



**Dietz Engineered a Marvelous Ontology!**

Professor José Tribolet  
David Aveiro, Ph.D. Student



Department of Computer  
Science and Engineering

Instituto Superior Técnico



**16 OCTOBER 2009  
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**Dietz Engineered  
a Marvelous Ontology !**




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**“The ontological model of a  
world is the specification of its  
state space and its transition  
space.”**

**J. Dietz**

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**The world is a system of agents,  
producing facts, as time flows.**



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**Dietz distinguishes  
2 types of facts:  
P – Facts  
C – Facts**



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**The P and C facts occur in the  
Organization World, governed by  
Rules.**

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**The set of Rules that govern an  
Organization World constitute its  
Ontological Model**

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**The Ontological Model is,  
at present,  
not part of  
the Organization World**

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**At present,  
DEMO  
does not contemplate  
changes in the state of  
the Ontological Model**

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**Our gift to**  
**DEMO's Creator:**

**Applying DEMO to capture the**  
**full, dynamic,**  
**organization lifecycle!**

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**How?**

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**Including the Ontological Model  
of the Organization World  
in the  
Organization World**

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**It's called,....**


**.... Recursion!**

**A very powerful idea!**

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**Changes of the  
ontological model involve  
C- Facts**

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**The rules of  
the ontological model are  
P-FACTS**

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**Engineering Transactions  
create  
these P-facts**

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**Our research proposes  
a way to apply DEMO  
to accommodate  
ORGANIZATIONAL CHANGE**

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**Now we have:**


**Ontological Metamodel**

**Organization World Objects DB**

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**and....**

**The GOD Model !**

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**WARNING!!!**

**GOD .not equal to. Jan Dietz**

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**The GOD Model !**  
**is part of**  
**the Ontological Model**  
**that represents**  
**Generation,Operationalization and**  
**Discontinuation of Ontological**  
**Rules**

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**Now we have:**

**Architecture Model**  
**Architecturing Transactions**  
**Mission Rules**  
**Design Rules**

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**And...**

**New, objective, integrated**  
**insights on**

**Governance**

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**Now, I have solid scientific  
grounds onto which “my”  
decade-long utopias  
can be defined and built.**

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**The  
REAL TIME ENTREPRISE  
Utopia**

**Keeping track of what it is and  
what is becoming j.i.t., a.t.t!**

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**The  
OSA  
Utopia**

**Organizational Self Awareness**

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**OSA!**

**The mathematical transformation  
through which  
a collections of agents, acting,  
become ...**

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**A SEMANTIC WEB**


**OF**

**CARBON AND SILICON SERVERS**

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... that **ARE** the **SELF** of  
the organization

**O.S.A.**

**A FUNDAMENTALLY HUMAN  
ENGINEERING CONCEPT**

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**Dietz Ontology provides the  
foundational basis for the Dynamics,  
Learning and Intelligence of the  
Organizational “Whole”.**

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**Thank you, Jan!**