

## BANKING AND MANAGEMENT INFORMATION SYSTEM AUTOMATION

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**Abstract:** An Object Oriented Model for large scale projects is proposed, with a formal framework for inheritance, dynamic classification, object specification decomposition, composition of objects (aggregation) and object single and joint behaviour semantics. The model is based on a full concurrent community of objects. It is advocated that such a model enhances concurrency, improves abstraction, refinement and reusability, explains different forms of inheritance and gives a concise semantic for aggregation and exception handling.

**Keywords:** Concurrency, Events, Inheritance, Interaction, Invariants, Object, Synchronisation

### 1. INTRODUCTION

The critical aspects of today Banking Management Information Systems are, among others: time to market (dealing with components' development and re-use), evolution (volatility of business requirements), requirements' conformance (take decisions upon correct information), large-scale and complex systems, parallelism, maintenance, robustness and security. Product distribution, management information systems and decision support systems are typical banking applications facing this problems.

Another problem companies are facing today is that they must have a technology migration path planning from current traditional systems to future open systems. An encapsulation mechanism to hide "legacy systems" is essential to guaranty a smooth transition, coping with the business support extensibility.

This paper introduces a rigorous approach, derived from GNOME (Elrich *et al.*, 1993; Saake *et al.*, 1993), addressing, among other things, normative and non-

normative behaviour, inheritance and composition and decomposition.

Effort was made to introduce a well defined semantic, in order to fulfil the following desirable characteristics for object-oriented approaches: *method composition and extension, dynamic classification, direct object interaction and event broadcast, behaviour inheritance, compositionality and encapsulation*. Some properties relevant to wider software engineering were also included, namely: the ability to specify concurrent behaviour and properties; the ability to deal with non-normative behaviour (*exception handling*); allowing the systematic refinement of specifications to code, preferably in a compositional manner.

According to these principles, an **Information System** is treated as a *collection of interacting concurrent objects* where the object notion is the unification of the system constituents.

An **object** is an abstraction with a persistent *identity*, a *public interface* defined by the provided services and recognised events (only way to interact with the object, accessing its internal state) and an *internal body*, including

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