ۱۳۸۸/۹/۳۰

- مجری طرح "تولید نرم افزار پهنه بندی ریزگردها بر اساس داده های ماهواره ای"- صندوق حمایت از فناوران و پژوهشگران کشور

کتاب منتشر شده

- جعفری، ر. ۱۳۸۹. سنجش از دور فراطیفی (اصول و کاربردها) (ترجمه). سازمان انتشارات جهاد دانشگاهی. تهران.

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