SEMESTRE B - Módulo Aplicaciones y Soporte

El módulo Aplicaciones y Soporte se completará con la impartición de seminarios por parte de profesores invitados, investigadores de gran prestigio internacional, que colaboran habitualmente con el máster.

⇒ Seminario MPN: Organizational Modeling with iStar: Coming of Age

• Profesor Invitado: Prof. Dr. Jaelson Castro  (Federal University of Pernambuco, Recife (Brasil))

• 6 horas

• Fechas: Lunes, 8 de abril de 2019 de 10:30 a 13:30 h.
  Martes, 9 de abril de 2019 2019 de 10:30 a 13:30 h.

• Lugar: Aula del máster, seminario 0501

Abstract: iStar (i*) is a goal-based requirements modelling language, being used in both industrial and academic projects of different domains. Over the past two decades, it has received much attention in Requirement Engineering research, but also in Software engineering, Information Systems, Conceptual Modeling and Enterprise Modeling. Goals have been used as a useful conceptualization to elicit, analyse requirements, capturing alternatives and conflicts.

Often the iStar language is extended to incorporate new constructs related to an application domain or to adjust it to practical situations during requirements modelling. Currently, the language is undergoing standardisation, and several studies have focused on the analysis of iStar variations to identify similarities and to define a core.

This mini-course introduces the iStar language and reviews the existing iStar extensions by presenting an analysis and the perspectives of iStar researchers. The analysis reveals what is the meaning of modelling language extension and points out differences about how extensions are proposed.

We then describe PRISE, a Process to Conduct iStar Extensions. It aims to systematically guide the proposals of iStar extensions to make them as complete, consistent and without conflicts as possible. This process can be used by novices and experts in iStar extensions and it can be customised by them.

We then use the PRISE process to define iStar4Safety, a modelling language with several specific constructors for modelling a SCS – Safety Critical Systems. SCS is known to be a system that, if it fails or does not perform as expected, can lead to damage or loss of life, property, missions, and / or environmental damage.

Short-Bio: Jaelson Castro is a Full Professor (Catedrático) at Universidade Federal de Pernambuco (UFPE), Brazil, where he leads the Requirements Engineering Laboratory (LER).
He earned his Ph.D. in 1991 from Imperial College London. His research interests include Requirements Engineering, Safety-Critical Systems, Model-Driven Development, Adaptive systems, and Robotics.

Prof. Castro serves on the editorial boards of the Requirements Engineering Journal (REJ) and Journal of Software Engineering and Research Development (JSERD).