1. Record Nr. UNINA9910811628403321

Titolo	Integrated vehicle health management-systems of systems integration / / edited by Timothy Wilmering
Pubbl/distr/stampa	Warrendale, Pa. (400 Commonwealth Dr., Warrendale PA USA) : , : Society of Automotive Engineers, , 2017
ISBN	1-5231-2405-9 0-7680-8429-6 0-7680-8731-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1 PDF (xiv, 104 pages)) : illustrations
Collana	Society of Automotive Engineers. Electronic publications
Disciplina	629
Soggetti	Integrated vehicle health management - Evaluation Motor vehicles - Electronic equipment Motor vehicles - Testing - Equipment and supplies Automotive sensors TECHNOLOGY & ENGINEERING / Automotive TRANSPORTATION / Automotive / Repair & Maintenance TECHNOLOGY & ENGINEERING / Sensors Automotive technology and trades Vehicle maintenance and manuals Automotive (motor mechanic) skills Sensors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Design features of the 747-400 electric power system (892227) -- Diagnosis concept for future vehicle electronic systems (2004-21-0010) -- Hierarchical component-based fault diagnostics for by-wire systems (2004-01-0285) -- Vehicle level approach for optimization of on-board diagnostic strategies for fault management (2013-01-0957) -- A hierarchical reasoning structure to support aerospace IVHM (2011-01-2665) -- Solid state power control as a network backbone for aircraft system health management (2012-01-2233) -- Integration issues for vehicle level distributed diagnostic

	reasoners (2013-01-2294) -- Design and evaluation of plug-and-play enabled IVHM architecture (2015-01-9001) -- Health ready components-unlocking the potential of IVHM (2016-01-0075) -- IVHM development and the big data paradigm (2013-01-2332)
Sommario/riassunto	Integrated vehicle health management (IVHM) is the unified capability of a system of systems (SoS) to assess the current or future state of the member system health, and integrate it within a framework of available resources and operational demand. As systems complexities have increased, so have system support costs, driven by more frequent and often enigmatic subsystem failures. IVHM strategies can be used to mitigate these issues by taking a Systems of Systems view.