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When

Wednesday 21 October 2020 from 11am-12pm EDT (3pm – 4pm UTC)

Topic

The INCOSE Guide for Writing Requirements: Raising the Ante

Speaker

René Oosthuizen, José Fuentes and Ilyes Yousfi



Abstract

Given the importance of starting out with high-quality project documentation (e.g. concepts, needs and requirements specifications) and the benefit of the INCOSE GfWR (Guide for Writing Requirements) asset, this webinar will address an approach to enhance the implementation of the INCOSE GfWR utilizing a tailoring process together with some automation of the assessment activities.

Even though the GfWR is a universally used and recognized reference for requirements engineers, its implementation poses various challenges. For example, requirements can be expressed at different levels of abstraction, a document might contain requirements of different types, the components addressed by those requirements may not be equally critical, ... Additionally, because the guide is thoroughly extensive, implementation of the rules in a single step turns out to be very complicated, especially considering the divergent skills of different team members, not to mention the tediousness of manual inspection based on such a large number of quality rules.

The enhancement is based on the gradual implementation of sets of incrementally more demanding quality rules, that could address different levels of abstraction and criticality, as well as cater for different skill sets of engineers. Besides, the approach aims not only at quality inspection but also at the authoring stage, thus reducing rework and enhancing reusability while boosting performance of the requirements engineering teams. Requirements patterns (or boilerplates) represent another key factor ensuring structural consistency among requirements, while enabling uniformity of structure and content (based on domain-specific dictionaries).

Such enhancements are not achievable without a tailored process and tool set, which will be discussed in the webinar.

Biography

René Oosthuizen holds an Electrical Engineering degree from the University of Stellenbosch, South Africa. He is the founder of Monzé Consultants, a systems engineering services company. He spent the initial 41 years of his career in the defence environment, followed by a 3-year stint as Lead Systems Engineer: Infrastructure South Africa on the Square Kilometre Array radio telescope program. An avid systems engineer with a passion for requirements engineering, he recently had the privilege of joining the The REUSE Company for Business Development support.

René has been actively involved in the International Council on Systems Engineering (INCOSE) since 2004. He served in several leadership positions, including INCOSE South Africa Treasurer (2007-2009) and President (2011, 2012, 2014 & 2015), Europe Middle East and Africa (EMEA) Assistant Sector Director (2014-2018) and INCOSE Treasurer (2018-2019). During his tenure as Treasurer he led the transitioning of INCOSE finances from a function/activity-based to a Value Stream-based model. He received an INCOSE Founders Award at IS2020.

José Fuentes obtained his degree in Information Science at the Carlos III University of Madrid (Spain). After getting his degree, he founded, together with other 5 colleagues, an SME with the vision of streamlining the software development processes. After some years as product manager of tools aimed at

software engineers, he and his company turned into the systems engineering discipline.

His professional experience is focused on the Management of software and systems related projects, as well as training and consultancy activities related to project management (PMP), CMMI, requirements management, logical modelling, and systems engineering.

For more than 10 years, he's been leading the team of developers in charge of creating the suite of tools Requirements Quality Suite in The REUSE Company. This includes from the research stage to the commercialization stage.

José is now COO at The REUSE Company, dealing with customers and partners in the fields of aerospace, defence, automotive and railway.

José is also actively collaborating with INCOSE. In addition to his CSEP Certification, his main activity within INCOSE includes:

- Member of the board of AEIS, the Spanish Chapter of INCOSE
- Responsible for the Requirements Management Working Group at AEIS
- Main contributor to the INCOSE Guide for Writing Requirements
- Member of the Requirements and Ontology Working Groups
- Graduated member of the 3rd Cohort of the Technical Leadership Institute

Ilyes Yousfi got his Master's degree in Energy Engineering from the University of Montreal, Canada and the IMT Atlantique School of Engineering in Nantes, France after achieving an international double degree.

He works in the Sales & Consulting Department of the REUSE Company as Key Account Manager.

Ilyes has 4 years of experience in sales, technical background in energy and mechanical engineering and was earlier involved in a research project around the environmental impacts of end-of-life management of aircrafts.

Ilyes is co-author of the book Real-time quality assessment of the INCOSE Guide for Writing Requirements Rules: A Tailoring Guide, by the REUSE Company.

Passionate about international projects and learning languages, Ilyes speaks 4 languages fluently: English, French, German and Spanish.

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Regards,

Andy Pickard
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