1.

Record Nr.	UNISALENTO991000134819707536
Titolo	Ermeneutica tra Europa e America Latina / a cura di Giuseppe Cacciatore, Pio Colonnello, Stefano Santasilia
Pubbl/distr/stampa	Roma : Armando, 2008
ISBN	9788860813312
Descrizione fisica	302 p. ; 24 cm
Collana	Voci dall'America
Altri autori (Persone)	Cacciatore, Giuseppe Colonnello, Pio Santasilia, Stefano
Disciplina	120
Soggetti	Ermeneutica
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910865276903321

Autore	Monteiro Thiago Gabriel
Titolo	Mental Fatigue Assessment in Demanding Marine Operations / / by Thiago Gabriel Monteiro, Houxiang Zhang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9730-72-4
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (126 pages)
Disciplina	612.744
Soggetti	Image processing - Digital techniques Computer vision Social sciences - Data processing Artificial intelligence Computer Imaging, Vision, Pattern Recognition and Graphics Computer Application in Social and Behavioral Sciences Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Introduction -- Handling Fatigue -- Mental Fatigue Assessment Sensor Framework -- Mental Fatigue Assessment Using Artificial Intelligence -- Model-based Assessment for Multi-subject and Multi-task Scenarios -- Mental Fatigue Prediction -- Research Challenges.
Sommario/riassunto	The maritime domain is characterized by demanding operations. These operations can be especially complex and dangerous when they require coordination between different maritime vessels and several maritime operators. This book investigates how human mental fatigue (MF) can be objectively measured during demanding maritime operations. The best approach to quantify MF is through the use of physiological sensors including electroencephalogram (EEG), electrocardiogram, electromyogram, temperature sensor, and eye tracker can be applied, individually or in conjunction, in order to collect relevant data that can be mapped to an MF scale. More than simpler sensor fusion, this book will bridge the gap between relevant sensor data and a quantifiable MF level using both data-driven and model-based approaches. Data-

driven part investigates the use of different NNs combined for the MF assessment (MFA) task. Among the different architectures tested, Convolutional Neural Networks (CNN) showed the best performance when dealing with multiple physiological data channels. Optimization was used to improve the performance of CNN in the cross-subject MFA task. Testing different combinations of physiological sensors indicated a setup consisting of EEG sensor only was the best option, due to the trade-off between assessment precision and sensor framework complexity. These two factors are of great importance when considering an MFA system that could be implemented in real-life scenarios. The model-based discussion applies the current knowledge about the use of EEG data to characterize MF to develop an MF approach to quantify the progression of MF in maritime operators. More importantly, all research results presented in this book, realistic vessel simulators were used as a platform for experimenting with different operational scenarios and sensor setups.