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Agronomie 24 (2004) 305-313  
DOI: 10.1051/agro:2004030

**Adaptation of the STICS model to subsurface drained soils**

**Julien Tournebize<sup>a</sup>, Cyril Kao<sup>a</sup>, Nenad Nikolic<sup>a</sup> and Daniel Zimmer<sup>b</sup>**

<sup>a</sup> Cemagref, Drainage and Barrier Engineering Research Unit, Parc de Tourvoie, BP 44, 92163 Antony Cedex, France

<sup>b</sup> World Water Council, Les Docks de la Joliette, Atrium 10.3, 10 place de la Joliette, 13002 Marseille, France

(Received 16 July 2003; accepted 17 November 2003)

**Abstract** - The generic crop model STICS was modified to take into account shallow water-table fluctuations and subsurface drainage in the context of French waterlogged soils. This was accomplished by incorporating a subsurface drainage component into STICS code. The SIDRA (Simulation du Drainage) model was adapted to a daily time-step. For the dimensional aspect, the passage from two-dimensional drainage functioning to STICS one-dimensional conceptualization is done by taking an average water elevation between drain and mid-drain spacing. Simulation performances of the new STICS were evaluated by comparing its predictions with six years (1979-1983 and 1985-1986) of measured data from the field experiment of Arrou, located in northern France. Comparisons of STICS predictions with the measurements of drain-flow rates, total drained volumes and

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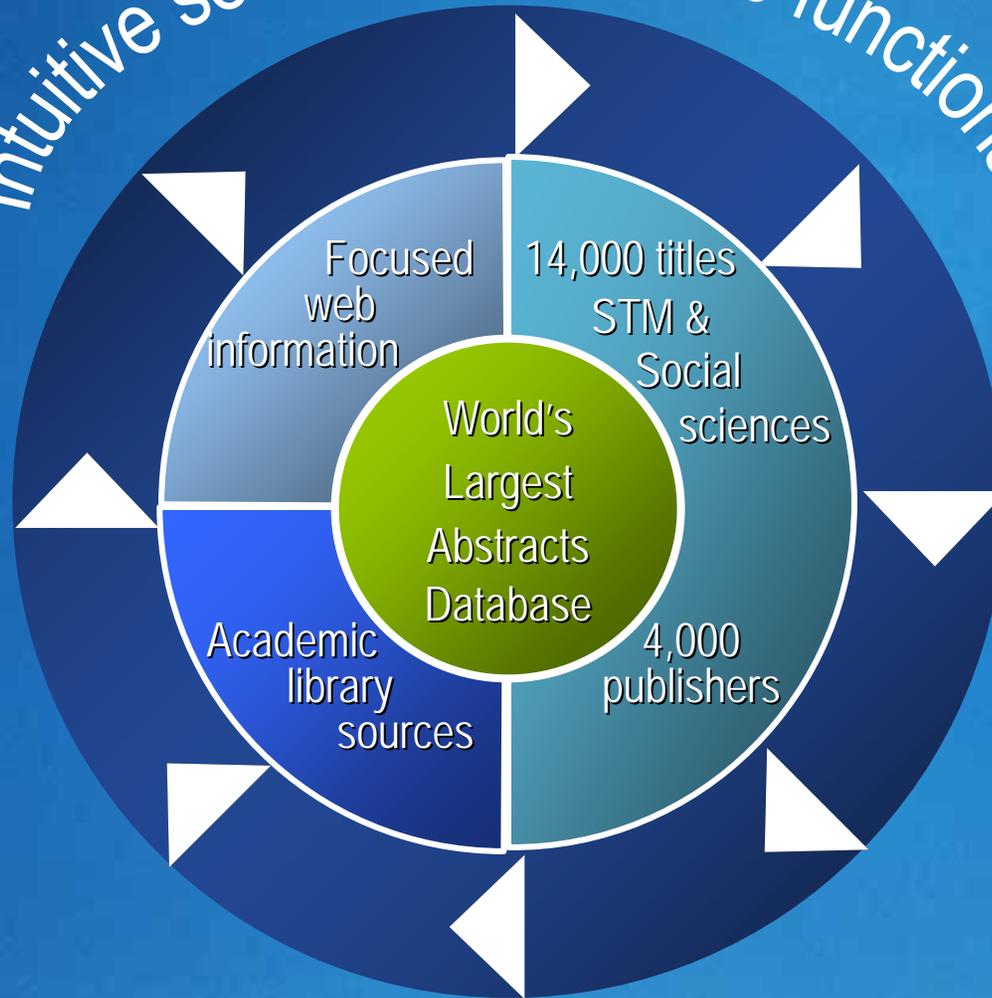
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<input type="checkbox"/> Gene Therapy (1,429) <input type="checkbox"/> Human Gene Therapy (1,029) <input type="checkbox"/> Molecular Therapy (773) <a href="#">More...</a>	<input type="checkbox"/> Curiel, D.T. (231) <input type="checkbox"/> Kaneda, Y. (176) <input type="checkbox"/> Morishita, R. (150) <a href="#">More...</a>	<input type="checkbox"/> 2005 (37) <input type="checkbox"/> 2004 (4,706) <input type="checkbox"/> 2003 (5,544) <a href="#">More...</a>	<input type="checkbox"/> Article (26,856) <input type="checkbox"/> Review (9,864) <input type="checkbox"/> Short Survey (683) <a href="#">More...</a>	<input type="checkbox"/> Health (28,376) <input type="checkbox"/> Agricultural and Biological Sciences (21,828) <input type="checkbox"/> Life Sciences (19,210) <a href="#">More...</a>

Results: 38,464 **Entitled Full Text Checked with Library** Results 1 to 20

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Date	Document (Sort by relevance)	Author(s)	Source Title	Cited By
1. <input type="checkbox"/> 2005	<b>ERBB2 amplifications in esophageal adenocarcinoma</b> <input type="button" value="Abstract + Refs"/> <input type="button" value="View at Publisher"/> <input <="" td="" type="button" value="Contacting Library..."/> <td><a href="#">Dahlberg, P.S.</a>, <a href="#">Jacobson, B.A.</a>, <a href="#">Dahal, G.</a>, <a href="#">Fink, J.M.</a>, <a href="#">Kratzke, R.A.</a>, <a href="#">Maddaus, M.A.</a>, <a href="#">Ferrin, L.J.</a></td> <td><i>Annals of Thoracic Surgery</i> 78 (5), 1790-1800</td> <td>0</td>	<a href="#">Dahlberg, P.S.</a> , <a href="#">Jacobson, B.A.</a> , <a href="#">Dahal, G.</a> , <a href="#">Fink, J.M.</a> , <a href="#">Kratzke, R.A.</a> , <a href="#">Maddaus, M.A.</a> , <a href="#">Ferrin, L.J.</a>	<i>Annals of Thoracic Surgery</i> 78 (5), 1790-1800	0
2. <input type="checkbox"/> 2005	<b>The use of chitosan as a condensing agent to enhance emulsion-mediated gene transfer</b> <input type="button" value="Abstract + Refs"/> <input type="button" value="View at Publisher"/> <input <="" td="" type="button" value="Contacting Library..."/> <td><a href="#">Lee, M.-K.</a>, <a href="#">Chun, S.-K.</a>, <a href="#">Choi, W.-J.</a>, <a href="#">Kim, J.-K.</a>, <a href="#">Choi, S.-H.</a>, <a href="#">Kim, A.</a>, <a href="#">Oungbho, K.</a>, (...), <a href="#">Kim, C.-K.</a></td> <td><i>Biomaterials</i> 26 (14), 2147-2156</td> <td>0</td>	<a href="#">Lee, M.-K.</a> , <a href="#">Chun, S.-K.</a> , <a href="#">Choi, W.-J.</a> , <a href="#">Kim, J.-K.</a> , <a href="#">Choi, S.-H.</a> , <a href="#">Kim, A.</a> , <a href="#">Oungbho, K.</a> , (...), <a href="#">Kim, C.-K.</a>	<i>Biomaterials</i> 26 (14), 2147-2156	0
3. <input type="checkbox"/> 2005	<b>Enhanced neovasculture formation in ischemic myocardium following delivery of pleiotrophin plasmid in a biopolymer</b> <input type="button" value="Abstract + Refs"/> <input type="button" value="View at Publisher"/> <input <="" td="" type="button" value="Contacting Library..."/> <td><a href="#">Christman, K.L.</a>, <a href="#">Fang, Q.</a>, <a href="#">Yee, M.S.</a>, <a href="#">Johnson, K.R.</a>, <a href="#">Sievers, R.E.</a>, <a href="#">Lee, R.J.</a></td> <td><i>Biomaterials</i> 26 (10), 1139-1144</td> <td>0</td>	<a href="#">Christman, K.L.</a> , <a href="#">Fang, Q.</a> , <a href="#">Yee, M.S.</a> , <a href="#">Johnson, K.R.</a> , <a href="#">Sievers, R.E.</a> , <a href="#">Lee, R.J.</a>	<i>Biomaterials</i> 26 (10), 1139-1144	0
4. <input type="checkbox"/> 2005	<b>Metalloproteinase and cytokine production by THP-1 macrophages following exposure to chitosan-DNA nanoparticles</b> <input type="button" value="Abstract + Refs"/> <input type="button" value="View at Publisher"/> <input <="" td="" type="button" value="Contacting Library..."/> <td><a href="#">Chellat, F.</a>, <a href="#">Grandjean-Laquerriere, A.</a>, <a href="#">Le Naour, R.</a>, <a href="#">Fernandes, J.</a>, <a href="#">Yahia, L'H.</a>, <a href="#">Guenounou, M.</a>, <a href="#">Laurent-Maquin, D.</a></td> <td><i>Biomaterials</i> 26 (9), 961-970</td> <td>0</td>	<a href="#">Chellat, F.</a> , <a href="#">Grandjean-Laquerriere, A.</a> , <a href="#">Le Naour, R.</a> , <a href="#">Fernandes, J.</a> , <a href="#">Yahia, L'H.</a> , <a href="#">Guenounou, M.</a> , <a href="#">Laurent-Maquin, D.</a>	<i>Biomaterials</i> 26 (9), 961-970	0

# Customer-defined links

- To link with one click to additional resources, for example
  - OPACs or collective library catalogues (such as SUDOC)
  - Free resources (such as Scirus)
  - Subscription-based databases (such as Ulrich's)

[View at Publisher](#)[Full Text](#)[SCIRUS](#)[Sudoc - Catalogue](#)

The Scopus logo is located in the top right corner. It consists of the word "SCOPUS" in a bold, white, sans-serif font, enclosed within a white oval. Several thin white lines radiate from the bottom and sides of the oval, suggesting a sun or a light source.

**SCOPUS**

# How did we develop Scopus

[www.scopus.com](http://www.scopus.com)

# Why Develop Scopus?

- Navigation is the Next Big Thing:
  - There is simply too much information available
  - And too little time to search it all
  - On the web, in databases, in libraries
- Users and librarians told us they want
  - A simple, single entry-point to the world's scientific information
  - Easy to use
  - Combining official publications and everything on the web
  - Integrated with other library resources
  - And with the full text only one click away
- Elsevier wants to supply scientists with workflow tools that increase their productivity

# Why Develop Scopus?

“Will Google find all the scholarly literature I need?”

“I want to skip, not miss articles”

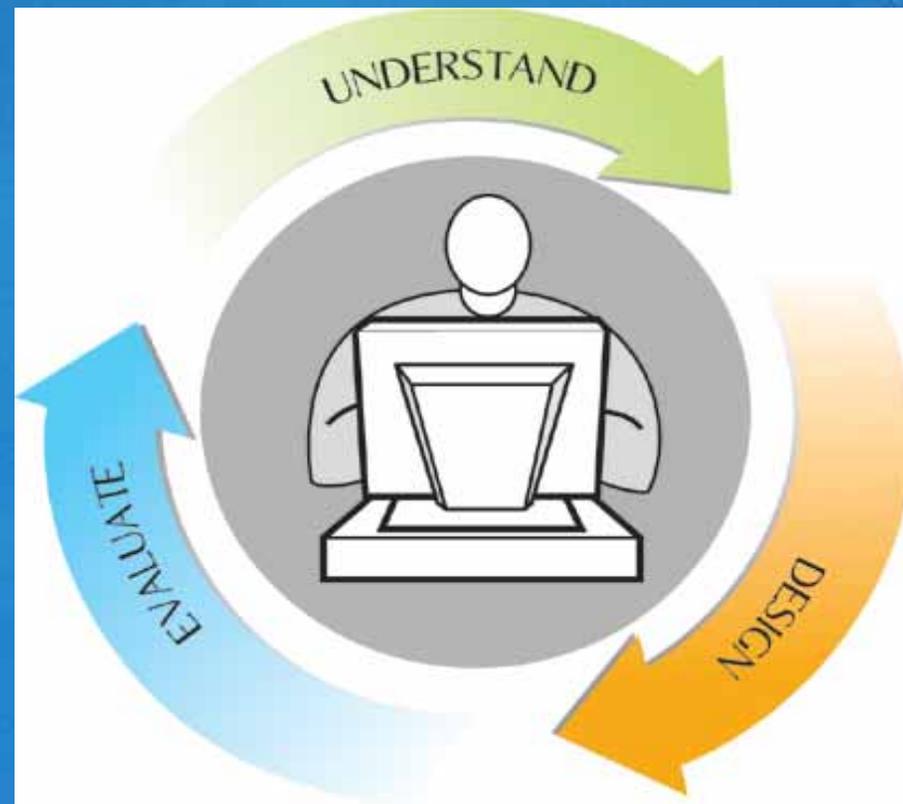
“How do I know what is relevant to my work?”

“I want to help my users do their research more effectively, but they don't come to the library anymore”

“There's always more information”

# Starting from the users' needs

- If we understand the researcher workflow we can design better products
- So we significantly invest in user-based design



# The scientist

- Over last 2 years, Elsevier conducted focus groups and onsite observation with scientists
- To document the way in which scientists:
  - Search for
  - Find and
  - Evaluate scientific literature and information



# How we conduct usability testing

- Sit together at user's site
- Use combination of functional prototype and static pages
- One hour structured interview
  - *Discuss professional background, current research, level of computer expertise, information sources they use*
- Let user explore the prototype, doing searches, minimal prompting
- Go through specific parts of the product and let user do specific tasks, stimulate 'thinking aloud'
- User carries out work and explains

# Learned to facilitate the major tasks

- Finding new articles in a familiar subject field
- Finding author-related information
  - articles by a specific author
  - information that would help in evaluating a specific author
- Staying up-to-date
- Getting an overview or understanding of a new subject field

# Scopus for Scientists

- Designed and developed with users to meet their needs:
  - better navigation through the research literature
  - easy evaluation of scientific information
- Scientists want to find the information they need not become expert searchers
- They want a tool that's as easy to use as web search but delivers precise results
- That takes them to the full-text article they're subscribed to in just one click

# Frequent User comments

“I found articles I couldn't find in other databases”

“You always get useful results, always relevant”

“This is searching for dummies...”

“I did my grant application in half the time”

“I can follow a path and never hit a dead end”

## Remember just 4 things:

1. Users who've tested it say they find more, faster - and Librarians like you helped develop it
2. Scopus increases the visibility and usage of your full text investments
3. It's the biggest but it doesn't feel like it – quality content plus smooth navigation
4. Scopus is easy to implement and comes as a complete service package

wouldn't you?

**SCOPUS**

