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| Formulário de Proposta de Projeto/Estágio | | |
| **Ano 2023/2024, Licenciatura em Engenharia Informática / CEE / Universidade da Madeira** | | |
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| Informação sobre o(s) Orientador(es) | | |
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| Título do projeto | | |
| Task Generator 2.0: leveraging personalized paper and pencil cognitive training to a tablet approach | | |
|  |  |  |
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| URL do Projeto | https://neurorehablab.arditi.pt | E-mail anafaria@staff.uma.pt |

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Preencher no caso de ser uma dissertação proposta pelo aluno:

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| Nome |  | Nº de Aluno |
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|  |  | E-mail |

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| Informação sobre a Dissertação |

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| Informática/Estágio |
| Área Científica  Motivação   |  | | --- | | Cognitive impairments impose important limitations in the performance of activities of daily living. Although there is important evidence on cognitive rehabilitation benefits, its implementation is limited due to the demands in terms of time and human resources. Moreover, many cognitive rehabilitation interventions lack a solid theoretical framework in the selection of paper-and-pencil tasks by the clinicians. In this endeavor, a tool that generates standardized paper-and-pencil tasks, customized according to patients’ needs it’s extremely useful.  Combining the advantages of information and communication technologies and computational models obtained from a participatory design approach with rehabilitation professionals we have developed the Task Generator (TG) (Faria & Bermúdez i Badia, 2015). The TG is a web-based tool that systematically addresses multiple cognitive domains, and easily generates 11 highly personalized paper-and-pencil training tasks. A clinical evaluation of the TG with twenty stroke patients showed that, by enabling the adaptation of task parameters and difficulty levels according to patient cognitive assessment, this tool provides a comprehensive cognitive training. |   Objetivos   |  | | --- | | 1. Implementation of a scoring system for the 11 TG tasks. 2. Implementation of an intervention sessions management system. |   Recursos   |  | | --- | | The supervisors will provide the SW and HW, as well as guidance and technical support.  The candidate is expected:  • To have a technical background with good programming and database management skills (in Javascript, HTML, CSS, MySQL, php).   * Be familiar with Human Computer interaction methods, for the design and evaluation of the proposed system. |   Preencher no caso de o projeto ser desenvolvido numa Entidade Exterior:   |  |  |  | | --- | --- | --- | |  |  | ([       ]) | | Nome da Entidade |  | Contacto Telefónico | |  |  |  | | Morada |  | E-mail |   Observações e/ou Pré-Requisitos   |  | | --- | |  | |