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Research interests

Main research interests include: Ergonomics; Usability; Occupational Safety; Fuzzy Logic; Intelligent Decision Support Systems.

Employment

Associate Professor (with Habilitation)

DEMI - Departamento de Engenharia Mecânica e Industrial
Universidade NOVA de Lisboa
Portugal
1 Oct 1991 → present

Researcher

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Universidade NOVA de Lisboa
1 Jan 2013 → present

Research outputs

Research › Article

Zarte, Maximilian ; Pechmann, Agnes ; Nunes, Isabel L. / **Indicator framework for sustainable production planning and controlling**. In: International Journal of Sustainable Engineering. 2019 ; Vol. 12, No. 3. pp. 149-158.

Pilco, Henry ; Sanchez-Gordon, Sandra ; Calle-Jimenez, Tania ; Pérez-Medina, Jorge Luis ; Rybarczyk, Yves ; Jadán-Guerrero, Janio ; Maldonado, César Guevara ; Nunes, Isabel L. / **An agile approach to improve the usability of a physical telerehabilitation platform**. In: Applied Sciences (Switzerland). 2019 ; Vol. 9, No. 3.

Nunes, Isabel L. / **Integration of Ergonomics and Lean Six Sigma. A Model Proposal**. In: Procedia Manufacturing. 2015 ; Vol. 3. pp. 890-897.

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Nunes, Isabel L. ; Machado, Virgílio António Cruz. / **A supply chain disturbance management fuzzy decision support system**. In: International Journal Of Industrial And Systems Engineering. 2014 ; Vol. 18, No. 3. pp. 306-334.

Nunes, Isabel L. ; Ribeiro, Maria Rita Sarmiento de Almeida. / **Ensuring the Quality of Occupational Safety Risk Assessment**. In: Risk analysis : an official publication of the Society for Risk Analysis. 2013 ; Vol. 33, No. 3. pp. 409-419.

Pinto, Abel R. ; Nunes, Isabel L. ; Ribeiro, Maria Rita Sarmiento de Almeida ; Paschoarelli, Luís Carlos. / **Aplicação preliminar do método QRAM para avaliação de riscos para segurança ocupacional na construção civil**. In: Producao. 2013 ; Vol. 23, No. 2. pp. 375-386.

Nunes, Isabel L. / **Analysis and risk assessment of work-related musculoskeletal disorders in a physical rehabilitation unit.** In: International Journal of Human Factors and Ergonomics. 2012 ; Vol. 1, No. 4. pp. 318-332.

Nunes, Isabel L. / **Fuzzy systems to support Industrial Engineering Management.** In: Journal of Applied Engineering Science. 2012 ; Vol. 10, No. 3. pp. 143 - 146.

Nunes, Isabel L. / **The nexus between OSH and subcontracting.** In: Work-A Journal Of Prevention Assessment & Rehabilitation. 2012 ; Vol. 41, No. NA. pp. 3062-3068.

Machado, Virgílio António Cruz ; Nunes, Isabel L. / **Integration of human factors principles in LARG organizations - a conceptual model.** In: Work-A Journal Of Prevention Assessment & Rehabilitation. 2012 ; Vol. 41, No. NA. pp. 1712-1719.

Nunes, Isabel L. ; Ribeiro, Maria Rita Sarmiento de Almeida. / **Fuzzy approach for reducing subjectivity in estimating occupational accident severity.** In: Accident; analysis and prevention. 2012 ; Vol. 45, No. 2. pp. 281-290.

Machado, Virgílio António Cruz ; Nunes, Isabel L. / **A Fuzzy Expert System Model to Deal with Supply Chain Disturbances** . In: International Journal of Decision Sciences, Risk and Management. 2012 ; Vol. 4, No. NA. pp. 127-151.

Pinto, A ; Nunes, Isabel L. ; Ribeiro, Rita A. / **Método de Avaliação de Riscos para a Segurança Ocupacional na Indústria da Construção.** In: Territorium. 2011 ; Vol. 18, No. NA. pp. 55-72.

Puga-leal, Rogério Salema Araújo ; Nunes, Isabel L. / **An exploratory study of the Work Ability Index (WAI) and its components in a group of computer workers.** In: Work-A Journal Of Prevention Assessment & Rehabilitation. 2011 ; Vol. 39, No. 4. pp. 357-367.

Jacinto, Celeste ; Nunes, Isabel L. / **Gestão Integrada: uma boa estratégia para todos?.** In: Organizações e Trabalho. 2011 ; Vol. 33-34, No. NA. pp. 51-58.

Pinto, Abel R. ; Nunes, Isabel L. ; Ribeiro, Maria Rita Sarmiento de Almeida. / **Occupational risk assessment in construction industry - Overview and reflection.** In: Safety Science. 2011 ; Vol. 49, No. 5. pp. 616-624.

Nunes, Isabel L. / **Handling Human-Centered Systems Uncertainty Using Fuzzy Logics – A Review.** In: The Ergonomics Open Journal. 2010 ; Vol. 3, No. NA. pp. 38-48.

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Nunes, Isabel L. / **Ergonomics & Usability - key factors in knowledge society.** In: Enterprise and Work innovation Studies. 2006 ; Vol. 2, No. NA. pp. 87-94.

Cabeças, José Martin Miquel ; Nunes, Isabel L. / **Fisheries Safety Management.** In: Enterprise and Work innovation Studies. 2005 ; Vol. 1, No. NA. pp. 19-26.

Research › Chapter

Rosado, Bruna ; Colim, Ana ; Nunes, Isabel L. / **Manual materials handling: Case study at a portuguese handling company** . Studies in Systems, Decision and Control. editor / Pedro M. Arezes ; João S. Baptista ; Mónica P. Barroso ; Paula Carneiro ; Patrício Cordeiro ; Néelson Costa ; Rui B. Melo ; A. Sérgio Miguel ; Gonçalo Perestrelo. Cham : Springer, 2019. pp. 493-501 (Studies in Systems, Decision and Control).

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Coelho, Denis A. ; Nunes, Isabel L. / **Ergonomic design and evaluation of surveillance systems**. Effective Surveillance for Homeland Security: Balancing Technology and Social Issues. Florida : CRC Press, 2013. pp. 257-277 (Multimedia Computing, Communication and Intelligence).

Nunes, Isabel L. / **Applications of Fuzzy Logic in Risk Assessment. The RA_X case**. Fuzzy Inference System – Theory and Applications. editor / Mohammad Fazle Azeem. Janeza Trdine 9, 51000 Rijeka, Croatia : InTech, 2012. pp. 22-40

Nunes, Isabel L. / **Usability of Interfaces**. Ergonomics - A Systems Approach. editor / Isabel L. Nunes. Janeza Trdine 9, 51000 Rijeka, Croatia : InTech, 2012. pp. 155-170

Nunes, Isabel L. / **Work-related musculoskeletal disorders assessment and prevention**. Ergonomics - A Systems Approach. editor / Isabel L. Nunes. Janeza Trdine 9, 51000 Rijeka, Croatia : InTech, 2012. pp. 1-30

Nunes, Isabel L. ; Ribeiro, Maria Rita Sarmiento de Almeida. / **Interfaces Usability for Monitoring Systems**. Encyclopedia of Decision Making and Decision Support Technologies. editor / Frederic Adam ; Patrick Humphreys. Idea Group, 2008. pp. 528-538

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Simões-Marques, Mário ; Teodoro, M. Filomena ; Calhamonas, Gabriel ; Nunes, Isabel L. / **Applying a variation of delphi method for knowledge elicitation in the context of an intelligent system design**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2019 International Conference on Human Factors and Systems Interaction. editor / Isabel L. Nunes. Springer Verlag, 2020. pp. 386-398 (Advances in Intelligent Systems and Computing).

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Acosta-Vargas, Patricia ; Salvador-Ullauri, Luis ; Jadán-Guerrero, Janio ; Guevara, César ; Sanchez-Gordon, Sandra ; Calle-Jimenez, Tania ; Lara-Alvarez, Patricio ; Medina, Ana ; Nunes, Isabel L. / **Accessibility assessment in mobile applications for android**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2019 International Conference on Human Factors and Systems Interaction. editor / Isabel L. Nunes. Cham : Springer Verlag, 2020. pp. 279-288 (Advances in Intelligent Systems and Computing).

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Marques, Mário ; Elvas, Filipe ; Nunes, Isabel L. ; Lobo, Víctor ; Correia, Anacleto. / **Augmented Reality in the Context of Naval Operations**. Human Systems Engineering and Design - Proceedings of the 1st International Conference on Human Systems Engineering and Design IHSED2018: Future Trends and Applications. editor / T. Ahram ; R. Tair ; W. Karwowski . Cham : Springer Verlag, 2019. pp. 307-313 (Advances in Intelligent Systems and Computing).

Zarte, Maximilian ; Pechmann, Agnes ; Nunes, Isabel L. / **Indicators and goals for sustainable production planning and controlling from an ergonomic perspective**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2018 International Conference on Human Factors and Systems Interaction, 2018. editor / Isabel L. Nunes. Vol. 781 Springer Verlag, 2019. pp. 363-373 (Advances in Intelligent Systems and Computing).

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Calle-Jimenez, Tania ; Sanchez-Gordon, Sandra ; Rybarczyk, Yves ; Jadán, Janio ; Villarreal, Santiago ; Esparza, Wilmer ; Acosta-Vargas, Patricia ; Guevara, César ; Nunes, Isabel L. / **Analysis and improvement of the web accessibility of a tele-rehabilitation platform for hip arthroplasty patients**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2018 International Conference on Human Factors and Systems Interaction, 2018. editor / Isabel L. Nunes. Springer Verlag, 2019. pp. 233-245 (Advances in Intelligent Systems and Computing).

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Acosta-Vargas, Patricia ; Esparza, Wilmer ; Rybarczyk, Yves ; González, Mario ; Villarreal, Santiago ; Jadán, Janio ; Guevara, César ; Sanchez-Gordon, Sandra ; Calle-Jimenez, Tania ; Baldeon, Jonathan ; Nunes, Isabel L. / **Educational resources accessible on the tele-rehabilitation platform**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2018 International Conference on Human Factors and Systems Interaction, 2018. editor / Isabel L. Nunes. Vol. 781 Springer Verlag, 2019. pp. 210-220 (Advances in Intelligent Systems and Computing).

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Rybarczyk, Yves ; Villarreal, Santiago ; González, Mario ; Acosta-Vargas, Patricia ; Esparza, Danilo ; Sanchez-Gordon, Sandra ; Calle-Jimenez, Tania ; Jadán, Janio ; Nunes, Isabel L. / **Interaction with a tele-rehabilitation platform through a natural user interface : A case study of hip arthroplasty patients**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2018 International Conference on Human Factors and Systems Interaction, 2018. editor / Isabel L. Nunes. Springer Verlag, 2019. pp. 246-256 (Advances in Intelligent Systems and Computing).

Nunes, Isabel L. ; Lucas, Raquel ; Simões-Marques, Mário ; Correia, Nuno. / **Augmented Reality in Support of Disaster Response**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2017 International Conference on Human Factors and Systems Interaction, 2017. editor / I. L. Nunes. Cham : Springer Verlag, 2018. pp. 155-167 (Advances in Intelligent Systems and Computing).

Lemos, Bruno ; Nunes, Isabel L. / **A Fuzzy Usability Assessment Methodology**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2017 International Conference on Human Factors and Systems Interaction, 2017. Vol. 592 Springer Verlag, 2018. pp. 409-418 (Advances in Intelligent Systems and Computing).

Coelho, Denis A. ; Lourenço, Miguel L. ; Nunes, Isabel L. / **Psychometric Analysis of Scales for Usability Evaluation of Pointing Devices**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2017 International Conference on Human Factors and Systems Interaction, 2017. editor / I. L. Nunes. Springer Verlag, 2018. pp. 419-426 (Advances in Intelligent Systems and Computing).

Correia, Anacleto ; Severino, Inês ; Nunes, Isabel L. ; Simões-Marques, Mário. / **Knowledge Management in the Development of an Intelligent System to Support Emergency Response**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2017 International Conference on Human Factors and Systems Interaction, 2017. Vol. 592 Springer Verlag, 2018. pp. 109-120 (Advances in Intelligent Systems and Computing).

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Rybarczyk, Yves ; Deters, Jan Kleine ; Gonzalo, Arián Aladro ; Esparza, Danilo ; Gonzalez, Mario ; Villarreal, Santiago ; Nunes, Isabel L. / **Recognition of Physiotherapeutic Exercises Through DTW and Low-Cost Vision-Based Motion Capture**. Advances in Human Factors and Systems Interaction - Proceedings of the AHFE 2017 International Conference on Human Factors and Systems Interaction, 2017. editor / I. Nunes. Cham : Springer, 2018. pp. 348-360 (Advances in Intelligent Systems and Computing).

Zarte, Maximilian ; Pechmann, Agnes ; Nunes, Isabel L. / **Influencing factors in sustainable production planning and controlling from an ergonomic perspective**. Occupational Safety and Hygiene VI - Selected contributions from the International Symposium Occupational Safety and Hygiene, SHO 2018. editor / Rui B. Melo ; João Santos Baptista ; Pedro M. Arezes ; A.S. Miguel ; Gonçalo Perestrelo ; Mónica P. Barroso ; Paula Carneiro ; Patrício Cordeiro ; Nélson Costa. CRC Press/Balkema, 2018. pp. 489-493

Nunes, Isabel L. / **Teaching usability to industrial engineering students**. Advances in Human Factors and System Interactions - Proceedings of the AHFE International Conference on Human Factors and System Interactions, 2016. Vol. 497 Springer-Verlag, 2017. pp. 155-162 (Advances in Intelligent Systems and Computing).

Valério, M. F. ; Nunes, I. L. / **Total productive maintenance implementation. A way to improve working conditions**. Occupational Safety and Hygiene V - Proceedings of the International Symposium on Occupational Safety and Hygiene, SHO 2017. CRC Press/Balkema, 2017. pp. 375-380

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Torres, Patricia ; dos Marques, Paulo Henrique ; de Jesus, Vasco ; Nunes, Isabel L. / **Preliminary results of a study about musculoskeletal disorders in physiotherapists**. SHO2015: INTERNATIONAL SYMPOSIUM ON OCCUPATIONAL SAFETY AND HYGIENE. editor / P Arezes ; JS Baptista ; MP Barroso ; P Carneiro ; P Cordeiro ; N Costa ; R Melo ; AS Miguel ; G Perestrelo. Guimarães : PORTUGUESE SOC OCCUPATIONAL SAFETY & HYGIENE, 2015. pp. 409-411

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Simões-Marques, M. J. ; Nunes, I. L. / **Contributions to the design of emergency management intelligent systems**. Occupational Safety and Hygiene II - Selected Extended and Revised Contributions from the International Symposium Occupational Safety and Hygiene, SHO 2014. 2014. pp. 781-786

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Nunes, Isabel L. / **Analysis and risk assessment in a polymer manufacturing industry**. N/A. 2013. pp. 589-592

Nunes, Isabel L. / **Metodologia para Avaliação de Riscos em Postos de Trabalho com computadores**. Occupational Safety and Hygiene. 2013. pp. 367-368

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Vinagre, Pedro ; Nunes, Isabel L. / **Usagame - A new methodology to support user centered design of touchscreen applications**. Design, User Experience, and Usability: Design Philosophy, Methods, and Tools - Second International Conference, DUXU 2013, Held as Part of HCI International 2013, Proceedings. Vol. 8012 LNCS PART 1. ed. 2013. pp. 620-629 (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 1).

Silva, Joel ; Nunes, Isabel L. / **Risk Assessment Methodology for Workplaces with Computers**. Occupational Safety and Hygiene - SHO2013. editor / P Arezes ; JS Baptista ; MP Barroso ; P Carneiro ; N Costa ; R Melo ; AS Miguel ; G Perestrelo ; P Cordeiro. PORTUGUESE SOC OCCUPATIONAL SAFETY & HYGIENE, 2013. pp. 484-486

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Machado, Virgílio António Cruz ; Nunes, Isabel L. / **Integração da Ergonomia e da Segurança na Implementação Lean Six Sigma**. Encontro Nacional de Riscos, Segurança e Fiabilidade. 2012. pp. 965 - 984 (vol 2)

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Nunes, Isabel L. / **Usability Overview**. International Symposium on Industrial Engineering. 2012. pp. 29 - 32

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Dias, Nuno ; Nunes, Isabel L. / **Analysis and risk assessment of work-related MSDs in nurses and nurse assistants**. SHO 2012: INTERNATIONAL SYMPOSIUM ON OCCUPATIONAL SAFETY AND HYGIENE. editor / P Arezes ; JS Baptista ; MP Barroso ; P Carneiro ; P Cordeiro ; N Costa ; R Melo ; AS Miguel ; GP Perestrelo. PORTUGUESE SOC OCCUPATIONAL SAFETY & HYGIENE, 2012. pp. 219-223

Nunes, Isabel L. ; Figueira, Sara ; Machado, Virgílio António Cruz. / **Evaluation of a Supply Chain Performance Using a Fuzzy Decision Support Systems**. 2011 IEEE International Conference on Industrial Engineering and Engineering Management. 2011. pp. 1735-1739

Martins, Goncalo Tavares ; Francisco, Claudia ; Nunes, Isabel L. / **Occupational Risk Analysis at the Hospital Garcia de Orta's Hematology and Oncology Service Day Hospital**. SHO2011: INTERNATIONAL SYMPOSIUM ON OCCUPATIONAL SAFETY AND HYGIENE. editor / P Arezes ; JS Baptista ; MP Barroso ; P Carneiro ; P Cordeiro ; N Costa ; R Melo ; AS Miguel ; GP Perestrelo. PORTUGUESE SOC OCCUPATIONAL SAFETY & HYGIENE, 2011. pp. 388-392

Machado, Virgílio António Cruz ; Nunes, Isabel L. / **"Strategy of Application of Human Performance Management Support Tools in Lean Environments" Case Study**. International Symposium on Occupational Safety and Hygiene. 2010. pp. 163-167

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Research › Book

Nunes, Isabel L. / **Advances in Human Factors and Systems Interaction: Proceedings of the AHFE 2019 International Conference on Human Factors and Systems Interaction, July 24-28, 2019, Washington D.C., USA.** Cham : Springer International Publishing, 2020. (Advances in Intelligent Systems and Computing).

Nunes, Isabel L. / **Advances in Human Factors and Systems Interaction: Proceedings of the AHFE 2018 International Conference on Human Factors and Systems Interaction, July 21-25, 2018, Loews Sapphire Falls Resort at Universal Studios, Orlando, Florida, USA.** Cham : Springer International Publishing, 2019. (Advances in Intelligent Systems and Computing).

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Nunes, Isabel L. / **Promoting occupational safety and health through the supply chain. Literature Review.** Luxembourg : European Agency for Safety and Health at Work (EU-OSHA), 2012.

Nunes, Isabel L. / **Ergonomics - A Systems Approach.** Janeza Trdine 9, 51000 Rijeka, Croatia : InTech, 2012.

Research › Review article

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