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Chair Dynamics and Control, U DuE
V0, October 14th, 2019

Course Functional Safety - Literature overview

Ref. as	Author, title, publisher, year	Where to get? Library (L) Internet (I)
D2	Smith, D.J.; Simpson, K.G.L.: Safety Critical Systems Handbook, Butterworth Heinemann, 2011	L,I
D4	Stapelberg, R.F.: Handbook of Reliability, Availability, Maintainability and Safety in Engineering Design, Springer, 2009	L
D5	Junglas, M.: Methodische Entwicklung hochintegrierter mechatronischer Systeme unter funktionalen, zuverlässigkeits- und sicherheitstechnischen Aspekten - Analyse und Quantizierung, Dissertation Duisburg-Essen, 2012	L
D6	Kazeminia, A.: Reliability optimization of hardware components and system's topology during early design phase, Dissertation Duisburg-Essen, 2013	L
D7	Misra, K.B.: The handbook of performability engineering, Springer, 2008	L
D8	Varde, P.V.; Pecht, M.G.: Risk-based Engineering, Springer, 2018	L
D9	Albers, P.: Motion Control in Offshore and Dredging, Springer, 2010	L
D10	Pham, H.: Safety and Risk Modeling and its Application, Springer, 2011	L
D11	Dhillon, B.S.: Mining Equipment Reliability, Maintainability, and Safety, Springer, 2008	L
D12	Skjerve, A. B.; Bye, A.: Simulator-based Human Factors Studies Across 25 Years, Springer, 2011	L
D13	Papanikolaou, A. (Ed.): Risk-Based Ship Design Methods, Tools and Applications, Springer, 2009	L
D14	Verma, A.K.; Ajit, S.; Karanki, D.R.: Reliability and Safety Engineering, Springer, 2010.	L
D15	Schagaev, I.; Kirk, B.K.: Active System Control Design of System Resilience, Springer, 2018	L
D16	Edler, F.; Soden, M.; Hankammer, R.: Fehlerbaumanalyse in Theorie und Praxis, Springer-Vieweg, 2015	L
D17	Werdich, M. (Ed.): FMEA – Einführung und Moderation, Springer-Vieweg, 2012	L
D18	Bertsche, B.; Göhner, P.; Jensen, U.; Schinköthe, W.; Wunderlich, H.J.: Zuverlässigkeit mechatronischer Systeme, Springer, 2009	L
D19	Schnieder, L.; Hosse, R.S.: Leitfaden Safety of the Intended Functionality, Springer-Vieweg, 2019	L
D20	Gilbert, C.; Journé, B.; Laroche, H.; Bieder, C. (Eds.):	L

	Safety Cultures, Safety Models - Taking Stock and Moving Forward, Springer, 2018	
D21	De Felice, F.; Petrillo, A. (Eds.): Human Factors and Reliability Engineering for Safety and Security in Critical Infrastructures - Decision Making, Theory, and Practice, Springer, 2018	L
D22	Keller, H. B.; Pilz, W.-D.; Schulz-Forberg, B.; Langenbach, C.: Technical Safety – An Attribute of Quality An Interdisciplinary Approach and Guideline, Springer, 2018	L
D23	Hauptmanns, U.: Prozess- und Anlagensicherheit, Springer-Vieweg, 2013	L
D24	Hrycej, T.: Robuste Regelung - Ein Leitfaden für sicherheitskritische Anwendungen, Springer-Vieweg, 2018	L
D25	Fendrich, L.; Fengler, W. (Eds.): Handbuch Eisenbahninfrastruktur, Springer, 2019	L
V1	Hohlfeld, B.: Automotive Software Engineering Teil 7 Normen und Standards (3-0) Funktionale Sicherheit – Einleitung, Vorlesung Sose 2015, TU Dresden	I
V2	EATON: An introduction to Functional Safety and IEC 61508, Application note Functional safety, AN9025 Rev 4, Oct. 2016	I
V3	Siegwart, C.: Grundlagen der Automatisierungstechnik – Functional Safety, Vorlesung-Übung, Universität des Saarlandes, WiSe 18/19	I
V4	SIEMENS: Safety Integrated Introduction and Terminology for Functional Safety of Machines and Systems Reference Manual, 03/2018 E86060-T1813-A101-A5-7600, 2018	I
V5	Schlummer, M.: Herausforderungen der funktionalen Sicherheit im Automobilbereich. 104. Sicherheitswissenschaftliches Kolloquium, Wuppertal, 2014	I
V6	Levison, N. G.; Turner, C.S.: The investigation of the Therac-25 accidents, IEEE, Computer, pp 18-41, 1993.	L
V6b	Tuckle, ?.: Seminar Softwarefehler, Vorlesung, TU München https://www5.in.tum.de/lehre/seminare/semsoft/unterlagen_02/therac/website/index.html , accessed October 8th, 2019.	I
V7	National Transportation Safety Board: Accident Report NTSB/HAR-17/02 PB2017-102600, 2017.	I
V8	International Electrical Commission: Functional safety, https://www.iec.ch/functionalsafety/explained/ accessed October 8th, 2019.	I