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IR workflow management system using Web of Science and Ref Works

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IR Workflow Management System

Using Web of Science and RefWorks

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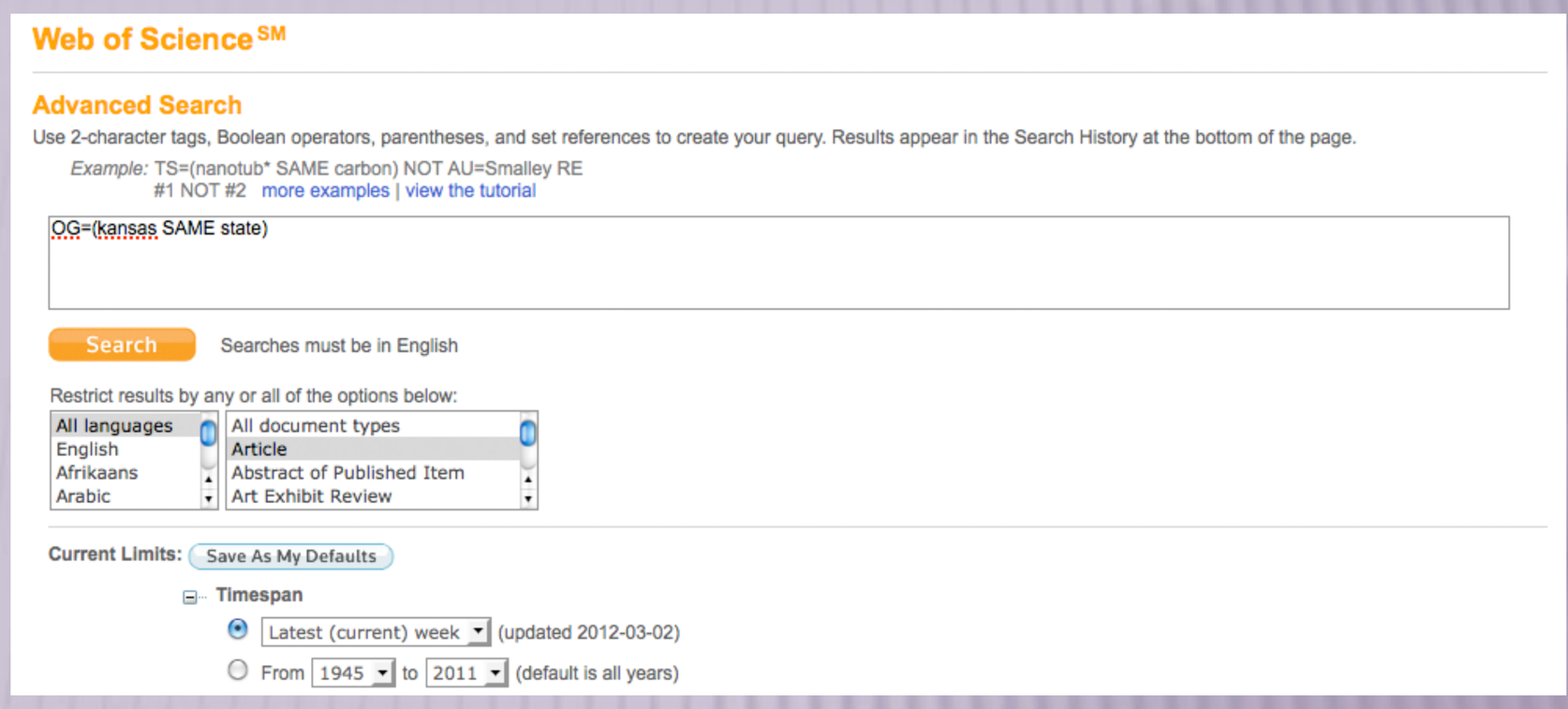
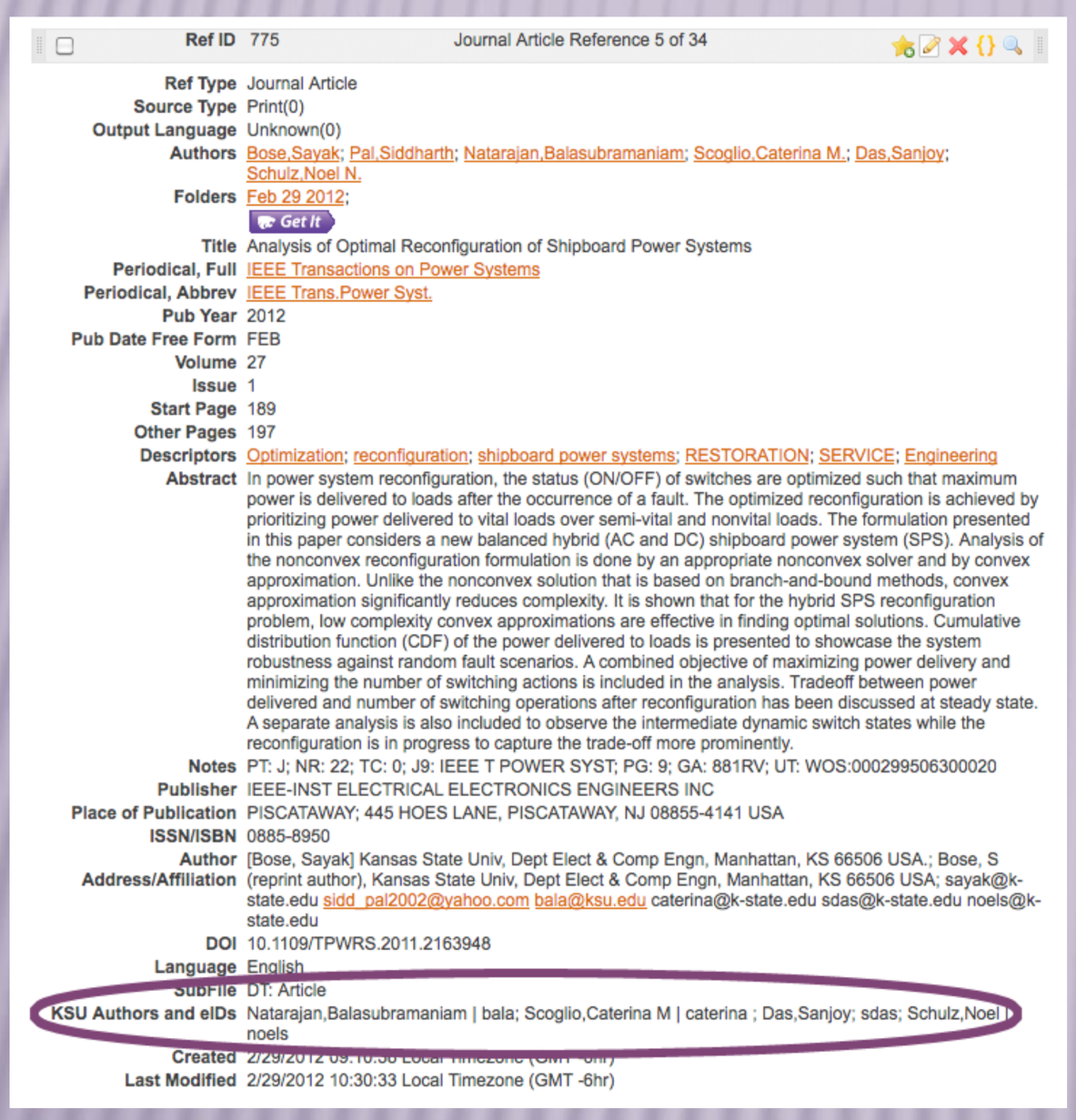
Kansas State University | Libraries

A major component of OA outreach at K-State Libraries is using weekly search alerts to identify recent articles authored by KSU faculty. We then export the results into citation management software.





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Authors	Bose,Sayak; Pal,Siddharth; Natarajan,Balasubramaniam; Scoglio,Caterina M.; Das,Sanjoy; Schulz,Noel N.
Folders	Feb 29 2012;
	Get It
Title	Analysis of Optimal Reconfiguration of Shipboard Power Systems
Periodical, Full	IEEE Transactions on Power Systems
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Pub Year	2012
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Volume	27
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Descriptors	Optimization; reconfiguration; shipboard power systems; RESTORATION; SERVICE; Engineering
Abstract	In power system reconfiguration, the status (ON/OFF) of switches are optimized such that maximum power is delivered to loads after the occurrence of a fault. The optimized reconfiguration is achieved by prioritizing power delivered to vital loads over semi-vital and nonvital loads. The formulation presented in this paper considers a new balanced hybrid (AC and DC) shipboard power system (SPS). Analysis of the nonconvex reconfiguration formulation is done by an appropriate nonconvex solver and by convex approximation. Unlike the nonconvex solution that is based on branch-and-bound methods, convex approximation significantly reduces complexity. It is shown that for the hybrid SPS reconfiguration problem, low complexity convex approximations are effective in finding optimal solutions. Cumulative distribution function (CDF) of the power delivered to loads is presented to showcase the system robustness against random fault scenarios. A combined objective of maximizing power delivery and minimizing the number of switching actions is included in the analysis. Tradeoff between power delivered and number of switching operations after reconfiguration has been discussed at steady state. A separate analysis is also included to observe the intermediate dynamic switch states while the reconfiguration is in progress to capture the trade-off more prominently.
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Exporting into citation management software allows us to:

- Maintain bibliographic data for the articles
- Use user defined fields for additional notes, such as eID of the authors
- Group articles in folders according to their progress in the workflow
- Attach manuscripts to the citation record as they are sent in by authors
- Generate a pre-formatted citation list for the promotional emails.

Using this software gives the flexibility of having multiple people on the project, while always knowing where an article is in the workflow.

This approach has enabled us to increase the number of items deposited, cut down on processing time, and interest a greater number of faculty in depositing their work.

Although we have used Web of Science and RefWorks, most institutions have access to other interdisciplinary databases and citation managers that can serve this purpose.