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# Autonomous Decentralized Systems and their Applications in Transport and Infrastructure (Transportation)

In a big and complex system, such as a railway program, it is not an option to stop operation anytime. Hence they are known as Autonomous Decentralized Systems (ADS). This leads to numerous requirements for on-line expansion, on-line maintenance, and fault-tolerance. Advertisements is explained 1st using the exemplory case of japan railway transport program; Such systems are anticipated to have the characteristics of living systems composed of generally autonomous and decentralized elements. Even if a part of the program fails, has been repaired or modified, the system has to keep functioning. This function describes the idea, architecture and technologies of ADS and their applications in the intelligent control, information and assistance systems. Dynamic changes demand next-generation control, info and service systems to be based on adaptive, reliable and reusable technology and applications. The goal is to describe the ADS concept and the technology, applications and businesses on the basis of a consistent concept for achieving intelligent systems such as for manufacturing, transportation support, air traffic, robotic and distributed solutions are also covered. applications in other fields and countries follow. The work is an important read for college students, researchers, engineers, planners and managers in IT, business and services.