



| Título                                                                                      | Año  | Link                                                                                                    | Revista                                         | Autor UTI responsable | DOI                          |
|---------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------|------------------------------|
| Virtual Environment for the Mashing and Boiling Process in Craft Beer Production            | 2023 | <a href="https://doi.org/10.1007/978-981-19-2397-5_40">https://doi.org/10.1007/978-981-19-2397-5_40</a> | Lecture Notes in Networks and Systems           | José Varela           | 10.1007/978-981-19-2397-5_40 |
| OMNIBEE: Autonomous Omnidirectional Robot for Service Robotics Applications                 | 2023 | <a href="https://doi.org/10.1007/978-981-19-2394-4_36">https://doi.org/10.1007/978-981-19-2394-4_36</a> | Lecture Notes in Networks and Systems           | José Varela           | 10.1007/978-981-19-2394-4_36 |
| The cupboard task: An immersive virtual reality-based system for everyday memory assessment | 2022 | <a href="https://doi.org/10.1016/j.jijhcs.2022.102885">https://doi.org/10.1016/j.jijhcs.2022.102885</a> | International Journal of Human Computer Studies | José Varela           | 10.1016/j.jijhcs.2022.102885 |
| IoT-Based Alternating Current Electrical Parameters Monitoring System                       | 2022 | <a href="https://doi.org/10.3390/en15186637">https://doi.org/10.3390/en15186637</a>                     | Energies                                        | José Varela           | 10.3390/en15186637           |

|                                                                                                                   |      |                                                                                                           |                                                    |              |                               |
|-------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------|-------------------------------|
| System Identification and Nonlinear Model Predictive Control with Collision Avoidance Applied in Hexacopters UAVs | 2022 | <a href="https://doi.org/10.3390/s22134712">https://doi.org/10.3390/s22134712</a>                         | Sensors                                            | José Varela  | 10.3390/s22134712             |
| Income Tax for Microenterprises in the COVID-19 Pandemic: A Case Study on Ecuador                                 | 2022 | <a href="https://doi.org/10.3390/su14052537">https://doi.org/10.3390/su14052537</a>                       | Sustainability (Switzerland)                       | José Varela  | 10.3390/su14052537            |
| Low-Cost Energy Consumption Monitoring System Using NodeMCU                                                       | 2022 | <a href="https://doi.org/10.1007/978-3-031-19961-5_12">https://doi.org/10.1007/978-3-031-19961-5_12</a>   | Communications in Computer and Information Science | Manuel Ayala | 10.1007/978-3-031-19961-5_12  |
| Predicting Academic Performance in Mathematics Using Machine Learning Algorithms                                  | 2022 | <a href="https://doi.org/10.1007/978-3-031-19961-5_2">https://doi.org/10.1007/978-3-031-19961-5_2</a>     | Communications in Computer and Information Science | Manuel Ayala | 10.1007/978-3-031-19961-5_2   |
| IoT Monitoring for Real-Time Control of Industrial Processes                                                      | 2022 | <a href="https://doi.org/10.1007/978-3-031-19961-5_15">https://doi.org/10.1007/978-3-031-19961-5_15</a>   | Communications in Computer and Information Science | Manuel Ayala | 10.1007/978-3-031-19961-5_15  |
| Mobile Manipulator for Hospital Care Using Firebase                                                               | 2022 | <a href="https://doi.org/10.1007/978-3-031-17618-0_24">https://doi.org/10.1007/978-3-031-17618-0_24</a>   | Lecture Notes in Computer Science                  | José Varela  | 10.1007/978-3-031-17618-0_24  |
| Non Immersive Virtual Laboratory Applied to Robotics Arms                                                         | 2022 | <a href="https://doi.org/10.1007/978-3-031-08530-7_76">https://doi.org/10.1007/978-3-031-08530-7_76</a>   | Lecture Notes in Computer Science                  | José Varela  | 10.1007/978-3-031-08530-7_76  |
| Virtual Reality applications based on activities of daily living (ADL) for cognitive diagnosis and rehabilitation | 2022 | <a href="https://doi.org/10.1109/TAE54169.2022.9840591">https://doi.org/10.1109/TAE54169.2022.9840591</a> | IEEE Xplorer                                       | Jorge Buele  | 10.1109/TAE54169.2022.9840591 |

|                                                                                                        |      |                                                                                                           |                                                                    |                 |                               |
|--------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|-------------------------------|
| Influence of inherent parameters within virtual systems on cognitive rehabilitation                    | 2022 | <a href="https://doi.org/10.1109/TAE54169.2022.9840719">https://doi.org/10.1109/TAE54169.2022.9840719</a> | IEEE Xplorer                                                       | José Varela     | 10.1109/TAE54169.2022.9840719 |
| Mapping Monophonic MIDI Tracks to Vibrotactile Stimuli Using Tactile Illusions                         | 2022 | <a href="https://doi.org/10.1007/978-3-031-15019-7_11">https://doi.org/10.1007/978-3-031-15019-7_11</a>   | Lecture Notes in Computer Science                                  | Paul Remache    | 10.1007/978-3-031-15019-7_11  |
| Electric Monitoring System for Residential Customers Using Wireless Technology                         | 2022 | <a href="https://doi.org/10.1007/978-3-031-10548-7_41">https://doi.org/10.1007/978-3-031-10548-7_41</a>   | Lecture Notes in Computer Science                                  | Jorge Buele     | 10.1007/978-3-031-10548-7_41  |
| Cognitive Decline Detection for Alzheimer's Disease Patients Through an Activity of Daily Living (ADL) | 2022 | <a href="https://doi.org/10.1109/TNSRE.2022.3196435">https://doi.org/10.1109/TNSRE.2022.3196435</a>       | IEEE Transactions on Neural Systems and Rehabilitation Engineering | Jorge Buele     | 10.1109/TNSRE.2022.3196435    |
| Multiband Microstrip Antennas for Energy Harvesting Systems                                            | 2022 | <a href="https://doi.org/10.1007/978-3-031-08280-1_11">https://doi.org/10.1007/978-3-031-08280-1_11</a>   | Lecture Notes in Electrical Engineering                            | Myriam Cumbajin | 10.1007/978-3-031-08280-1_11  |
| Monitoring System for Plants Based on a Smart Plant Pot                                                | 2022 | <a href="https://doi.org/10.1007/978-3-031-06388-6_47">https://doi.org/10.1007/978-3-031-06388-6_47</a>   | Communications in Computer and Information Science                 | José Varela     | 10.1007/978-3-031-06388-6_47  |
| Development of a Scale Prototype of Smart Bed Controlled Using a Mobile Application                    | 2022 | <a href="https://doi.org/10.1007/978-3-031-06388-6_49">https://doi.org/10.1007/978-3-031-06388-6_49</a>   | Communications in Computer and Information Science                 | José Varela     | 10.1007/978-3-031-06388-6_49  |
| Pet Access Control System Using a Mobile Application                                                   | 2022 | <a href="https://doi.org/10.1007/978-3-031-06388-6_44">https://doi.org/10.1007/978-3-031-06388-6_44</a>   | Communications in Computer and Information Science                 | José Varela     | 10.1007/978-3-031-06388-6_44  |

|                                                                                                              |      |                                                                                                           |                                                        |                   |                               |
|--------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------|-------------------------------|
| Smart Armband for Tracking Children Using a Mobile Application                                               | 2022 | <a href="https://doi.org/10.1007/978-3-031-06388-6_43">https://doi.org/10.1007/978-3-031-06388-6_43</a>   | Communications in Computer and Information Science     | Franklin Castillo | 10.1007/978-3-031-06388-6_43  |
| Control of a Security Door Through the Internet of Things                                                    | 2022 | <a href="https://doi.org/10.1007/978-3-031-06388-6_52">https://doi.org/10.1007/978-3-031-06388-6_52</a>   | Communications in Computer and Information Science     | José Varela       | 10.1007/978-3-031-06388-6_52  |
| Develop of a Sample Classifier Through Multivariate Analysis for Caffeine as a Bitter Taste Generator        | 2022 | <a href="https://doi.org/10.1007/978-3-031-06394-7_3">https://doi.org/10.1007/978-3-031-06394-7_3</a>     | Communications in Computer and Information Science     | José Varela       | 10.1007/978-3-031-06394-7_3   |
| Salty Taste Intensity Classifier Through Multivariate Analysis                                               | 2022 | <a href="https://doi.org/10.1007/978-3-031-06394-7_4">https://doi.org/10.1007/978-3-031-06394-7_4</a>     | Communications in Computer and Information Science     | José Varela       | 10.1007/978-3-031-06394-7_4   |
| Monitoring Security in a Vehicle Using a Mobile Application                                                  | 2022 | <a href="https://doi.org/10.1007/978-3-031-06394-7_31">https://doi.org/10.1007/978-3-031-06394-7_31</a>   | Communications in Computer and Information Science     | Mario Miranda     | 10.1007/978-3-031-06394-7_31  |
| Smart IoT Monitoring System for Pico-Hydropower Station Based on Permanent Magnet Generator with Radial Flux | 2022 | <a href="https://doi.org/10.1007/978-3-031-03884-6_10">https://doi.org/10.1007/978-3-031-03884-6_10</a>   | Communications in Computer and Information Science     | Myriam Cumbajin   | 10.1007/978-3-031-03884-6_10  |
| Wide Band Antennas for Energy Harvesting                                                                     | 2022 | <a href="https://doi.org/10.1007/978-3-031-03884-6_2">https://doi.org/10.1007/978-3-031-03884-6_2</a>     | Communications in Computer and Information Science     | Myriam Cumbajin   | 10.1007/978-3-031-03884-6_2   |
| Evaluation of the energy autonomy of urban areas as an instrument to promote the energy transition           | 2022 | <a href="https://doi.org/10.1080/15567249.2022.2053897">https://doi.org/10.1080/15567249.2022.2053897</a> | Energy Sources, Part B: Economics, Planning and Policy | Manuel Ayala      | 10.1080/15567249.2022.2053897 |

|                                                                                                                                                         |      |                                                                                                         |                                            |                   |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|------------------------------|
| Comparison of the Operating Parameters of an Internal Combustion Engine During Cold Start, by Applying Two Ecuadorian Fuels of Different Octane Numbers | 2022 | <a href="https://doi.org/10.1007/978-3-030-94262-5_2">https://doi.org/10.1007/978-3-030-94262-5_2</a>   | Lecture Notes in Networks and Systems      | Gerardo Arteaga   | 10.1007/978-3-030-94262-5_2  |
| Automotive Crankcase Design Using Biodegradable Materials                                                                                               | 2022 | <a href="https://doi.org/10.1007/978-3-030-94262-5_4">https://doi.org/10.1007/978-3-030-94262-5_4</a>   | Lecture Notes in Networks and Systems      | Juan Cruz         | 10.1007/978-3-030-94262-5_4  |
| Study of the Influence of Anthropogenic Sources on the Water Quality of the Ambato River, Tungurahua - Ecuador. A Growing Environmental Problem         | 2022 | <a href="https://doi.org/10.1007/978-3-030-94262-5_10">https://doi.org/10.1007/978-3-030-94262-5_10</a> | Lecture Notes in Networks and Systems      | José Varela       | 10.1007/978-3-030-94262-5_10 |
| Temperature Control of an Electric Through Virtual Hardware in the Loop Technique                                                                       | 2022 | <a href="https://doi.org/10.1007/978-981-16-5063-5_56">https://doi.org/10.1007/978-981-16-5063-5_56</a> | Smart Innovation, Systems and Technologies | José Varela       | 10.1007/978-981-16-5063-5_56 |
| Modeling and Control of Omnidirectional Robots with Displaced Center of Mass                                                                            | 2022 | <a href="https://doi.org/10.1007/978-981-16-5063-5_57">https://doi.org/10.1007/978-981-16-5063-5_57</a> | Smart Innovation, Systems and Technologies | José Varela       | 10.1007/978-981-16-5063-5_57 |
| Soda Bottling Process Through the Virtual Hardware in the Loop Technique                                                                                | 2022 | <a href="https://doi.org/10.1007/978-981-16-5063-5_51">https://doi.org/10.1007/978-981-16-5063-5_51</a> | Smart Innovation, Systems and Technologies | Mario Miranda     | 10.1007/978-981-16-5063-5_51 |
| Advanced Controllers for Level Processes: Hardware-in-the-Loop Technique                                                                                | 2022 | <a href="https://doi.org/10.1007/978-981-16-5063-5_59">https://doi.org/10.1007/978-981-16-5063-5_59</a> | Smart Innovation, Systems and Technologies | Franklin Castillo | 10.1007/978-981-16-5063-5_59 |

|                                                                                                                                                                                                                                           |      |                                                                                                                       |                                            |               |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------|------------------------------|
| Virtual Environment of an Industrial Process for Learning and Teaching                                                                                                                                                                    | 2022 | <a href="https://doi.org/10.1007/978-981-16-5063-5_58">https://doi.org/10.1007/978-981-16-5063-5_58</a>               | Smart Innovation, Systems and Technologies | Fernando SaÃ¡ | 10.1007/978-981-16-5063-5_58 |
| Virtual Environments to Fuzzy Control Applied to Nonlinear Autoclave Reactor                                                                                                                                                              | 2022 | <a href="https://doi.org/10.1007/978-981-16-5063-5_55">https://doi.org/10.1007/978-981-16-5063-5_55</a>               | Smart Innovation, Systems and Technologies | Belen Ruales  | 10.1007/978-981-16-5063-5_55 |
| Vortex Optimization of a Low-Head Gravity Hydroelectric Power Plant                                                                                                                                                                       | 2022 | <a href="https://doi.org/10.1007/978-981-16-6269-0_23">https://doi.org/10.1007/978-981-16-6269-0_23</a>               | Smart Innovation, Systems and Technologies | Manuel Ayala  | 10.1007/978-981-16-6269-0_23 |
| Prevention of Failures in the Footwear Production Process by Applying Machine Learning                                                                                                                                                    | 2022 | <a href="https://doi.org/10.1007/978-981-16-6128-0_2">https://doi.org/10.1007/978-981-16-6128-0_2</a>                 | Smart Innovation, Systems and Technologies | Manuel Ayala  | 10.1007/978-981-16-6128-0_2  |
| DEVELOPMENT OF THE PROPERTY RIGHTS OF AUTHORS OF MUSICAL WORKS AND THEIR COLLECTIVE MANAGEMENT IN ECUADOR AND SPAIN [DESARROLLO DE LOS DERECHOS PATRIMONIALES DE AUTORES DE OBRAS MUSICALES Y SU GESTIÃ“N COLECTIVA EN ECUADOR Y ESPAÃ‘A] | 2022 | <a href="http://repositorio.uti.edu.ec/handle/123456789/3791">http://repositorio.uti.edu.ec/handle/123456789/3791</a> | Universidad y Sociedad                     | Ana Alvarez   | Â                            |

|                                                                                                                                                                                                                                 |      |                                                                                                                       |                                                                 |             |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------|-------------------------------|
| AN ASSESSMENT OF CUBAN FOOD SECURITY BASED ON THE AGRICULTURAL AREA UNDER CULTIVATION AND AGRICULTURAL YIELDS [DE LA SEGURIDAD ALIMENTARIA CUBANA A PARTIR DE LA SUPER-FICIE AGR  COLA EXPLOTADA Y LOS RENDIMIENTOS AGR  COLAS] | 2022 | <a href="http://repositorio.uti.edu.ec/handle/123456789/3796">http://repositorio.uti.edu.ec/handle/123456789/3796</a> | Universidad y Sociedad                                          | Ana Alvarez |                               |
| Application of the Total Movements Minimization Criterion in a Weapons and Ammunition Factory [Aplicaci  n del Criterio de Minimizaci  n de Movimientos Totales en una F  brica de armas y municiones]                          | 2022 | <a href="http://repositorio.uti.edu.ec/handle/123456789/3688">http://repositorio.uti.edu.ec/handle/123456789/3688</a> | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | Ana Alvarez |                               |
| Tools for Occupational Diseases Control in the Artisan Figures of Marzipan                                                                                                                                                      | 2022 | <a href="https://doi.org/10.1007/978-3-030-85540-6">https://doi.org/10.1007/978-3-030-85540-6</a>                     | Lecture Notes in Networks and Systems                           | Ana Alvarez | 10.1007/978-3-030-85540-6_132 |
| Design of an Equipment for the Treatment of Domestic Greywater                                                                                                                                                                  | 2022 | <a href="https://doi.org/10.1007/978-3-030-94262-5_9">https://doi.org/10.1007/978-3-030-94262-5_9</a>                 | Lecture Notes in Networks and Systems                           | Pablo Ron   | 10.1007/978-3-030-94262-5_9   |

|                                                                                                                                |      |                                                                                                               |                                                                             |              |                                 |
|--------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|---------------------------------|
| Underwater Power Generator Based on Gravity Vortex Siphon Boost Energy Transition                                              | 2021 | <a href="https://doi.org/10.13044/J.SDEWES.D8.O374">https://doi.org/10.13044/J.SDEWES.D8.O374</a>             | Journal of Sustainable Development of Energy, Water and Environment Systems | Manuel Ayala | 10.13044/J.SDEWES.D8.O374       |
| Audio-tactile rendering: A review on technology and methods to convey musical information through the sense of touch           | 2021 | <a href="https://doi.org/10.3390/s21196575">https://doi.org/10.3390/s21196575</a>                             | Sensors                                                                     | Paul Remache | 10.3390/s21196575               |
| Monitoring System for Physical Water Quality Parameters and Automatic Control for Chlorine Dosing in a Aerator Treatment Plant | 2021 | <a href="https://doi.org/10.1088/1742-6596/1878/1/O12065">https://doi.org/10.1088/1742-6596/1878/1/O12065</a> | Journal of Physics: Conference Series                                       | Jorge Buele  | 10.1088/1742-6596/1878/1/O12065 |
| Maintenance Plan Based on TPM for Turbine Recovery Machinery                                                                   | 2021 | <a href="https://doi.org/10.1088/1742-6596/1878/1/O12034">https://doi.org/10.1088/1742-6596/1878/1/O12034</a> | Journal of Physics: Conference Series                                       | Andres Lara  | 10.1088/1742-6596/1878/1/O12034 |
| Facial recognition system for people with and without face mask in times of the covid-19 pandemic                              | 2021 | <a href="https://doi.org/10.3390/su13126900">https://doi.org/10.3390/su13126900</a>                           | Sustainability (Switzerland)                                                | José Varela  | 10.3390/su13126900              |
| Static reactive power compensator design, based on three-phase voltage converter                                               | 2021 | <a href="https://doi.org/10.3390/en14082198">https://doi.org/10.3390/en14082198</a>                           | Energies                                                                    | Manuel Ayala | 10.3390/en14082198              |

|                                                                                              |      |                                                                                                         |                                       |              |                              |
|----------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|---------------------------------------|--------------|------------------------------|
| A virtual reality-based cognitive telerehabilitation system for use in the covid-19 pandemic | 2021 | <a href="https://doi.org/10.3390/su13042183">https://doi.org/10.3390/su13042183</a>                     | Sustainability (Switzerland)          | José Varela  | 10.3390/su13042183           |
| Design for the automation of an Ambu Spur II manual respirator                               | 2021 | <a href="https://doi.org/10.3390/machines9020045">https://doi.org/10.3390/machines9020045</a>           | Machines                              | Manuel Ayala | 10.3390/machines9020045      |
| Management and Control of Occupational Risks in the Manufacture of Fuel and Oil Filter Caps  | 2021 | <a href="https://doi.org/10.1007/978-3-030-80288-2_34">https://doi.org/10.1007/978-3-030-80288-2_34</a> | Lecture Notes in Networks and Systems | Pablo Ron    | 10.1007/978-3-030-80288-2_34 |
| Application for the cooperative control of mobile robots with energy optimization            | 2021 | <a href="https://doi.org/10.1007/978-3-030-78465-2_25">https://doi.org/10.1007/978-3-030-78465-2_25</a> | Lecture Notes in Computer Science     | José Varela  | 10.1007/978-3-030-78465-2_25 |
| Virtual Control of a Double Effect Evaporator for Teaching-Learning Processes                | 2021 | <a href="https://doi.org/10.1007/978-3-030-87595-4_50">https://doi.org/10.1007/978-3-030-87595-4_50</a> | Lecture Notes in Computer Science     | José Varela  | 10.1007/978-3-030-87595-4_50 |
| Virtual Control of a Perfectly Stirred Reactor for Cyclopentene Production                   | 2021 | <a href="https://doi.org/10.1007/978-3-030-87595-4_49">https://doi.org/10.1007/978-3-030-87595-4_49</a> | Lecture Notes in Computer Science     | José Varela  | 10.1007/978-3-030-87595-4_49 |
| Virtual System for Industrial Processes: Distillation Towers                                 | 2021 | <a href="https://doi.org/10.1007/978-3-030-87595-4_48">https://doi.org/10.1007/978-3-030-87595-4_48</a> | Lecture Notes in Computer Science     | José Varela  | 10.1007/978-3-030-87595-4_48 |
| Precision Shooting Training System Using Augmented Reality                                   | 2021 | <a href="https://doi.org/10.1007/978-3-030-87013-3_22">https://doi.org/10.1007/978-3-030-87013-3_22</a> | Lecture Notes in Computer Science     | Jorge Buele  | 10.1007/978-3-030-87013-3_22 |

|                                                                                                                |      |                                                                                                         |                                                    |               |                              |
|----------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------|------------------------------|
| Commercial Entry Control Using Robotic Mechanism and Mobile Application for COVID-19 Pandemic                  | 2021 | <a href="https://doi.org/10.1007/978-3-030-87013-3_1">https://doi.org/10.1007/978-3-030-87013-3_1</a>   | Lecture Notes in Computer Science                  | José Varela   | 10.1007/978-3-030-87013-3_1  |
| Process Optimization of Advertising Articles Using an Integrated Strategy of Production and Environmental Care | 2021 | <a href="https://doi.org/10.1007/978-3-030-80876-1_10">https://doi.org/10.1007/978-3-030-80876-1_10</a> | Lecture Notes in Networks and Systems              | Hernan Espejo | 10.1007/978-3-030-80876-1_10 |
| Voltammetric Electronic Tongues Applied to Classify Sucrose Samples Through Multivariate Analysis              | 2021 | <a href="https://doi.org/10.1007/978-3-030-80624-8_27">https://doi.org/10.1007/978-3-030-80624-8_27</a> | Lecture Notes in Networks and Systems              | José Varela   | 10.1007/978-3-030-80624-8_27 |
| Teaching-Learning in the Industrial Engineering Career in Times of COVID-19                                    | 2021 | <a href="https://doi.org/10.1007/978-3-030-77889-7_36">https://doi.org/10.1007/978-3-030-77889-7_36</a> | Lecture Notes in Computer Science                  | Fernando Sañj | 10.1007/978-3-030-77889-7_36 |
| Prototype System for Control the ScorBot ER-4U Robotic Arm Using Free Tools                                    | 2021 | <a href="https://doi.org/10.1007/978-3-030-79997-7_20">https://doi.org/10.1007/978-3-030-79997-7_20</a> | Lecture Notes in Networks and Systems              | Jorge Buele   | 10.1007/978-3-030-79997-7_20 |
| Lifecycle assessment of electricity generation transition in ecuador                                           | 2021 | <a href="https://doi.org/10.1007/978-981-16-0749-3_1">https://doi.org/10.1007/978-981-16-0749-3_1</a>   | Lecture Notes in Electrical Engineering            | Manuel Ayala  | 10.1007/978-981-16-0749-3_1  |
| Carwash Station Prototype with Automatic Payment Using Intelligent Control Systems                             | 2021 | <a href="https://doi.org/10.1007/978-3-030-71503-8_18">https://doi.org/10.1007/978-3-030-71503-8_18</a> | Communications in Computer and Information Science | Jorge Buele   | 10.1007/978-3-030-71503-8_18 |

|                                                                                                                                        |      |                                                                                                         |                                                    |                   |                              |
|----------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------|------------------------------|
| Design and Construction of a Low Cost CNC Milling Machine for Woodworking                                                              | 2021 | <a href="https://doi.org/10.1007/978-3-030-71503-8_29">https://doi.org/10.1007/978-3-030-71503-8_29</a> | Communications in Computer and Information Science | Manuel Ayala      | 10.1007/978-3-030-71503-8_29 |
| Construction of a Low-Cost Semi-automatic Machine for Tensile Testing                                                                  | 2021 | <a href="https://doi.org/10.1007/978-3-030-71503-8_17">https://doi.org/10.1007/978-3-030-71503-8_17</a> | Communications in Computer and Information Science | José Varela       | 10.1007/978-3-030-71503-8_17 |
| System for Monitoring and Controlling Industrial Lighting with Amazon Alexa                                                            | 2021 | <a href="https://doi.org/10.1007/978-3-030-72660-7_45">https://doi.org/10.1007/978-3-030-72660-7_45</a> | Advances in Intelligent Systems and Computing      | Manuel Ayala      | 10.1007/978-3-030-72660-7_45 |
| Interpreting Felony Acts Using Georeferenced Data. Case Study in Ambato, Ecuador                                                       | 2021 | <a href="https://doi.org/10.1007/978-3-030-71503-8_4">https://doi.org/10.1007/978-3-030-71503-8_4</a>   | Communications in Computer and Information Science | Franklin Castillo | 10.1007/978-3-030-71503-8_4  |
| Body Temperature Control Using a Robotic Arm                                                                                           | 2021 | <a href="https://doi.org/10.1007/978-3-030-72208-1_21">https://doi.org/10.1007/978-3-030-72208-1_21</a> | Lecture Notes in Electrical Engineering            | José Varela       | 10.1007/978-3-030-72208-1_21 |
| Design of a Human Machine Interface for Programming and Testing Adjustable Frequency Drives for Constant Pressure Pumping Applications | 2021 | <a href="https://doi.org/10.1007/978-3-030-58282-1_19">https://doi.org/10.1007/978-3-030-58282-1_19</a> | Advances in Intelligent Systems and Computing      | Paul Remache      | 10.1007/978-3-030-58282-1_19 |
| Maneuvers Under Estimation of Human Postures for Autonomous Navigation of Robot KUKA YouBot                                            | 2021 | <a href="https://doi.org/10.1007/978-3-030-55180-3_25">https://doi.org/10.1007/978-3-030-55180-3_25</a> | Advances in Intelligent Systems and Computing      | Myriam Cumbajin   | 10.1007/978-3-030-55180-3_25 |

|                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                                                                                                     |                                                                 |               |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------|------------------------------|
| Renewable Energy System Design for Electric Power Generation on Urban Historical Heritage Places in Ecuador                                                                                                                                                                       | 2021 | <a href="https://doi.org/10.1007/978-3-030-51328-3_82">https://doi.org/10.1007/978-3-030-51328-3_82</a>                                                                                                                             | Advances in Intelligent Systems and Computing                   | Liliana Topon | 10.1007/978-3-030-51328-3_82 |
| Head-mounted display-based application for cognitive training                                                                                                                                                                                                                     | 2020 | <a href="https://doi.org/10.3390/s20226552">https://doi.org/10.3390/s20226552</a>                                                                                                                                                   | Sensors (Switzerland)                                           | José Varela   | 10.3390/s20226552            |
| Implementation of an electro-optical sensor in the twin otter fae plane for the strengthening of the strategic surveillance capacity<br>[Implementaci3n de un sensor electro-3ptico en el avi3n twin otter fae para el fortalecimiento de la capacidad estrat3gica de vigilancia] | 2020 | <a href="https://www.proquest.com/openview/Of5c06f94949d960a18a234731e35516/1?pq-origsite=gsc-holar&amp;cbl=1006393">https://www.proquest.com/openview/Of5c06f94949d960a18a234731e35516/1?pq-origsite=gsc-holar&amp;cbl=1006393</a> | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | Jorge Buele   | Â                            |
| Structural design of a telemetry and video surveillance system implemented in a UAV<br>[Dise±o estructural de un sistema de telemetr3a y videovigilancia implementado en un UAV]                                                                                                  | 2020 | <a href="https://www.proquest.com/openview/Of1ce8dc95b3e25d405422fb92cb5ca3/1?pq-origsite=gsc-holar&amp;cbl=1006393">https://www.proquest.com/openview/Of1ce8dc95b3e25d405422fb92cb5ca3/1?pq-origsite=gsc-holar&amp;cbl=1006393</a> | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | Jorge Buele   | Â                            |

|                                                                                                                     |      |                                                                                                         |                                                    |              |                              |
|---------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------|------------------------------|
| Anthropization and growth of the electricity grid as variables for the analysis of urban infrastructure             | 2020 | <a href="https://doi.org/10.3390/su12041486">https://doi.org/10.3390/su12041486</a>                     | Sustainability (Switzerland)                       | Manuel Ayala | 10.3390/su12041486           |
| Prototype of a Low Cost Turbine for the Generation of Clean Energy in the Ecuadorian Amazon                         | 2020 | <a href="https://doi.org/10.1007/978-3-030-62833-8_41">https://doi.org/10.1007/978-3-030-62833-8_41</a> | Communications in Computer and Information Science | Jorge Buele  | 10.1007/978-3-030-62833-8_41 |
| Prototype System of Geolocation Educational Public Transport Through Google Maps API                                | 2020 | <a href="https://doi.org/10.1007/978-3-030-58817-5_28">https://doi.org/10.1007/978-3-030-58817-5_28</a> | Lecture Notes in Computer Science                  | Jorge Buele  | 10.1007/978-3-030-58817-5_28 |
| 3D Object Reconstruction Using Concatenated Matrices with MS Kinect: A Contribution to Interiors Architecture       | 2020 | <a href="https://doi.org/10.1007/978-3-030-58817-5_49">https://doi.org/10.1007/978-3-030-58817-5_49</a> | Lecture Notes in Computer Science                  | Jorge Buele  | 10.1007/978-3-030-58817-5_49 |
| Telemetry and Video Surveillance System in a UAV for the Control and Monitoring of Long-Distance Missions           | 2020 | <a href="https://doi.org/10.1007/978-3-030-58817-5_48">https://doi.org/10.1007/978-3-030-58817-5_48</a> | Lecture Notes in Computer Science                  | Jorge Buele  | 10.1007/978-3-030-58817-5_48 |
| Temperature Controller Using the Takagi-Sugeno-Kang Fuzzy Inference System for an Industrial Heat Treatment Furnace | 2020 | <a href="https://doi.org/10.1007/978-3-030-58817-5_27">https://doi.org/10.1007/978-3-030-58817-5_27</a> | Lecture Notes in Computer Science                  | Jorge Buele  | 10.1007/978-3-030-58817-5_27 |

|                                                                                                                  |      |                                                                                                         |                                                    |                 |                              |
|------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------|------------------------------|
| System for Monitoring and Warning of the Ultraviolet Radiation Index: A Study Case in Ecuador Elementary Schools | 2020 | <a href="https://doi.org/10.1007/978-3-030-58817-5_60">https://doi.org/10.1007/978-3-030-58817-5_60</a> | Lecture Notes in Computer Science                  | Jorge Buele     | 10.1007/978-3-030-58817-5_60 |
| Immersive virtual reality app to promote healthy eating in children                                              | 2020 | <a href="https://doi.org/10.1007/978-3-030-50729-9_2">https://doi.org/10.1007/978-3-030-50729-9_2</a>   | Communications in Computer and Information Science | José Varela     | 10.1007/978-3-030-50729-9_2  |
| Teaching stem competencies through an educational mobile robot                                                   | 2020 | <a href="https://doi.org/10.1007/978-3-030-50506-6_38">https://doi.org/10.1007/978-3-030-50506-6_38</a> | Lecture Notes in Computer Science                  | José Varela     | 10.1007/978-3-030-50506-6_38 |
| Robotic cane for the visually impaired                                                                           | 2020 | <a href="https://doi.org/10.1007/978-3-030-49282-3_36">https://doi.org/10.1007/978-3-030-49282-3_36</a> | Lecture Notes in Computer Science                  | José Varela     | 10.1007/978-3-030-49282-3_36 |
| Design and Implementation of a Wastewater Heat Recovery System Prototype for Electric Showers in Quito-Ecuador   | 2020 | <a href="https://doi.org/10.1007/978-3-030-51981-0_41">https://doi.org/10.1007/978-3-030-51981-0_41</a> | Advances in Intelligent Systems and Computing      | Paul Remache    | 10.1007/978-3-030-51981-0_41 |
| Automation of a Lathe to Increase Productivity in the Manufacture of Stems of a Metalworking Company             | 2020 | <a href="https://doi.org/10.1007/978-3-030-42531-9_20">https://doi.org/10.1007/978-3-030-42531-9_20</a> | Communications in Computer and Information Science | José Varela     | 10.1007/978-3-030-42531-9_20 |
| Multiband Broadband Modulator Implementation on Field-Programmable Gate Array                                    | 2020 | <a href="https://doi.org/10.1007/978-3-030-42531-9_26">https://doi.org/10.1007/978-3-030-42531-9_26</a> | Communications in Computer and Information Science | Myriam Cumbajin | 10.1007/978-3-030-42531-9_26 |

|                                                                                                               |      |                                                                                                         |                                                    |                 |                              |
|---------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------|------------------------------|
| Michell-Banki a Promise Turbine for Pico-Hydro in Water Irrigation Channel                                    | 2020 | <a href="https://doi.org/10.1007/978-3-030-42531-9_25">https://doi.org/10.1007/978-3-030-42531-9_25</a> | Communications in Computer and Information Science | Myriam Cumbajin | 10.1007/978-3-030-42531-9_25 |
| Support vector machine as tool for classifying coffee beverages                                               | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_27">https://doi.org/10.1007/978-3-030-40690-5_27</a> | Advances in Intelligent Systems and Computing      | José Varela     | 10.1007/978-3-030-40690-5_27 |
| Inverse kinematics of a redundant manipulator robot using constrained optimization                            | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_23">https://doi.org/10.1007/978-3-030-40690-5_23</a> | Advances in Intelligent Systems and Computing      | José Varela     | 10.1007/978-3-030-40690-5_23 |
| Multi-criteria analysis of turbines for pico-hydro power plant in water irrigation channel                    | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_20">https://doi.org/10.1007/978-3-030-40690-5_20</a> | Advances in Intelligent Systems and Computing      | Myriam Cumbajin | 10.1007/978-3-030-40690-5_20 |
| Virtual goniometer using 3 space mocap sensors for lower limbs evaluation                                     | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_43">https://doi.org/10.1007/978-3-030-40690-5_43</a> | Advances in Intelligent Systems and Computing      | Jorge Buele     | 10.1007/978-3-030-40690-5_43 |
| Suitable electric generator for pico-hydro power plant in ambatoâ€“huachiâ€“pe lileo water irrigation channel | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_19">https://doi.org/10.1007/978-3-030-40690-5_19</a> | Advances in Intelligent Systems and Computing      | Myriam Cumbajin | 10.1007/978-3-030-40690-5_19 |
| Construction of a WBGT index meter using low cost devices                                                     | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_45">https://doi.org/10.1007/978-3-030-40690-5_45</a> | Advances in Intelligent Systems and Computing      | José Varela     | 10.1007/978-3-030-40690-5_45 |
| Virtual environment application that complements the treatment of dyslexia (VEATD) in children                | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_33">https://doi.org/10.1007/978-3-030-40690-5_33</a> | Advances in Intelligent Systems and Computing      | Jorge Buele     | 10.1007/978-3-030-40690-5_33 |

|                                                                                                                      |      |                                                                                                         |                                                      |               |                              |
|----------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------|------------------------------|
| Comparison between fuzzy control and MPC algorithms implemented in low-cost embedded devices                         | 2020 | <a href="https://doi.org/10.1007/978-3-030-40690-5_42">https://doi.org/10.1007/978-3-030-40690-5_42</a> | Advances in Intelligent Systems and Computing        | Jorge Buele   | 10.1007/978-3-030-40690-5_42 |
| Vehicle locking system using an electronic breathalyzer and notification by mobile communication                     | 2020 | <a href="https://doi.org/10.1166/jctn.2020.8652">https://doi.org/10.1166/jctn.2020.8652</a>             | Journal of Computational and Theoretical Nanoscience | Jorge Buele   | 10.1166/jctn.2020.8652       |
| Wheelchair Controlled by Eye Movement Using Raspberry Pi for ALS Patients                                            | 2020 | <a href="https://doi.org/10.1007/978-3-030-35740-5_9">https://doi.org/10.1007/978-3-030-35740-5_9</a>   | Advances in Intelligent Systems and Computing        | Jorge Buele   | 10.1007/978-3-030-35740-5_9  |
| Analysis and Determination of Minimum Requirements of an Autopilot for the Control of Unmanned Aerial Vehicles (UAV) | 2020 | <a href="https://doi.org/10.1007/978-3-030-33614-1_9">https://doi.org/10.1007/978-3-030-33614-1_9</a>   | Advances in Intelligent Systems and Computing        | Jorge Buele   | 10.1007/978-3-030-33614-1_9  |
| Educational Robot Using Lego Mindstorms and Mobile Device                                                            | 2020 | <a href="https://doi.org/10.1007/978-3-030-33614-1_5">https://doi.org/10.1007/978-3-030-33614-1_5</a>   | Advances in Intelligent Systems and Computing        | José Varela   | 10.1007/978-3-030-33614-1_5  |
| Design of an Ergonomic Prototype for Physical Rehabilitation of People with Paraplegia                               | 2020 | <a href="https://doi.org/10.1007/978-3-030-33614-1_23">https://doi.org/10.1007/978-3-030-33614-1_23</a> | Advances in Intelligent Systems and Computing        | Jorge Buele   | 10.1007/978-3-030-33614-1_23 |
| Automation of the Feeding System for Washing Vehicles Using Low Cost Devices                                         | 2020 | <a href="https://doi.org/10.1007/978-3-030-32033-1_13">https://doi.org/10.1007/978-3-030-32033-1_13</a> | Advances in Intelligent Systems and Computing        | Fernando Sañj | 10.1007/978-3-030-32033-1_13 |

|                                                                                                                              |      |                                                                                                           |                                               |               |                               |
|------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------|-------------------------------|
| Dynamics of a Unicycle-Type Wheeled Mobile Manipulator Robot                                                                 | 2020 | <a href="https://doi.org/10.1007/978-3-030-32033-1_3">https://doi.org/10.1007/978-3-030-32033-1_3</a>     | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-32033-1_3   |
| Test System for Control Algorithms on a DC Motor                                                                             | 2020 | <a href="https://doi.org/10.1007/978-3-030-32033-1_15">https://doi.org/10.1007/978-3-030-32033-1_15</a>   | Advances in Intelligent Systems and Computing | Fernando Sañi | 10.1007/978-3-030-32033-1_15  |
| Detection of Student Behavior Profiles Applying Neural Networks and Decision Trees                                           | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_90">https://doi.org/10.1007/978-3-030-27928-8_90</a>   | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_90  |
| Preprocessing Information from a Data Network for the Detection of User Behavior Patterns                                    | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_101">https://doi.org/10.1007/978-3-030-27928-8_101</a> | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_101 |
| Detection and Classification of Facial Features Through the Use of Convolutional Neural Networks (CNN) in Alzheimer Patients | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_94">https://doi.org/10.1007/978-3-030-27928-8_94</a>   | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_94  |
| Development of Behavior Profile of Users with Visual Impairment                                                              | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_75">https://doi.org/10.1007/978-3-030-27928-8_75</a>   | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_75  |
| Autonomous Learning Mediated by Digital Technology Processes in Higher Education: A Systematic Review                        | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_11">https://doi.org/10.1007/978-3-030-27928-8_11</a>   | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_11  |

|                                                                                                                             |      |                                                                                                           |                                               |               |                               |
|-----------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------|-------------------------------|
| Twitter Mining for Multiclass Classification Events of Traffic and Pollution                                                | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_153">https://doi.org/10.1007/978-3-030-27928-8_153</a> | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_153 |
| Control of an Arm-Hand Prosthesis by Mental Commands and Blinking                                                           | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_24">https://doi.org/10.1007/978-3-030-27928-8_24</a>   | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_24  |
| Editorial Design Based on User Experience Design                                                                            | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_63">https://doi.org/10.1007/978-3-030-27928-8_63</a>   | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_63  |
| A Comparison of Heart Rate in Normal Physical Activity vs. Immersive Virtual Reality Exergames                              | 2020 | <a href="https://doi.org/10.1007/978-3-030-27928-8_104">https://doi.org/10.1007/978-3-030-27928-8_104</a> | Advances in Intelligent Systems and Computing | José Varela   | 10.1007/978-3-030-27928-8_104 |
| Application to guide people with visual disability on internal buildings, using beacon bluetooth positioning systems        | 2020 | <a href="https://doi.org/10.1007/978-3-030-19135-1_37">https://doi.org/10.1007/978-3-030-19135-1_37</a>   | Advances in Intelligent Systems and Computing | Patricio Lara | 10.1007/978-3-030-19135-1_37  |
| Improving usability with think aloud and focus group methods. A case study: an intelligent police patrolling system (i-PAT) | 2020 | <a href="https://doi.org/10.1007/978-3-030-20040-4_33">https://doi.org/10.1007/978-3-030-20040-4_33</a>   | Advances in Intelligent Systems and Computing | Patricio Lara | 10.1007/978-3-030-20040-4_33  |
| Accessibility assessment in mobile applications for android                                                                 | 2020 | <a href="https://doi.org/10.1007/978-3-030-20040-4_25">https://doi.org/10.1007/978-3-030-20040-4_25</a>   | Advances in Intelligent Systems and Computing | Patricio Lara | 10.1007/978-3-030-20040-4_25  |

|                                                                                                                                                                                                                                |      |                                                                                                                       |                                                                 |                 |                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------|------------------------------|
| Building hybrid interfaces to increase interaction with young children and children with special needs                                                                                                                         | 2020 | <a href="https://doi.org/10.1007/978-3-030-20040-4_28">https://doi.org/10.1007/978-3-030-20040-4_28</a>               | Advances in Intelligent Systems and Computing                   | Patricio Lara   | 10.1007/978-3-030-20040-4_28 |
| Development of an accessible video game to improve the understanding of the test of honey-alonso                                                                                                                               | 2020 | <a href="https://doi.org/10.1007/978-3-030-20040-4_26">https://doi.org/10.1007/978-3-030-20040-4_26</a>               | Advances in Intelligent Systems and Computing                   | Patricio Lara   | 10.1007/978-3-030-20040-4_26 |
| Implementation of controls for insertion of accessible images in open online editors based on WCAG guidelines. Case studies: TinyMce and summernote                                                                            | 2020 | <a href="https://doi.org/10.1007/978-3-030-20040-4_29">https://doi.org/10.1007/978-3-030-20040-4_29</a>               | Advances in Intelligent Systems and Computing                   | Patricio Lara   | 10.1007/978-3-030-20040-4_29 |
| Fuzzy model for back posture correction during the walk                                                                                                                                                                        | 2020 | <a href="https://doi.org/10.1007/978-3-030-20040-4_27">https://doi.org/10.1007/978-3-030-20040-4_27</a>               | Advances in Intelligent Systems and Computing                   | Patricio Lara   | 10.1007/978-3-030-20040-4_27 |
| Integration of renewable energies in conventional power systems based on computational reliability [Integración de energías renovables en sistemas de energía eléctrica convencionales basados en confiabilidad computacional] | 2019 | <a href="http://repositorio.uti.edu.ec/handle/123456789/3084">http://repositorio.uti.edu.ec/handle/123456789/3084</a> | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | Myriam Cumbajin |                              |

|                                                                                                                                                                                                                                       |      |                                                                                                                                           |                                                                 |                 |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------|------------------------------|
| Immersive virtual reality app for mild cognitive impairment                                                                                                                                                                           | 2019 | <a href="https://www.proquest.com/openview/841aa93ba3c3df45c">https://www.proquest.com/openview/841aa93ba3c3df45c</a>                     | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | José Varela     |                              |
| Convolutional neural network oriented to the gesticulation control of an interactive social robot with humanoid aspect [Red neuronal convolucional orientado a la gesticulación de un robot social interactivo con aspecto humanoide] | 2019 | <a href="http://repositorio.uti.edu.ec/handle/123456789/3103">http://repositorio.uti.edu.ec/handle/123456789/3103</a>                     | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | Myriam Cumbajin |                              |
| Teleoperation of a mobile manipulator with feedback forces for evasion of obstacles [Teleoperación de un manipulador móvil con retroalimentación de fuerzas para evasión de obstáculos]                                               | 2019 | <a href="http://repositorio.uti.edu.ec/handle/123456789/3104?locale=en">http://repositorio.uti.edu.ec/handle/123456789/3104?locale=en</a> | RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao | José Varela     |                              |
| Effects of immersive virtual reality on the heart rate of athletes' warm-up                                                                                                                                                           | 2019 | <a href="https://doi.org/10.1007/978-3-030-25965-5_14">https://doi.org/10.1007/978-3-030-25965-5_14</a>                                   | Lecture Notes in Computer Science                               | José Varela     | 10.1007/978-3-030-25965-5_14 |

|                                                                                       |      |                                                                                                         |                                               |               |                              |
|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------|------------------------------|
| Efficiency Analysis Between Free and Paid Hardware and Software in a Pneumatic Press  | 2019 | <a href="https://doi.org/10.1007/978-3-030-11890-7_39">https://doi.org/10.1007/978-3-030-11890-7_39</a> | Advances in Intelligent Systems and Computing | Fernando SaÃ¡ | 10.1007/978-3-030-11890-7_39 |
| Modelling and control of a mobile manipulator for trajectory tracking                 | 2018 | <a href="https://doi.org/10.1109/INCISCOS.2018.00018">https://doi.org/10.1109/INCISCOS.2018.00018</a>   | IEEE Xplorer                                  | José Varela   | 10.1109/INCISCOS.2018.00018  |
| Modeling and control of a wheelchair considering center of mass lateral displacements | 2015 | <a href="https://doi.org/10.1007/978-3-319-22873-0_23">https://doi.org/10.1007/978-3-319-22873-0_23</a> | Lecture Notes in Computer Science             | José Varela   | 10.1007/978-3-319-22873-0_23 |