

22<sup>nd</sup> International Conference on Conceptual Modeling

## ER 2003- Workshop Proposal

Evanston (Illinois), USA

October 13-16, 2003

<http://sunsite.informatik.rwth-aachen.de/Societies/ER2003Workshops/>

### **Workshop Title:**

## System Modeling Methods and Their Ontological Evaluation

**Workshop topic:** The workshop aims at covering issues related to paradigms, approaches and methods for modeling of systems, and how they can be evaluated by ontology-based tools. The workshop will focus on the following issues and research questions:

1. Is the OO paradigm necessary and/or sufficient to specify complex systems?
2. Weaving information systems into complex engineering systems: Is there a unifying paradigm or a principal difference between engineering systems in general and information systems in particular?
3. How can method engineering streamline the development and assessment of modeling, analysis and design methods?
4. UML: Pros and Cons. Is it an adequate notation for modeling systems? What chance do other modeling languages have when faced with the industry endorsement of UML?
5. Balancing function, structure and behavior in systems analysis and design
6. The role of models in building quality systems
7. Can a universal ontology be useful in generic systems specification?
8. The different uses of modeling for describing the problem domain, being the substance of the design, and creating a model of the domain inside the information system.

**Audience:** The prospective audience consists of researchers from both academia and industry. The expected number of attendees is between 10 and 15. A balanced mix of these two types of attendees will foster lively and productive dialogue.

### **Program committee:**

Brian Henderson-Sellers (Co-Chair)

Dov Dori (Co-Chair)

Yair Wand

Keng Siau

Mohamed Fayad

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**BRIAN HENDERSON-SELLERS** is Director of the Centre for Object Technology Applications and Research and Professor of Information Systems at University of Technology, Sydney (UTS). He is author of eleven books on object technology and is well-known for his work in OO methodologies (MOSES, COMMA, OPEN, OOSPICE) and in OO metrics. Brian has been Regional Editor of Object-Oriented Systems, a member of the editorial board of Object Magazine/Component Strategies and Object Expert for many years and is currently on the editorial board of Journal of Object Technology and Software and Systems Modelling. He was the Founder of the Object-Oriented Special Interest Group of the Australian Computer Society (NSW Branch) and Chairman of the Computerworld Object Developers' Awards committee for ObjectWorld 94 and 95 (Sydney). He is a frequent, invited

speaker at international OT conferences. In 1999, he was voted number 3 in the Who's Who of Object Technology (Handbook of Object Technology, CRC Press, Appendix N). He is currently a member of the Review Panel for the OMG's Software Process Engineering Model (SPEM) standards initiative and is a member of the UML 2.0 review team. In July 2001, Professor Henderson-Sellers was awarded a Doctor of Science (DSc) from the University of London for his research contributions in object-oriented methodologies.

**DOV DORI** is Associate Professor of Information Systems Engineering at the Faculty of Industrial Engineering and Management, Technion, Israel Institute of Technology, and Research Affiliate at MIT, Cambridge. Between 1999-2001 he was Visiting Associate Professor at MIT's Engineering Systems Division and Visiting Scholar at Sloan School of Management. Dov Dori received his Ph.D. in Computer Science from Weizmann Institute of Science, Rehovot, Israel, in 1988. His research interests include Systems Development Methodologies, Information Systems Engineering, and Computer-Aided Software Engineering. He developed Object-Process Methodology (OPM), which is a holistic systems paradigm, presented in his 2002 book (by Springer). He won several awards, including the Hershel Rich Technion Innovation Award for the development of OPCAT-Object-Process CASE Tool, which supports OPM and generates natural language from graphics on the fly. He is Associate Editor of International Journal of Document Analysis and Recognition and is on the Editorial Board of the International Journal of Web Engineering Technologies and International Journal of Pattern Recognition and Artificial Intelligence. He was Associate Editor of IEEE Transaction on Pattern Analysis and Machine Intelligence (T-PAMI). He is author/co-editor of four books, over 70 journal papers and book chapters, and 60 conference publications. He is Fellow of the International Association for Pattern Recognition (IAPR) and Senior Member of IEEE.

**Significance:** relate your workshop to the topics of the ER conference. Which are similar workshops at other conferences?

**Duration/equipment:** One day; laptop projector

Workshop proposals should explain how they intend to increase the insight into a certain area. The topics of the workshop should encompass only some of the topics of the main conference. Workshop organizers should take care that their schedule allows to distribute preprint workshop materials at the workshop date. Proceedings of all ER workshops are to be published as a single volume of Springer-Verlag LNCS to be **published and distributed at the ER 2003 conference**.

Workshop proposals are reviewed by an independent board of experts based on the quality of the proposal, its relation to the main ER topics, and the likelihood to attract enough participants. More information on submission guidelines are on <http://sunsite.informatik.rwth-aachen.de/Societies/ER2003Workshops/guidelines.html>

## Important Dates

Proposal submission : December 6, 2002

Notification of acceptance: January 17, 2002

Workshop Call for Papers: January 31, 2003

Workshop paper submission: around March 2003, at discretion of workshop organizers

Camera-ready workshop papers due: June 6, 2003

## Submissions

Electronic submission of workshop proposals is required. Postscript or PDF format are preferred. Paper and fax submissions will not be accepted.

Proposals should follow the guidelines, and they should be submitted no later than December 6 to the ER2003 workshop chairs

Óscar Pastor  
*Polytechnic University of Valencia, Spain*  
E-mail: [opastor@dsic.upv.es](mailto:opastor@dsic.upv.es)

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*Tilburg University, The Netherlands*  
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9. I am intrigued by Michael Jackson's paper (SoSyM vol 1 no 1) on essentially this topic. I would very much like to explore those ideas which include the different use of modelling in (a) describing the problem domain versus (b) being the substance of the design versus (c) creating a model of the domain inside the information system.

10. Suggest one day workshop

11. My brief bio for inclusion reads:

#### BRIEF BIO

Hope all that helps for your next draft. Note I am travelling as of Nov 3 so it would be good to finalize before then.

BTW The group you have as the Programme Committee looks good.

Regards

Brian

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and Professor of Information Systems  
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