

The Seminars on “Information Technology Outlook” – PhD Programme in Computer Science and Mathematics



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FROM REQUIREMENTS TO FAIRNESS PERSPECTIVES, PRACTICES, AND INTEGRATION CHALLENGES

Abstract

Software requirements engineering has always been concerned with balancing multiple perspectives, including stakeholder needs, domain knowledge, technical constraints, and organizational goals. Today, the increasing adoption of AI systems has introduced additional challenges related to fairness, ethics, and social responsibility that are often difficult to operationalize within traditional requirements processes. This talk discusses current perspectives and practices surrounding fairness requirements in software systems, with particular attention to integration challenges, ambiguity in fairness interpretation, and tensions between fairness and other system objectives.

Short Bio

Ronnie de Souza Santos is a Tenure Track Assistant Professor of Software Engineering at the University of Calgary, Canada, and Director of the PLURISE Lab. His research investigates socio-technical dimensions of software engineering, with particular attention to fairness in AI systems, human aspects of software development, and equity, diversity, and inclusion in technology. His work appears in journals such as ACM Transactions on Software Engineering and Methodology, ACM Computing Surveys, and IEEE Software, as well as international conferences including ICSE, FSE, ASE, ICSME, ESEM, and CHASE. His contributions have been recognized with a Best Paper Award at CHASE, multiple Distinguished Reviewer Awards at ICSE, CHASE, EASE, and CSEE&T, and the SSE Excellence Award for fostering equity, diversity, inclusion, and accessibility in engineering at the University of Calgary.