

Web Pages for System Safety Engineering

Academic Institutions

- Dependability Research Group, University of Maryland - dependability.cs.virginia.edu/info/Welcome
- Department of Computer Science, University of York, U.K. - www.cs.york.ac.uk/postgraduate/taught_courses.htm

Accidents

- Air Accident Investigation Branch (AAIB) - www.aaib.dft.gov.uk/home/index.cfm
- Air crashes - www.1001crash.com/index-page-crash_year-lg-2-numpage-2008.html#accidents
- Australian Transport Safety Board (ATSB) - www.atsb.gov.au/
- Buncefield Final Report - www.hse.gov.uk/comah/buncefield/final.htm
- Marine Accident Investigation Branch (UK) - www.maib.gov.uk/home/index.cfm
- National Transport Safety Board for US (NTSB) - www.nts.gov/
- Rail Accident Investigation Branch (UK) - www.raib.gov.uk/home/index.cfm
- Slabodkin G “Software Glitches leave Navy Smart Ship dead in the water” - www.gcn.com/print/17_17/33727-1.html
- US National Transport Safety Board (NTSB) - www.nts.gov/

Chemicals

- REACH directive - ec.europa.eu/environment/chemicals/reach/reach_intro.htm

Civil Aerospace

- SKYbrary is an initiative of EUROCONTROL and ICAO with the purpose of safety knowledge exchange - www.skybrary.aero/landingpage/

Common Cause

- National Lightning Safety Institute (US) (NLSI) - <http://www.lightningsafety.com/>

Components

- Components Obsolescence Group (COG) - www.cog.org.uk
- DMEA Obsolescence pages - www.dmea.osd.mil
- Independent Distributors of Electronics Association (IDEA) – www.idofea.org
- Marine Suppliers & Products Directory - www.imionline.no/default.aspx
- National Obsolescence Centre - www.nocweb.org
- Semiconductor safety association - www.semiconductorsafety.org/

Competency

- Board of Certified Safety Professionals - www.bcsp.org/bcsp/index.php
- Managing Competence for Safety-related Systems (HSE) - www.hse.gov.uk/humanfactors/comah/competenceinfo.htm
- Skills XP training database from M&O global - www.mando.com.au

Consultancies

- BowTieXP - www.bowtiexp.com/
- Design Safety Engineering - www.designsafe.com/index.php
- ERA technology - www.era.co.uk/Services/safetyengineering.asp
- Esterel - www.esterel-technologies.com/index.html
- Lloyds-register - www.lr.org/
- NLR air transport safety institute - www.nlr-atsi.nl/
- Origin Consulting - www.origin-consulting.com/

- QinetiQ - www.qinetiq.com/
- Safety Metrics - safetymetrics.com/main.htm
- Safety & Reliability Centre - src.alionscience.com/

Journals

- Aero safety world - www.flightsafety.org/pubs/asw_2008.html
- Aviation Today: Air Safety Week - www.aviationtoday.com/asw/
- Flight Safety Australia - www.casa.gov.au/fsa/
- Flight International - www.flightglobal.com/sectionhome/sectiondefault.aspx?NavigationID=195&CategoryID=10253&SlotID=6
- Quality and Safety in Health Care - qshc.bmj.com/
- RELIABILITY ENGINEERING & SYSTEM SAFETY - www.elsevier.com/wps/find/journaldescription.cws_home/405908/description?navopenmenu=1
- Riskworld - www.riskworld.com/
- UK DASC Journal - www.mod.uk/DefenceInternet/AboutDefence/CorporatePublications/AirSafetyandAviationPublications/DASCJournal/

Helicopters

- Helicopter Safety Organisation - www.helicoptersafety.org/
- Flight Safety Foundation - www.flightsafety.org/hs_home.html
- International Helicopter Safety Team - www.ihst.org

Human Factors

- Human Factors Bibliography - www.hcibib.org

Law

- MoD directorate of safety & claims - www.mod.uk/
- Corporate Manslaughter Act 2008 - www.corporatemanslaughter.net/article.php

Logistics

- AT&L integrated logistics framework - acc.dau.mil/IFC/index.htm
- Integrated Vehicle Health Monitoring (impact technologies) - www.impact-tek.com/Engineering/Category.aspx?cat=63
- Logistics Coherence Information Architecture (LCIA 3.5) - www.modinfomodel.co.uk/
- Maintenance world - www.maintenanceworld.com/index.htm

Materials

- FACTS: hazardous materials accidents knowledge base - www.factsonline.nl/

Medical

- National Patient Safety Forum - www.dh.gov.uk/en/PublicHealth/Patientsafety/DH_073927

Military

- UK MoD Acquisition Operating Framework - www.aof.mod.uk/index.htm
- UK MoD management of process risk guidelines - www.aof.mod.uk/aofcontent/tactical/risk/downloads/RiskBrochure.pdf
- US navy safety center - safetycenter.navy.mil/acquisition/systemsafety/default.htm

Nuclear

- IAEA - www.iaea.org/OurWork/SS/index.html
- U.S. Nuclear regulatory commission - www.nrc.gov/

Occupational Health & Safety

- British safety council - www.britishsafetycouncil.co.uk/
- Hazard Magazine - www.hazards.org/index.htm
- Health and Safety - www.healthandsafety.co.uk/
- Journal of Safety Research - www.elsevier.com/wps/find/journaldescription.cws_home/679/description?navopenmenu=-2

Regulators

- Civil Aviation Safety Authority UK - www.caa.co.uk/default.aspx?catid=3
- Civil Aviation Safety Authority Australia - www.casa.gov.au
- Eurocontrol - www.eurocontrol.int/index2.html
- European Aviation Safety Agency (EASA) - www.easa.europa.eu
- European Rail Agency - www.era.europa.eu/public/Pages/default.aspx
- European Space Agency (ESA) - www.esa.int/esaCP/index.html
- Federal Aviation Administration (FAA) - www.faa.gov/
- Health & Safety Executive - www.hse.gov.uk
- International Civil Aerospace Organisation (ICAO) - www.icao.int/
- International Helicopter Safety Team (IHST) - www.ihst.org/
- Transport Canada - www.tc.gc.ca/en/menu.htm

Reliability

- Reliability Analysis Information Centre - <http://www.theriac.org/>

Reporting Schemes

- CHIRP - www.chirp.co.uk/index.asp
- UK NHS National Reporting and Learning System - www.npsa.nhs.uk/patientsafety/reporting/general-overview-of-the-nrls/general-overview-of-the-nrls/

Risk

- Institute of Risk Management - www.theirm.org/index.html
- Institute of Risk and Safety Management - www.iirsm.org/

Safety Cases

- Assessment Principles for Offshore Safety Cases - www.hse.gov.uk/offshore/aposc190306.pdf
- Goal Structuring Notation (GSN) club - www.origin-consulting.com/gsnclub/index.php

Safety & Systems Management

- Aviation Safety Management resources on the web - www.casa.gov.au/sms/resources.htm
- Beyond SMS article 2008 - www.flightglobal.com/airspace/forums/beyond-sms-airlines-have-a-lot-to-learn-from-9705.aspx#12421
- Capability Maturity Models (CMMi) - www.sei.cmu.edu/cmmi/models/
- Emergency planning college for U.K. - www.epcollege.gov.uk/
- Quality Function Deployment (QFD) Institute - www.qfdi.org/
- People and Organisations - www.finntrack.com/management_centre/people_org.htm
- Resilience Management - www.resilience-engineering.org/intro.htm

- ECAST Safety Management Systems (SMS) and Safety Culture Working Group guidance - easa.europa.eu/essi/ECAST_SMS.htm

Safety Statistics

- Aviation Safety Reporting Centre - asrs.arc.nasa.gov
- Deaths in the UK Regular Armed Forces - www.dasa.mod.uk/
- ECCAIRS (European Co-ordination centre for Accident and Incident Reporting Systems) - eccairs-www.jrc.it/Start.asp
- European Road Safety Observatory - www.erso.eu/index.html
- EUROSTAT - epp.eurostat.ec.europa.eu/portal/page?_pageid=1090,30070682,1090_33076576&_dad=portal&_schema=PORTAL

Societies

- Australian Safety Critical Systems Club - www.safety-club.org.au/
- British aerospace companies (SBAC) - <http://www.sbac.co.uk/>
- European System Safety Society - www.esss.org/index.cgi
- IEC 61508 association - www.61508.org/
- Institute of Risk Management – www.theirm.org
- Maintenance and Ramp Safety Society - www.marss.org/service.htm
- Royal Aeronautical Society - www.aerosociety.com/
- Safety Critical Systems Club U.K. - www.safety-club.org.uk/tools.html
- Safety and Reliability Society - www.sars.org.uk/
- Safety Users group - www.safetyusersgroup.com
- System Safety Society - www.system-safety.org/

Software

- Change Impact Analysis (FAA) - klabs.org/richcontent/conferences/faa_nasa_2005/presentations/scia-ocker.pps
- Data Analysis Centre for Software - www.thedacs.com/index.php
- Software Programme Managers Network - www.spmn.com/index.html
- Software Reliability (Softrel) - <http://www.softrel.com/>
- Windriver RTOS - www.windriver.com

Space

- NASA office of Safety & Mission Assurance - www.hq.nasa.gov/office/codeq/

Standards

- IEC 61508 Association - www.61508.org/index.htm
- ISO - www.iso.org
- JSP886 – U.K. MoD Defence Logistics Support Chain Manual - www.mod.uk/DefenceInternet/MicroSite/DES/OurPublications/Jsp886TheDefenceLogisticsSupportChainManual.htm
- RTCA - www.rtca.org/Default.asp
- SAE - www.sae.org/servlets/index
- UK Defence Standards - www.dstan.mod.uk/

Surveys

- Decadel Survey of Civil Aeronautics 2006 - books.google.co.uk/books?id=X7c-FT715J4C&printsec=frontcover&source=gbs_summary_r&cad=0

Systems Engineering

- AP233 is a STEP-based data exchange standard - www.ap233.org/

- International council on systems engineering (INCOSE) - www.incose.org/
- Matrix management - www.aja4hr.co.uk/services/management/matrixmanagement.asp
- Systems Modelling Language (SyS-ML) – www.omgsysml.org/
- Technology Readiness Levels (TRLs) - www.aof.mod.uk/aofcontent/tactical/techman/content/trl_whatarethey.htm
- Telelogic - www.telelogic.com/index.cfm

Techniques

- Fault Tree Central - www.fault-tree.net/
- FMEA info centre - www.fmeainfocentre.com/index.htm

Tools and Tool Qualification

- Adelard safety case tool (ASCE) – www.adelard.com/web/hnav/ASCE/index.html
- CASSANDRA hazard log tool - www.risktools.co.uk/
- Isograph - www.isograph-software.com/index.htm
- Mitigation of Obsolescence Cost Analysis (MOCA) Software - www.calce.umd.edu/contracts/MOCA/MOCA_Page.htm
- Matlab / Simulink - www.mathworks.com/
- Prognostics & Health Management (PHM) System Design Tools - www.impact-tek.com/Engineering/Category.aspx?cat=11
- Relex – www.relex.com/
- Safety-Critical Systems Club Tools Directory - www.safety-club.org.uk/tools.html
- SCADE toolset - www.esterel-technologies.com/products/scade-suite/
- TApRoot root cause analysis - www.taproot.com/index.php
- Why-Because Analysis - www.rvs.uni-bielefeld.de/research/WBA

Unmanned Vehicles

- European unmanned systems centre - www.eurousc.com/flightops/