

## **Basic Principles of SSM Modeling: An Examination of CATWOE From a Soft Perspective**

**Birgitta Bergvall-Kåreborn,<sup>1,3</sup> Anita Mirijamdotter,<sup>1</sup> and Andrew Basden<sup>2</sup>**

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This paper examines the SSM technique CATWOE, which focuses on defining necessary elements that together constitute a human activity system from a certain perspective. Despite its recognition within the literature and its numerous uses, there are few studies on how the technique can be improved. This research reflects on each of the elements both from a theoretical and a practical perspective. Findings point to the fact that some of the terms have a meaning in everyday language that differs from its definition within CATWOE. Other concepts are not well-defined. This is unfortunate and may both lead to misunderstandings and limit analysis. The paper points to a number of ways in which the use of CATWOE can be developed in order to further support the process of eliciting novel ideas for future actions. Hence, the overall conclusion is that the elements need to be rethought and some of them renamed.

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**KEY WORDS:** Soft Systems Methodology (SSM); CATWOE; modeling; interpretivism.

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### **1. INTRODUCTION**

In systems design, modeling is of central importance since it is through this activity that the new system is visualized. The aim of modeling is usually to represent a current situation as well as a new future situation that may be implemented. However, the extent to which we can model something new is limited to our personal perspectives and to what is considered culturally possible to achieve. Therefore, good tools for modeling that help us see a situation in new perspectives as well as question our assumptions are of vital importance.

One well-known approach to systems design that focuses on explicating different perspectives is Soft Systems Methodology (SSM) (Checkland, 1981; Checkland and Holwell, 1997; Checkland and Scholes, 1999; Wilson, 1992, 2001).

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# Ssm Intro Regress Modeling

**Hiroyuki Yoshida, David  
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the intractable solution These methods enjoy well understood statistical properties but are often computational prohibitive to employ The main contribution of this thesis is the exploration of different strategies for accelerating inference methods based on sequential Monte Carlo SMC and Markov chain Monte Carlo MCMC That is strategies for reducing the computational effort while keeping or improving the accuracy A major part of the thesis is devoted to proposing such strategies for the MCMC method known as the particle Metropolis Hastings PMH algorithm We investigate two strategies i introducing estimates of the gradient and Hessian of the target to better tailor the algorithm to the problem and ii introducing a positive correlation between the point wise estimates of the target Furthermore we propose an algorithm based on the combination of SMC and Gaussian process optimisation which can provide reasonable estimates of the posterior but with a significant decrease in computational effort compared with PMH Moreover we explore the use of sparseness priors for approximate inference in over parametrised mixed effects models and autoregressive processes This can potentially be a practical strategy for inference in the big data era Finally we propose a general method for increasing the accuracy of the parameter estimates in non linear state space models by applying a designed input signal

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jlga modeller p ett mer effektivt s tt Vi f resl r ett antal olika kombinationer och f r ndringar av befintliga metoder f r att snabba upp anpassningen av modellen till observationerna Vi visar att ber kningstiden i vissa fall kan minska ifr n n gra dagar till n gon timme F rhoppningsvis kommer detta i framtiden leda till att man i praktiken kan anv nda mer avancerade modeller som i sin tur resulterar i b ttre prognoser och beslut

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*Advances in Intelligent Data Analysis IX* Paul R. Cohen, Niall M. Adams, Michael R. Berthold, 2010-05-11 Annotation This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Data Analysis IDA 2010 held in Tucson AZ USA in May 2010 The 21 revised papers presented together with 2 invited papers were carefully reviewed and selected from more than 40 submissions All current aspects of intelligent data analysis are addressed particularly intelligent support for modeling and analyzing complex dynamical systems Topics covered are end to end software systems modeling complex systems such as gene regulatory networks economic systems ecological systems resources such as water and dynamical social systems such as online communities and robustness scaling properties and other usability issues

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