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Nota di contenuto	Performance Impact of New Interface for Non-Volatile Memory Storage -- Optimized Test Case Generation Based on Operational Profiles with Fault-Proneness Information -- Design Pattern for Self-adaptive RTE Systems monitoring -- Changing the Software Engineering Education: A Report from Current Situation in Mexico -- Analysis of Mouth Shape Deformation Rate for Generation of Japanese Utterance Images Automatically -- Predicting Fault-prone Modules by Word Occurrence in Identifiers -- The Influence of Alias and References Escape on Java Program Analysis -- Preliminary Evaluation of a Software Security Learning Environment -- Expression Strength for the Emotional Scene Detection from Lifelog Videos -- A Procedure for the Development of Mobile Applications Software -- The Relationships between Conversation Skill and Feeling of Load on Youth in Communicate with Elderly Persons using Video Image and Photographs -- Automatic Matching on Fracture Surface of Quarried Stone Using the Features of Plug-and-Feather Holes -- A Route Recommender System based on the User's Visit Duration at Sightseeing Locations -- Predicting Access to Healthcare Using Data Mining Techniques -- Object Tracking Method Using PTAMM and Estimated Foreground Regions -- Application of Detecting Blinks for Communication Support Tool.

This edited book presents scientific results of the 12th International Conference on Software Engineering, Artificial Intelligence Research, Management and Applications (SERA 2014) held on August 31 – September 4, 2014 in Kitakyushu, Japan. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. Research results about all aspects (theory, applications and tools) of computer and information science, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them. This publication captures 17 of the conference's most promising papers.

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