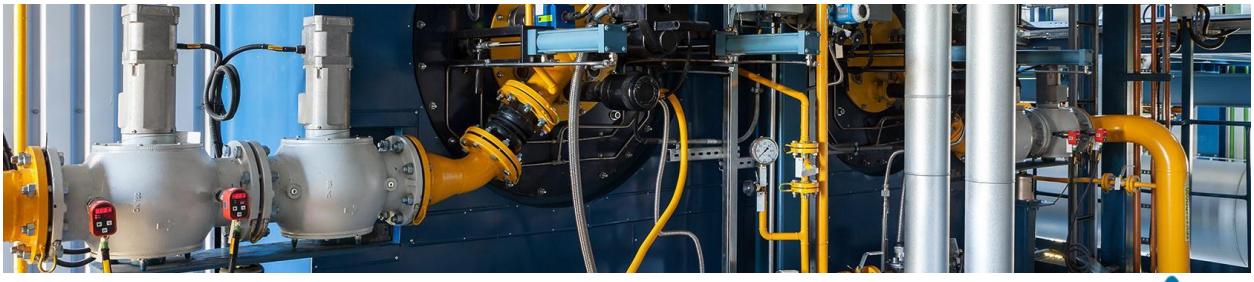
Next Event	Safety Instrumented Systems - Avoidance and Control of Systematic Failures
Organized By	IEEE Control Systems & Instrumentation
Date	Tuesday, February 5th, 2019
Speakers	**Amir Moutameni, P.Eng.**, Senior Automation Engineer at Honeywell
Location	110 – 12 Ave SW, Calgary, AB TransAlta Building, Auditorium
Fees	Member: $15, Non Member: $25, Full time Student, Fellow Members and Life Members: Free
Registration	Click here to register

Advance registration only. Registration at the door is NOT available. Participants must sign-in at the Security Desk in the T2 Building prior to the seminar, and must sign-out upon leaving.

Abstract

Safety Instrument Systems (SIS) intend to control risk of hazards to a tolerable boundary by reducing dangerous failures rate. There are two types of failures; *random* and *systematic*. Random failures occur at random times and result from one or more degradation mechanisms. Systematic failures, however, are related to a deterministic way to a certain cause, which can only be eliminated by a modification of the design or manufacturing process, operational procedures, documentation or other relevant factors. Both systematic safety integrity (to avoid systematic failures) and hardware safety Integrity (to avoid random failures) are needed to meet the required risk reduction target for a SIS. Thus, if systematic integrity is missed, much is neglected. Studies show that many catastrophic accidents occurring in process industries address multiple systematic failures. Unlike random failures, systematic failures cannot be analyzed straightforwardly. The author's experiences in automation field of process industries shows avoidance and control of systematic failures in SIS are not being highlighted as much as random hardware failures. This talk focuses on systematic failures and discusses procedures, techniques and measures to be used for avoidance and control of systematic failures.



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With more than 20 years of experience in the process industry, Amir provides engineering services and consulting for oil, gas and petrochemical segment - with special emphasize in the functional safety. Amir has a MS in Electrical Engineering, he is certified professional engineer in Alberta, certified functional safety engineer by TUV, Honeywell P&AS Safety Certified Engineer and certified Project Management Professional.

Program for Tuesday, February 5th, 2019:

» 5:30 Registration
» 6:00 Introduction
» 6:15 Presentation
» 7:00 Break & Light Dinner
» 7:30 Presentation Resumes
» 8:15 Q&A
» 8:30 Networking
» 9:00 Doors close

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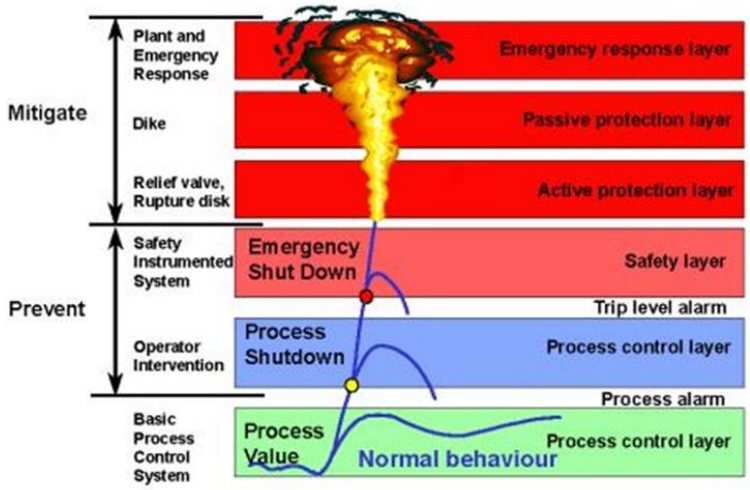

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