



AGINOV

INNOVATION AGENCY OF STATE UNIVERSITY OF MATO GROSSO

UNEMAT'S TECHNOLOGICAL PORTFOLIO

2022 EDITION

CATALOG SHEET

MATO GROSSO STATE UNIVERSITY

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UNEMAT'S TECHNOLOGICAL PORTFOLIO - 2022 EDITION

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UNEMAT
Universidade do Estado de Mato Grosso
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EDITORA
UNEMAT


Associação Brasileira
das Editoras Universitárias

PRESENTATION

UNEMAT's Innovation Agency - AGINOV - was established in 2019, by Resolution No. 043/2019 - CONSUNI, and is the Technological Innovation Nucleo of the State University of Mato Grosso - UNEMAT.

Its mission is to manage and to promote the university's innovation policy, as well as entrepreneurship, the knowledge dissemination through interaction with the productive sector and society.

In this scenario, AGINOV's performance is based on three following axes: I) Intellectual Property and Technology Transfer; II) Strategic Alliances and III) Entrepreneurship.

Based on these axes, some of the Agency's strategic actions include:

- Guidance, support and management of academic intellectual property, technology transfer, licensing for use or exploration about creations carried out within the scope of the university and/or resulting from partnerships;
- Encouraging the development of an entrepreneurial profile of students, professors and technical professionals, with mapping of expertise focused on innovation in the most diverse areas of knowledge;

- Creation of alliances with productive sector/government, independent inventors and/or international partners involving research, development and innovation projects, provision of specialized technical services, innovative solutions in products/processes/services.

AGINOV has sought to meet society's demands and, through its scientific research professionals, offers products aimed at the development of the State of Mato Grosso. The publication of this 1st Edition of the UNEMAT's Technological Portfolio - 2022 Edition - exposes as a showcase what the university currently offers to Mato Grosso society in terms of innovation.

When it comes to innovation and the era of changes, this showcase will be constantly stocked and disseminated through our institution's official channels, in response to the demands and real challenges of society based on the disruptive economy.

AGINOV Team
#comewithus



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PATENTS

PHARMACEUTICAL COMPOSITION FOR TREATMENT OF SYSTEMIC INFECTIONS

APPLICATION

- Pharmaceutical industry
- Treatment of systemic fungal infections
- Chemical industry

PHARMACEUTICAL COMPOSITION FOR TREATMENT OF SYSTEMIC INFECTIONS



DESCRIPTION

These are two pharmaceutical compositions targeting the fungal thioredoxin reductase enzyme, which is useful in the treatment of human infections caused by microorganisms of the genus *Candida* spp., *Cryptococcus* spp. and *Paracoccidioides* spp. They are used in the formulation of a drug, additive, agent or formulation in the treatment of candidiasis, cryptococcosis and paracoccidioidomycosis.

IMPORTANT DETAILS

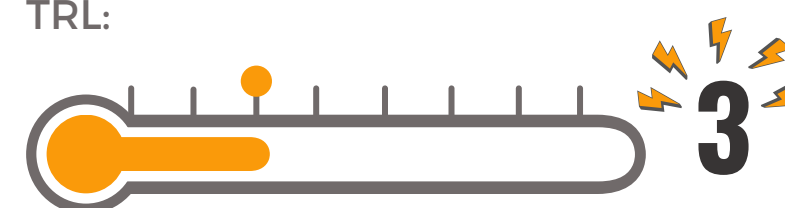
Deposit date:
05/03/2018

IPC rating:
Human Needs

Ownership:

- UEM
- UnB
- UNEMAT

TRL:



INVENTORS

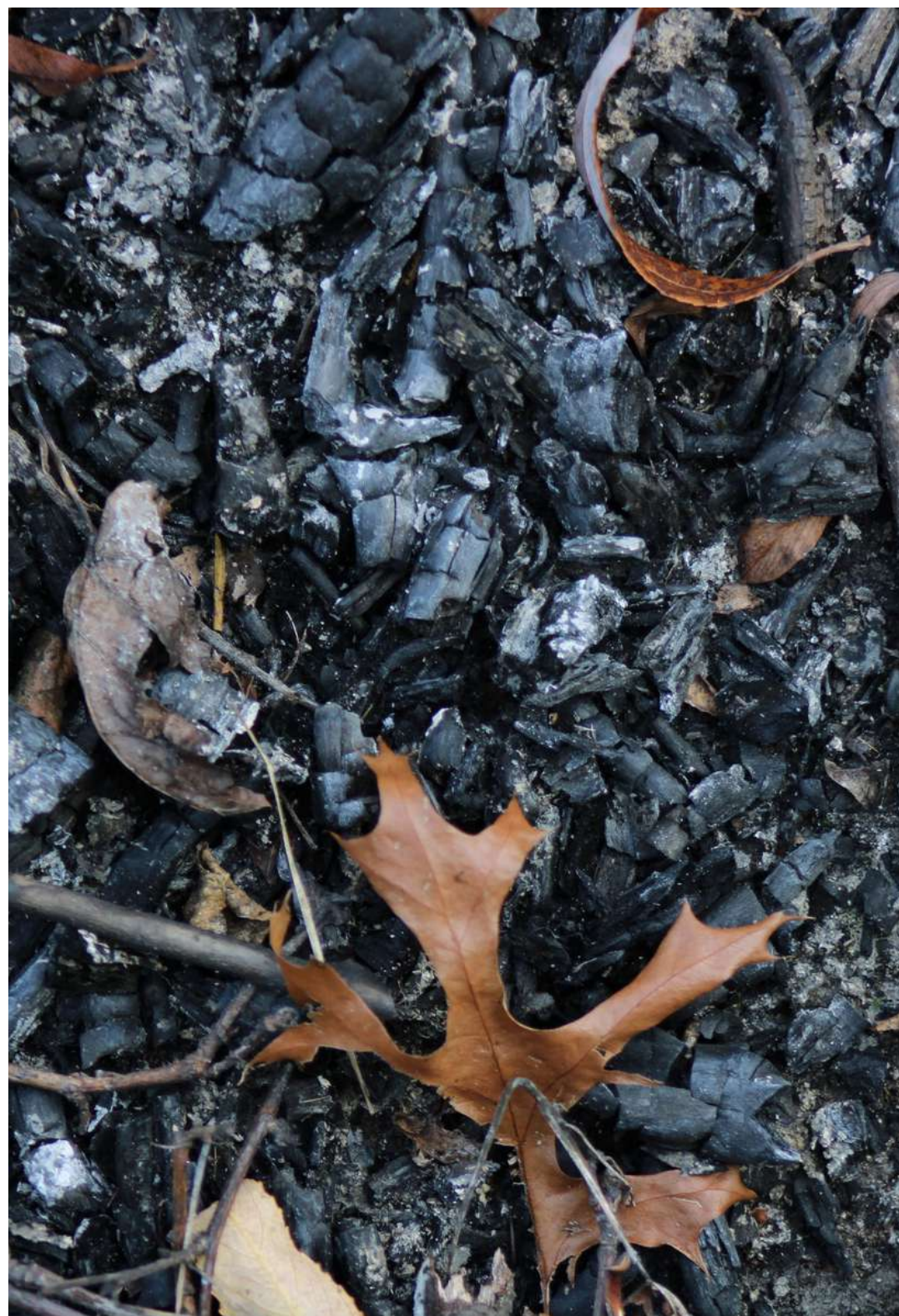
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PROCESS FOR OBTAINING CHARCOAL FROM BANANA TREE

APPLICATION

- Food industry, in preservatives
- Cosmetic industry

PROCESS FOR OBTAINING CHARCOAL FROM BANANA TREE



DESCRIPTION

Methodology for processing bananas, whether the fruit of any species of the Musaceae family, in order to obtain active charcoal. The process uses economically viable fruits, widely cultivated and consumed in the world. However, they have been wasted in large volumes in the harvest, post-harvest, transport, storage, commercialization and consumption stages. It aims to reduce the environmental impacts generated by the inappropriate disposal of the fruits, and associate their use in reuse alternatives, using bananas in maturation stages ranging from green to ripe.

IMPORTANT DETAILS

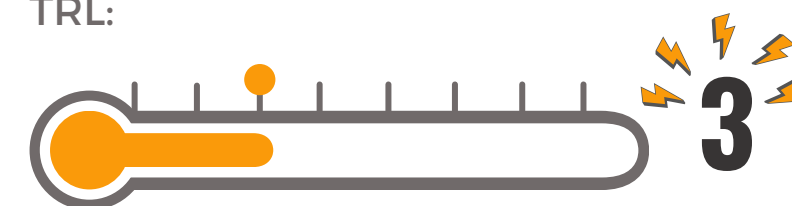
Deposit date:
03/03/2016

Situation:
Letter Patent

IPC rating:
Chemistry and Metallurgy

Ownership:
• UNEMAT

TRL:



INVENTORS

- Pércia Graczyk de Souza
- Tadeu Miranda de Queiroz
- José Wilson P. de Carvalho

ADSORBENT CHARCOALS FROM PEELS, PULP OF GREEN AND RIPE BANANAS



APPLICATION

- Treatment of drinking water, waste and/or industrial effluents
- Pharmaceutical industry in therapeutic preparations
- Activated charcoal-based cosmetics industry

ADSORBENT CHARCOALS FROM PEELS, PULP OF GREEN AND RIPE BANANAS



DESCRIPTION

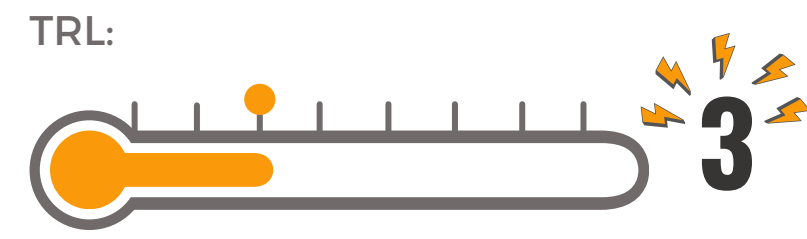
The present invention relates to adsorbent charcoals obtained from the peel and pulp of green and ripe bananas, whether the fruit of any species of the Musaceae family. The invention describes the properties of adsorbent charcoals, regarding characteristics such as moisture, ash, pH, conductivity, yield, iodine number and functional groups. Thus, the waste generated with banana fruits becomes practical in the generation of a product with applicability in the treatment of drinking water, wastewater and/or industrial effluents. It can be used by the pharmaceutical industry in therapeutic preparations and/or cosmetics based on activated charcoal.

IMPORTANT DETAILS

Deposit date:
06/14/2017

IPC rating:
Chemistry and Metallurgy

Ownership:
• UNEMAT



INVENTORS

- Pércia Graczyk de Souza
- Tadeu Miranda de Queiroz
- José Wilson P. de Carvalho

PROCESS FOR OBTAINING GARLIC PEEL FLOUR



APPLICATION

- Food industry
- Waste processing

PROCESS FOR OBTAINING GARLIC PEEL FLOUR



DESCRIPTION

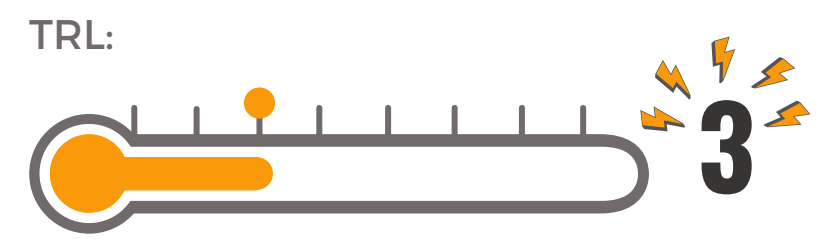
The present invention patent refers to a process for obtaining the flour product from the peel of garlic bulb and bulbil, intended for human consumption. This process includes sanitizing washing, drying in an oven with forced air circulation, and crushing in a blender. Thus, the establishment of this process is important for the food industry, as there is a reuse of waste that is discarded in the environment.

IMPORTANT DETAILS

Deposit date:
06/14/2017

IPC rating:
Human Needs

Ownership:
• UNEMAT



INVENTORS

- Mayara de Carvalho Aued
- Sumaya Ferreira Guedes
- Fabrício Barros Brum
- Raquel Aparecida Loss

PASTA WITH ADDITION OF GARLIC PEEL FLOUR



APPLICATION

- Food industry
- Waste process industries

PASTA WITH ADDITION OF GARLIC PEEL FLOUR



DESCRIPTION

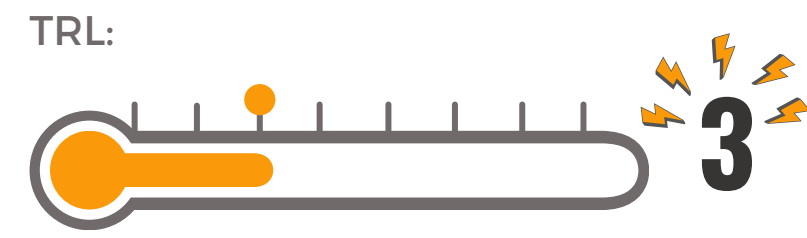
The present invention relates to obtaining a food paste added with garlic peel flour, intended for human consumption. Through the analyzes of the chemical composition, the reduction in the lipid content is highlighted when compared to the standard mass. The method for obtaining the dough involves mixing at different levels replacing wheat flour with garlic peel flour, adding fat, water and salt. Therefore, the use of garlic peel in the manufacture of flour for the production of frying dough is an alternative to avoid its disposal by industries, enrich various foods, and provide greater crispness in fried or baked products.

IMPORTANT DETAILS

Deposit date:
06/14/2017

IPC rating:
Human Needs

Ownership:
• UNEMAT



INVENTORS

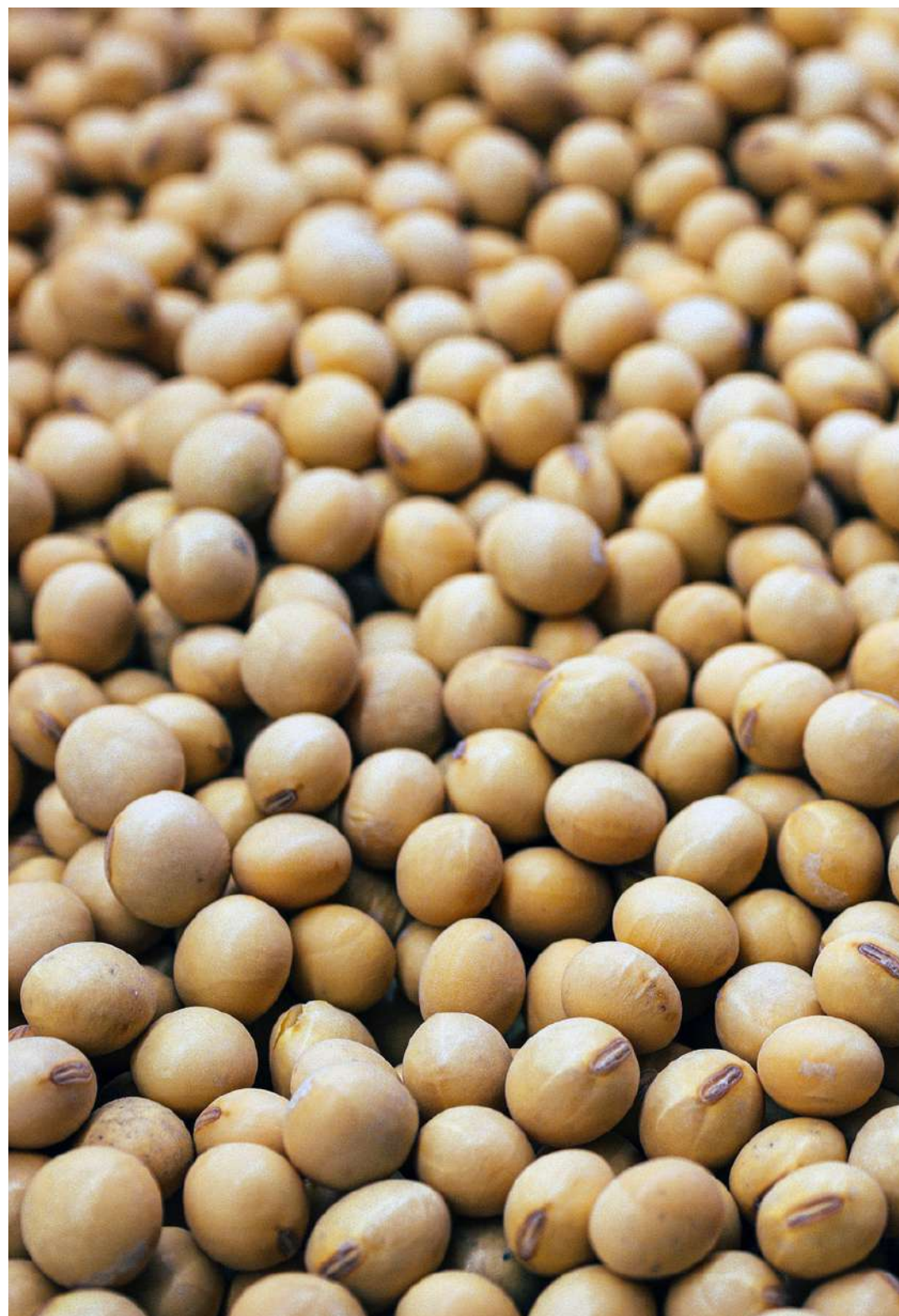
- Mayara de Carvalho Aued
- Sumaya Ferreira Guedes
- Fabrício Barros Brum
- Raquel Aparecida Loss

PROCESS FOR OBTAINING CELLULASES IN PRE-TREATED SOYBEAN HULLS

APPLICATION

- Pharmaceutical industry
- Food Industries
- Pulp processing

PROCESS FOR OBTAINING CELLULASES IN PRE-TREATED SOYBEAN HULLS



DESCRIPTION

The present invention describes a process for using soybean hulls, a lignocellulosic residue, from the agro-industrial sector, as a source of inducing carbon in a submerged fermentation process with a fungus of the genus *Penicillium* sp. for the production of cellulases for biotechnological purposes, such as the generation of second-generation ethanol or application in the food and textile sectors. The pre-treatments of lignocellulosic biomass make it possible to obtain fractions rich in cellulose and with greater inducing power in processes for obtaining cellulases through fermentation, making it promising in cost-effective terms for application in the industrial sector, when compared to standard procedures used, such as commercial cellulose.

IMPORTANT DETAILS

Deposit date:
09/11/2019

IPC rating:
Human Needs

Ownership:

- ITP
- Unit
- UFS
- UNEMAT

TRL:



INVENTORS

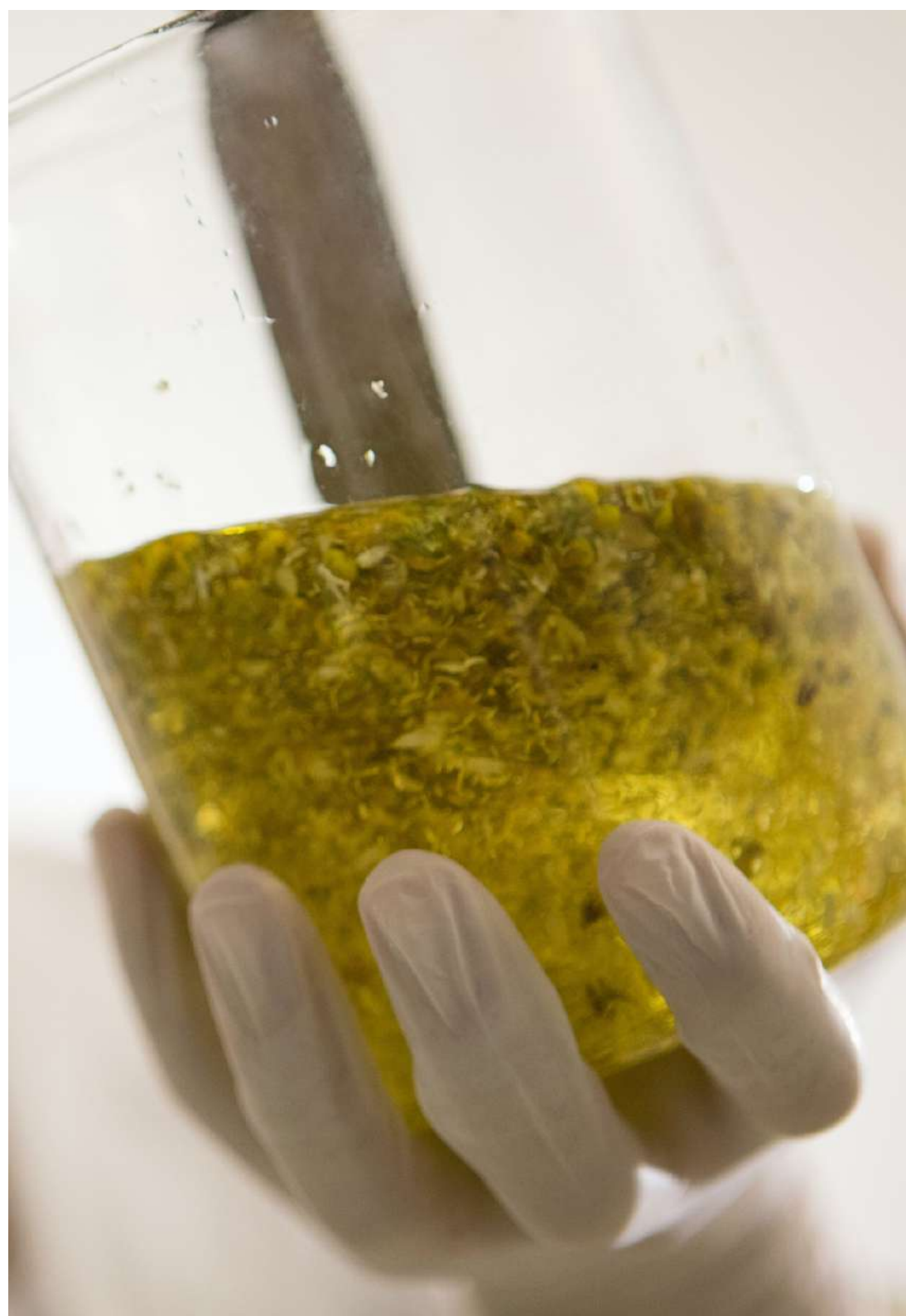
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- Luana Alves da Silva
- Maria de L. T. M. Polizeli
- Daniel Pereira da Silva
- Denise Santos Ruzene
- Maurecilne L. S. Carvalho
- Ilio Fealho de Carvalho

PANTANAL'S PROPOLIS ALCOHOLIC EXTRACT

APPLICATION

- Pharmaceutical industry, production of medicines with antibacterial activity
- Dental industry, periodontal disease treatment and caries prevention
- Cosmetic industry with antiseptic properties
- Waste processing

PANTANAL'S PROPOLIS ALCOHOLIC EXTRACT



DESCRIPTION

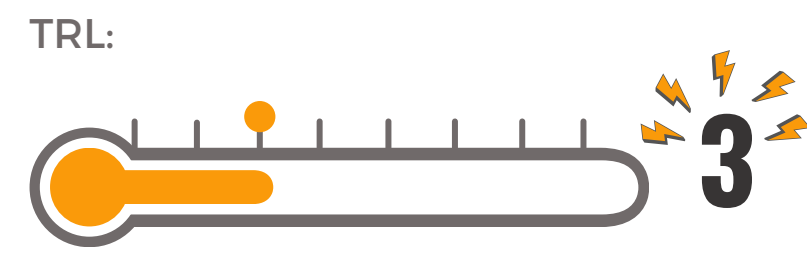
The present invention patent deals with the extraction of crude propolis from the Pantanal in 50% ethanol, associated with its biological activity against bacteria with an average quantification of 1.42% of flavonoids and 0.9% of phenolics. The alcoholic extract in question comprises an alternative to the frequent use of allopathic antibiotics for intestinal and cutaneous bacterial infections, proposing to solve the problem facing the selection of resistant bacteria, which results in a decrease in the efficiency of the medicines currently used.

IMPORTANT DETAILS

Deposit date:
12/03/2014

IPC rating:
Human Needs

Ownership:
• UNEMAT



INVENTORS

- Carla Gabiati
- Elaine Maria Loureiro
- Rute Alves Pinto
- Carla Simone G. A. Pina

CLIPBOARD FOR UNDERWATER WRITING



APPLICATION

- Secure and comfortable writing even under water or heavy rain
- Dive notes and planning
- Mapping of shipwrecks
- Aquatic surveys

CLIPBOARD FOR UNDERWATER WRITING



DESCRIPTION

The present patent consists of a clipboard adapted for taking notes under water or in adverse weather conditions, in a safe and practical way. The patent in question focuses on a common clipboard with water-adapted sheet attachment mechanisms, user attachment devices, writing device and special sheets, printed or unprinted, water resistant.

IMPORTANT DETAILS

Deposit date:
11/22/2013

IPC rating:
Processing Operations,
Transport

Ownership:
• UNEMAT



INVENTORS

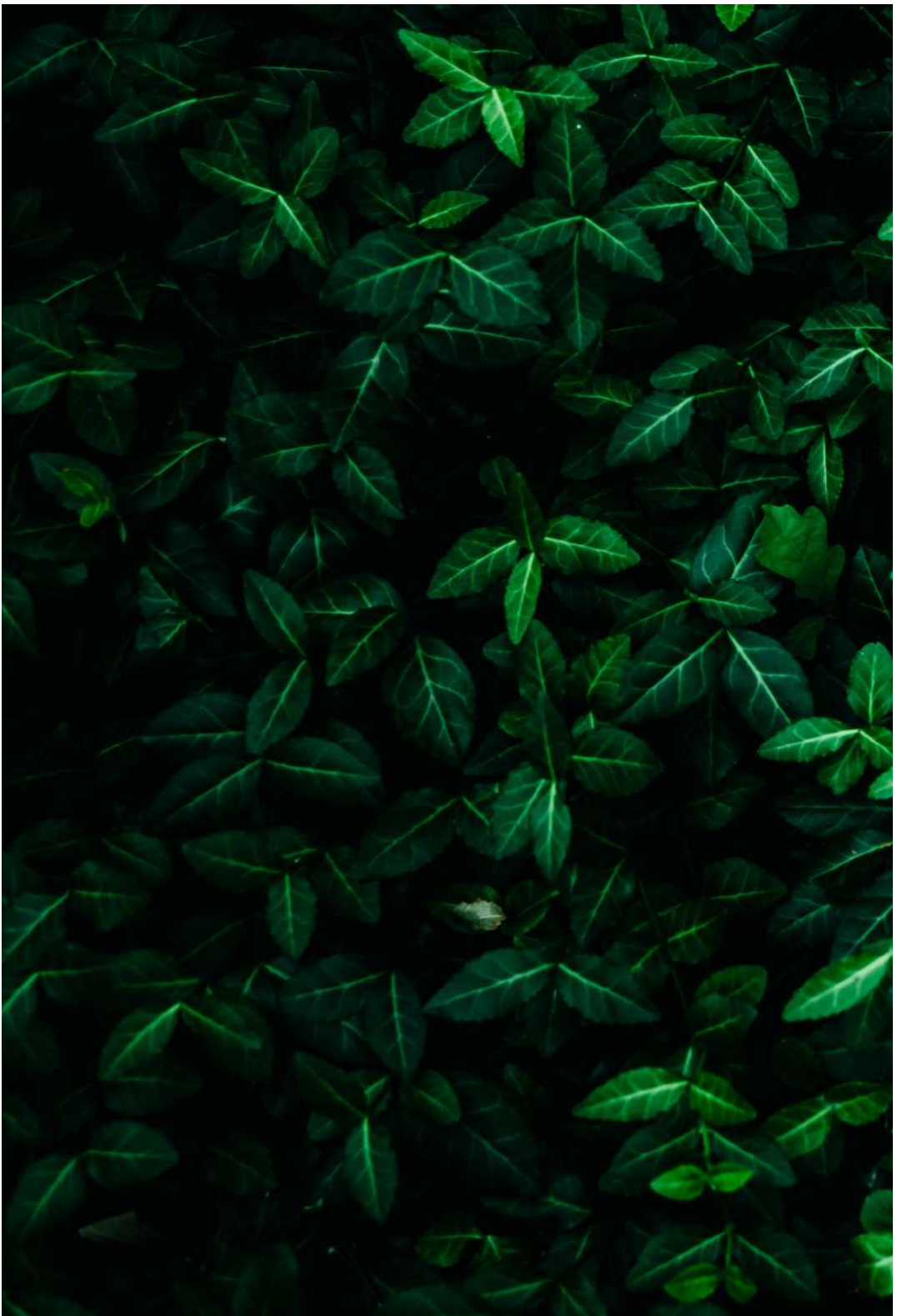
- Eduardo Bessa P. da Silva

PORTABLE LEAF AREA INDEX METER

APPLICATION

- Assists in the application of agricultural pesticides
- Environmental survey
- Carbon credit calculation
- Biomass estimate
- Plant development and productivity

PORTABLE LEAF AREA INDEX METER



DESCRIPTION

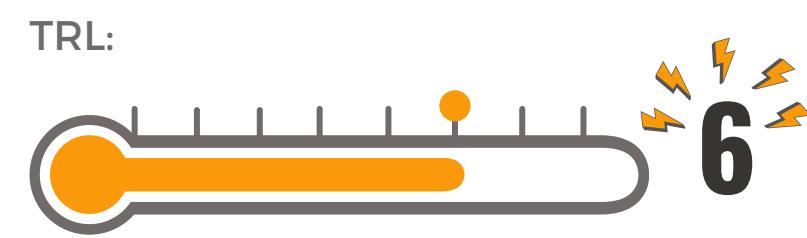
The leaf area index is a dimensionless quantity that characterizes the canopy of plants. It is defined as the one-sided green leaf area per unit soil surface area. The invention relates to the indirect and non-destructive measurement of the leaf area index (LAI) through the instantaneous detection of the transmissivity of the photosynthetically active radiation (PAR) of the canopy, with simultaneous measurements of incident and transmitted PAR. It is a linear probe for measuring transmitted PAR, an incident PAR sensor and transmitting measurements. Employing a dedicated wireless connection, and a control unit, receiving data from both incident and transmitted PAR measurement modules, LAI calculation, management, display, storage of LAI measurements and intermediate variables.

IMPORTANT DETAILS

Deposit date:
07/21/2021

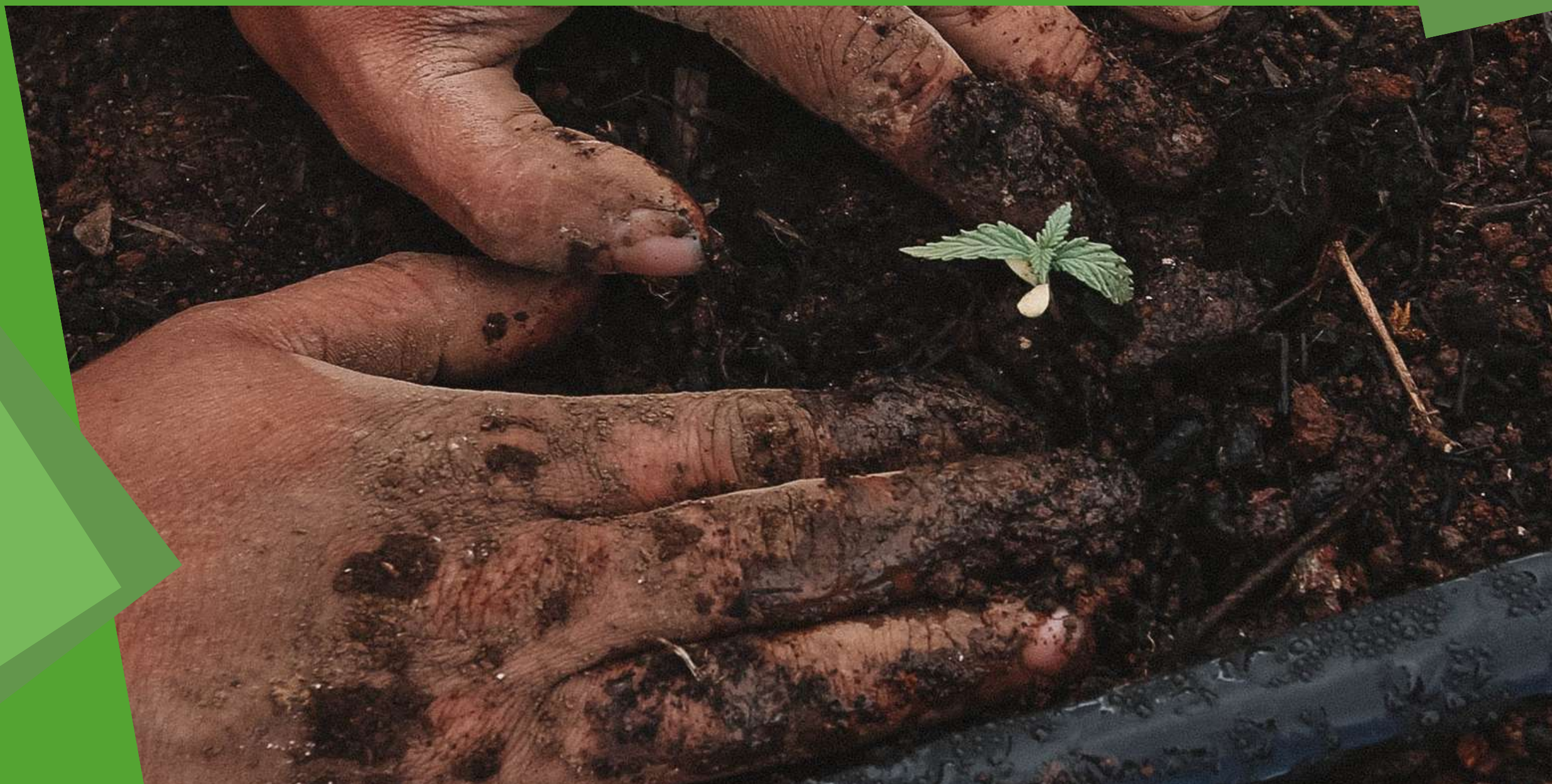
IPC rating:
Investigation or analysis of materials by specific methods

Ownership:
• UFMT
• UNEMAT
• IFMT



INVENTORS

- Marcelo Sacardi Biudes
- Elio Santos Almeida Júnior
- Armando da Silva Filho
- Nadja Gomes Machado



CULTIVARS

SOLAR

Passiflora edulis Sims- *Maracujá*



CHARACTERISTICS

- Alternative to the specialty fruit market
- Juice, ice cream and sweets industry
- Highly vigorous root system
- Greater tolerance to pathogens and fruit longevity

SOLAR *Passiflora edulis Sims-Maracujá*



DESCRIPTION

The present passion fruit cultivar *Passiflora edulis Sims - Solar* was obtained at Unemat, Campus of Tangará da Serra, resulting from a mass selection process of a population of wild accessions of *Passiflora edulis Sims* with different origins. Aiming mainly at increasing productivity and fruit size, in addition to providing resistance to major diseases. It is suitable for cultivation in clayey and well-drained soils.

DIFFERENTIAL

Alternative for the specialty fruit market, aimed at the juice, ice cream, sweets and fresh consumption industries. Its beautiful white flowers and dense branching demonstrate its ornamental potential for landscaping large areas. This cultivar stands out for presenting uniform fruits, with smooth and shiny bark, in addition to a highly vigorous root system. Thus ensuring greater tolerance to pathogens and fruit longevity.

IMPORTANT DETAILS

Registration date:
12/26/2019

Situation:
Registered

Species and Group:
Passiflora edulis Sims
Fruit trees

Ownership:

- FAPEMAT
- UNEMAT
- FELTRIN

Maintainer:

- FELTRIN

BREEDERS

- Willian Krause
- Leonarda Grillo Neves,
- Petterson Baptista da Luz,
- Celice Alexandre Silva,
- Leandro Rafael Fachi,
- Dejânia Vieira de Araújo

EXCLUSIVELY LICENSED

- FELTRIN SEMENTES LTDA

UNEMAT TEREZA

Maracujá (*Passiflora sp.*)

CHARACTERISTICS

- Excellent for use as a rootstock
- Great grip and no loss of productivity
- Compatibility with commercial passion fruit treetop cultivar

UNEMAT TEREZA Maracujá (*Passiflora sp.*)



DESCRIPTION

The passion fruit cultivar *Passiflora* - UNEMAT TEREZA emerged through an interspecific cross between *Passiflora edulis* Sims and *Passiflora quadrangulares*. This achievement resulted in a hybrid with high tolerance to collar rot, which does not produce flowers. Thus, passion fruit contributes to the need for cultivars resistant to collar rot. The use of this hybrid as a rootstock makes the cultivation viable, as in addition to being tolerant to the disease, it presents excellent attachment with the commercial cultivar, with a rate above 68%.

DIFFERENTIAL

Because it is a hybrid with the *Passiflora edulis* Sims species, the “UNEMAT TEREZA” cultivar, it is excellent for use as a rootstock, for tolerance to collar rot. It has excellent attachment without loss of productivity, in addition to excellent compatibility with the commercial passion fruit treetop cultivar.

IMPORTANT DETAILS

Registration date:
12/23/2021

Situation:
Registered

Species and Group:
Passiflora edulis e *Passiflora quadrangularis* L

Ownership:

- FAPEMAT
- UNEMAT

BREEDERS

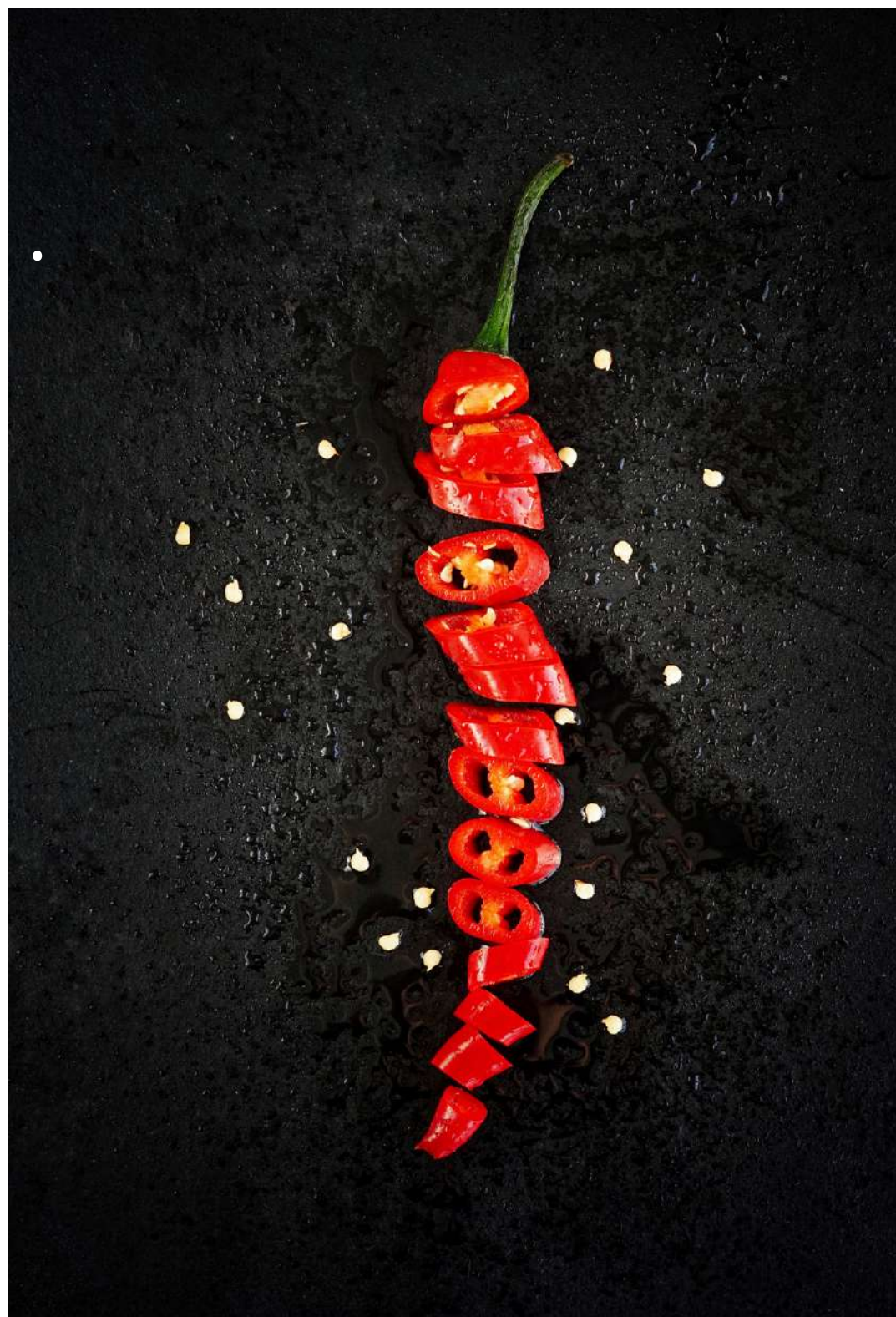
- Leonarda Grillo Neves
- Antonio Marcos Chimello
- Sandra da Costa Preisigke
- Thalita Neves Marostega
- Kelly Lana Araújo
- Thiago Alexandre S. Gilio
- Willian Krause
- Celice Alexandre Silva
- Marcos Antonio A. Barelli
- Juliana Avelar de Carvalho

UNEMAT IMPLACÁVEL

CHARACTERISTICS

- Increased fruit production compared to other cultivars
- Spicy taste

UNEMAT IMPLACÁVEL



DESCRIPTION

The hybrid F1 44 x 52 named UNEMAT Implacável was obtained from the parents UNEMAT 44 and UNEMAT 52 belonging to the germplasm bank of the Plant Genetic Improvement laboratory at the State University of Mato Grosso, in Cáceres. The hybrid is vigorous with a semi-perennial cycle, with harvest beginning 100 days after transplanting the seedlings. The color of the fruit before ripening is green and after ripening it is red. The shape of the fruits is elongated with an average size of 2.47 cm in length and 0.68 cm in width.

DIFFERENTIAL

With its spicy flavor, the main differentiator of this hybrid is its antioxidant content. In addition to the increase in fruit production, compared to the cultivars available on the market.

IMPORTANT DETAILS

Registration date:
08/20/2021

Situation:
Registered

Species and Group:
Capsicum frutescens L

Ownership:
• UNEMAT

BREEDERS

- Leonarda Grillo Neves
- Kelly Lana Araújo
- Thiago Alexandre S. Gilio
- Ana Flavia Silva Amorim
- Isabela Vera dos Anjos
- Jeferson Gonçalves de Jesus
- Antonio Marcos Chimello
- Sandra da Costa Preisigke
- Marcos Antonio A. Barelli
- Willian Krause
- Celice Alexandre Silva
- Janaina Barros de Jesus
- Jessé Pereira Kreitlow
- Luiz Henrique A. de Souza
- Rosana Rodrigues
- Santino Seabra Júnior
- Alan Chrislevr Maracahipes
- Cláudia Pombo Sudré

UNEMAT MALAGUETA PANTANEIRA

CHARACTERISTICS

- Large size hybrid
- Resistance to anthracnose
- Longer shelf life
- High fruit production compared to other cultivars

UNEMAT MALAGUETA PANTANEIRA



DESCRIPTION

The hybrid F1 115x17 was obtained from the parents UNEMAT 115 and UNEMAT 17, belonging to the Plant Genetic Improvement Laboratory of the State University of Mato Grosso, in Cáceres. The hybrid is vigorous, with a relatively short cycle of 96 days, with elongated fruits. They are green in color before ripening and orange-red in color after ripening. The fruits are 4.2 cm long and 1.3 cm wide, in addition to having a spicy flavor.

DIFFERENTIAL

The main differential of this hybrid is the size of the fruit and resistance to post-harvest anthracnose, increasing shelf life. As well as high fruit production compared to existing cultivars on the market.

IMPORTANT DETAILS

Registration date:
08/20/2021

Situation:
Registered

Species and Group:
Capsicum frutescens L

Ownership:
• UNEMAT

BREEDERS

- Leonarda Grillo Neves
- Kelly Lana Araújo
- Thiago Alexandre S. Gilio
- Ana Flavia Silva Amorim
- Isabela Vera dos Anjos
- Jeferson Gonçalves de Jesus
- Antonio Marcos Chimello
- Sandra da Costa Preisigke
- Marcos Antonio A. Barelli
- Willian Krause
- Celice Alexandre Silva
- Janaina Barros de Jesus
- Jessé Pereira Kreitlow
- Luiz Henrique A. de Souza
- Rosana Rodrigues
- Santino Seabra Júnior
- Álan Chrislevr Maracahipes
- Cláudia Pombo Sudré

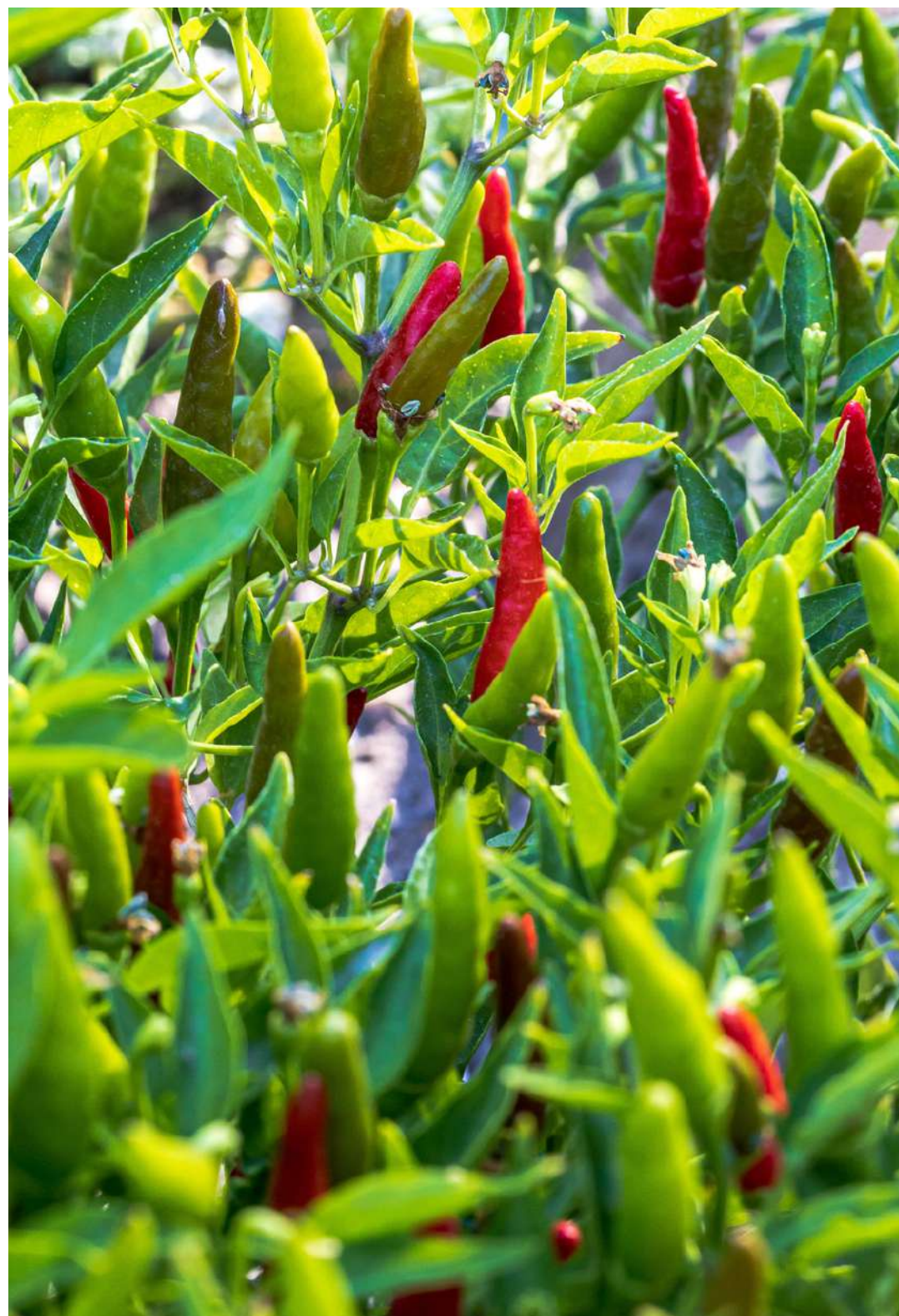
UNEMAT PAVORO



CHARACTERISTICS

- Spicy taste
- Antioxidant content
- High Production

UNEMAT PAVORO



DESCRIPTION

The hybrid F1 44 x 115, called UNEMAT Pavoro, was obtained from the cross between the parents UNEMAT 44 and UNEMAT 115, which are part of the germplasm bank of the Laboratory of Plant Genetic Improvement at the State University of Mato Grosso, in Cáceres. The hybrid is vigorous, has a semi-perennial cycle and starts harvesting 96 days after transplanting the seedlings. The color of the fruit is light green before ripening, turning red when ripe. The fruits have an elongated shape, with an average size of 3.5 cm in length and 1.1 cm in width, standing out in this aspect in relation to other cultivars.

DIFFERENTIAL

With its spicy flavor, the main differentiator of this hybrid is its antioxidant content and production.

IMPORTANT DETAILS

Registration date:
08/20/2021

Situation:
Registered

Species and Group:
Capsicum frutescens L

Ownership:
• UNEMAT

BREEDERS

- Leonarda Grillo Neves
- Kelly Lana Araújo
- Thiago Alexandre S. Gilio
- Ana Flavia Silva Amorim
- Isabela Vera dos Anjos
- Jeferson Gonçalves de Jesus
- Antonio Marcos Chimello
- Sandra da Costa Preisigke
- Marcos Antonio A. Barelli
- Willian Krause
- Celice Alexandre Silva
- Janaina Barros de Jesus
- Jessé Pereira Kreitlow
- Luiz Henrique A. de Souza
- Rosana Rodrigues
- Santino Seabra Júnior
- Álan Chrislevr Maracahipes
- Cláudia Pombo Sudré

UNEMAT PEDRO



CHARACTERISTICS

- Resistance to anthracnose
- Longer fruit longevity
- High antioxidant content
- High productivity

UNEMAT PEDRO



DESCRIPTION

The UNEMAT 44 lineage has a semi-perennial cycle, with harvest beginning 96 days after transplanting the seedlings. The color of the fruit before ripening is light green, and after ripening red. The shape of the fruits is elongated, with an average size of 3.09 cm in length and 0.89 cm in width, standing out at this point from the other cultivars.

DIFFERENTIAL

With its spicy flavor, the main differential of this lineage is its resistance to post-harvest anthracnose, increasing its shelf life. In addition, the UNEMAT Pedro cultivar has a high antioxidant content and high productivity when compared to the commercial cultivars used as a control. In addition, it contains a high content of antioxidants such as Betacarotene and Vitamin C.

IMPORTANT DETAILS

Registration date:
08/20/2021

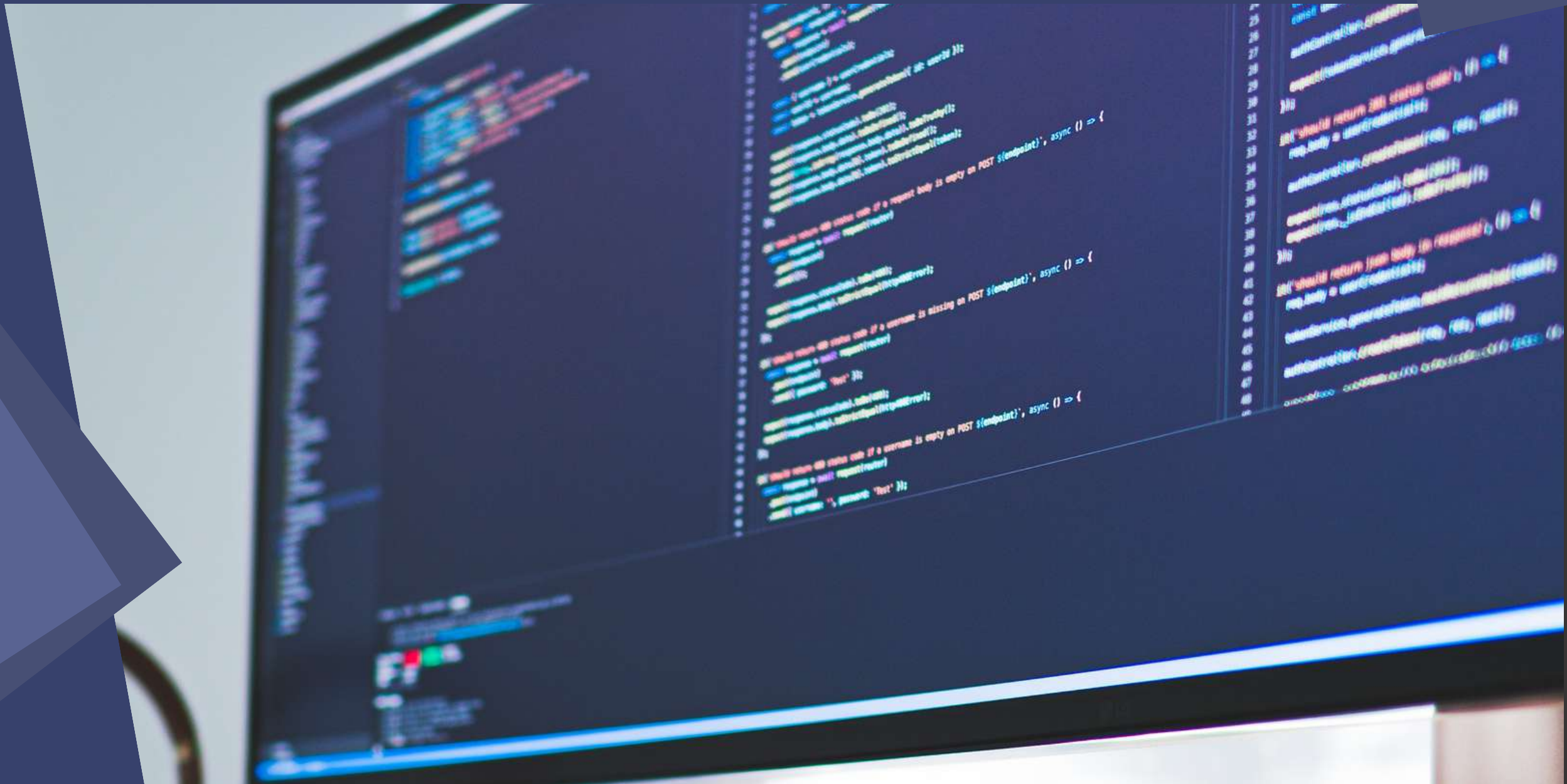
Situation:
Registered

Species and Group:
Capsicum frutescens L

Ownership:
• UNEMAT

BREEDERS

- Leonarda Grillo Neves
- Kelly Lana Araújo
- Thiago Alexandre S. Gilio
- Ana Flavia Silva Amorim
- Isabela Vera dos Anjos
- Jeferson Gonçalves de Jesus
- Antonio Marcos Chimello
- Sandra da Costa Preisigke
- Marcos Antonio A. Barelli
- Willian Krause
- Celice Alexandre Silva
- Janaina Barros de Jesus
- Jessé Pereira Kreitlow
- Luiz Henrique A. de Souza
- Rosana Rodrigues
- Santino Seabra Júnior
- Alan Chrislevr Maracahipes
- Cláudia Pombo Sudré



COMPUTER PROGRAMS

EVIDENCES 3D-API



CHARACTERISTICS

- Stores objects captured by mobile devices
- Generates 3D images from captured objects
- Storage in SQL

EVIDENCES 3D-API



DESCRIPTION

This project aims to develop a system capable of creating and storing models of three-dimensional objects with high fidelity, which can be viewed on computers and mobile devices, and searched in a database according to their characteristics. To achieve this, we intend to implement an image capture system with support for cell phone cameras and conventional tablets, capable of generating a three-dimensional mesh for storing, consulting and viewing the created models.

APPLICATION

- Object capture and storage system using smartphone and tablet cameras to generate three-dimensional images, which can be viewed with high fidelity in details in a responsive application for browsers and mobile devices.
- Offer adoption to the Public Security Secretariat in the search for lost objects.

IMPORTANT DETAILS

Deposit date:
04/14/2022

Language:
Python

Situation:
Certified registration

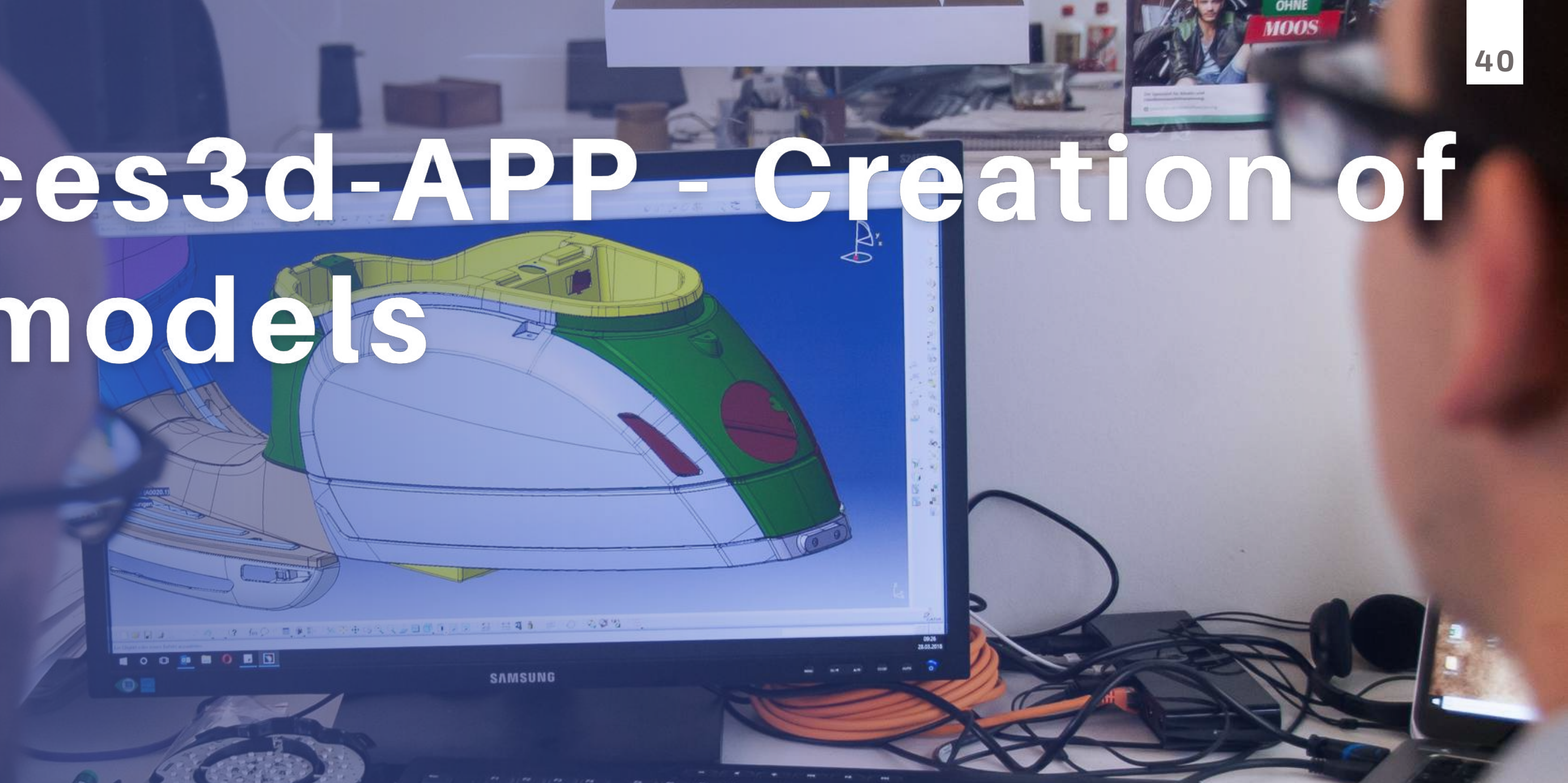
Ownership:

- UNEMAT
- SESP-MT
- FAPEMAT
- UPF

AUTHORS

- Mateus Trombetta
- Rafael Rieder
- João Pedro Assunção Campos
- Ivan Augusto Alves da Rocha
- Tales Nereu Bogoni
- Nicky Jhames Barbosa Souza
- Lucas Mezzomo Fachineto
- Érico Fernando de O. Martins

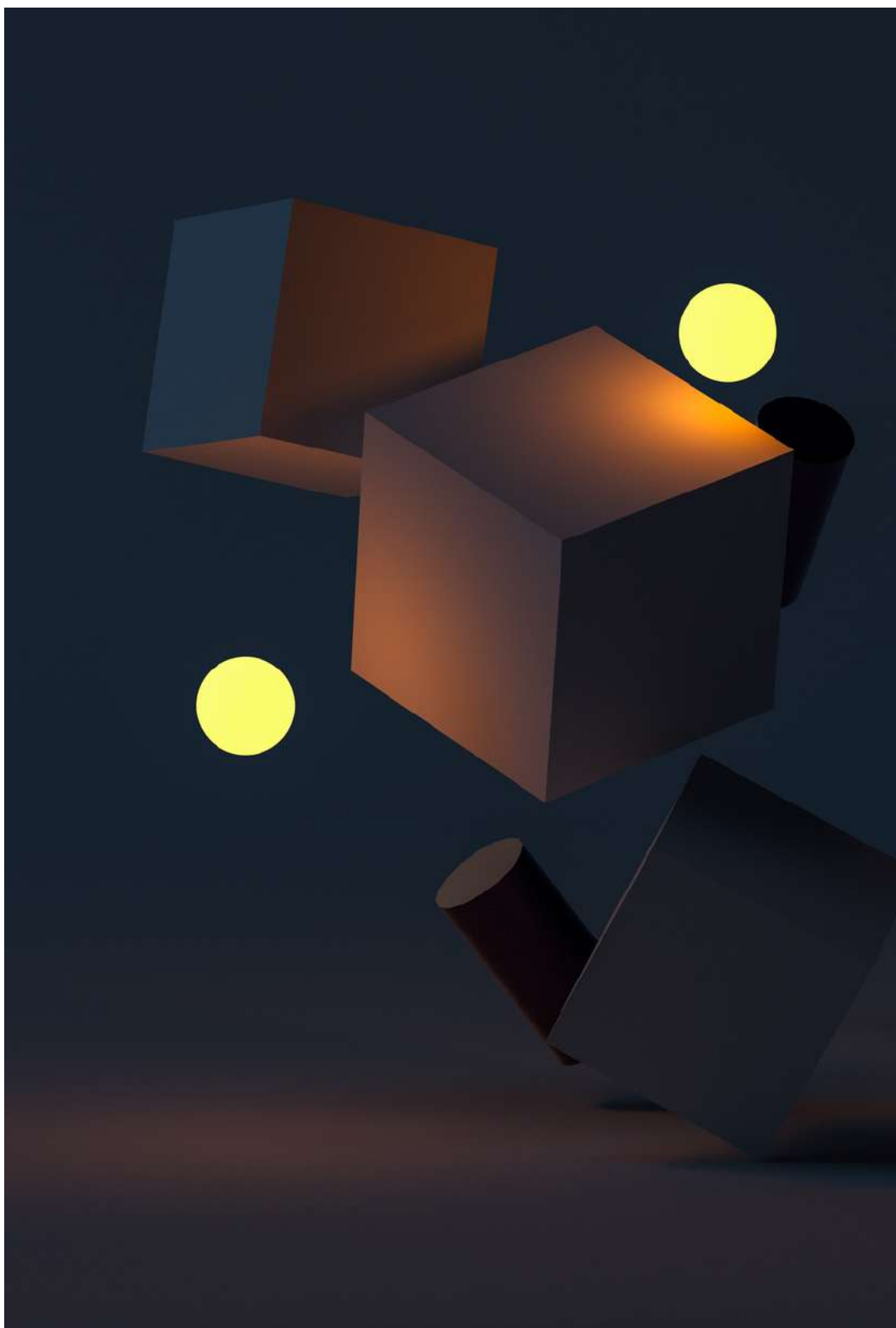
Evidences3d-APP - Creation of digital models



CHARACTERISTICS

- Generates 3D images from captured objects
- Registration and obtaining images
- Storage in SQL

Evidences3d-APP - Creation of digital models



DESCRIPTION

System capable of registering, creating and storing models of three-dimensional objects with high fidelity, which can be viewed on computers and mobile devices, searched in a database according to their characteristics. The Evidences 3D-API system serves as the basis for this system, which can be integrated with other programs.

APPLICATION

- System for registering and obtaining three-dimensional images, which can be viewed with high fidelity in details in a responsive application for browsers and mobile devices.
- Offer adoption to the Public Security Department in the search for lost objects.

IMPORTANT DETAILS

Deposit date:
04/12/2022

Situation:
Certified registration

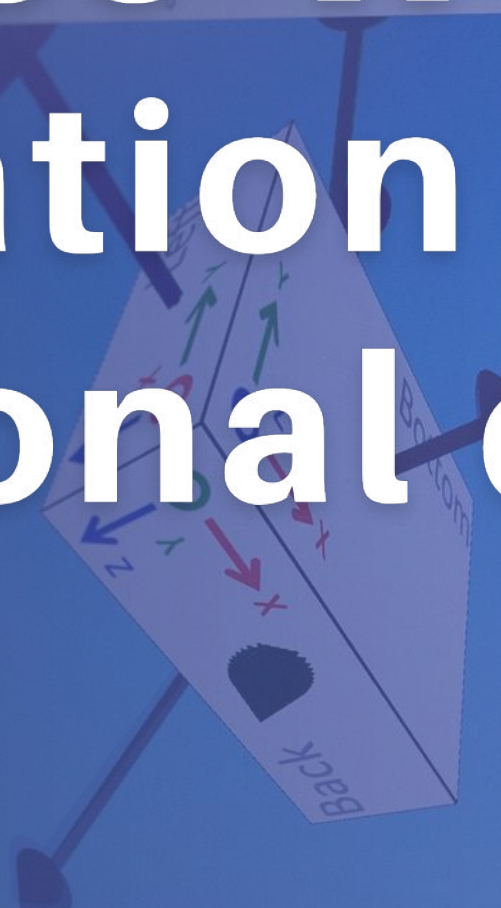
Ownership:

- UNEMAT
- SESP-MT
- FAPEMAT
- UPF

AUTHORS

- Mateus Trombetta
- Rafael Rieder
- João Pedro Assunção Campos
- Ivan Augusto Alves da Rocha
- Tales Nereu Bogoni
- Nicky Jhames Barbosa Souza
- Lucas Mezzomo Fachinetto

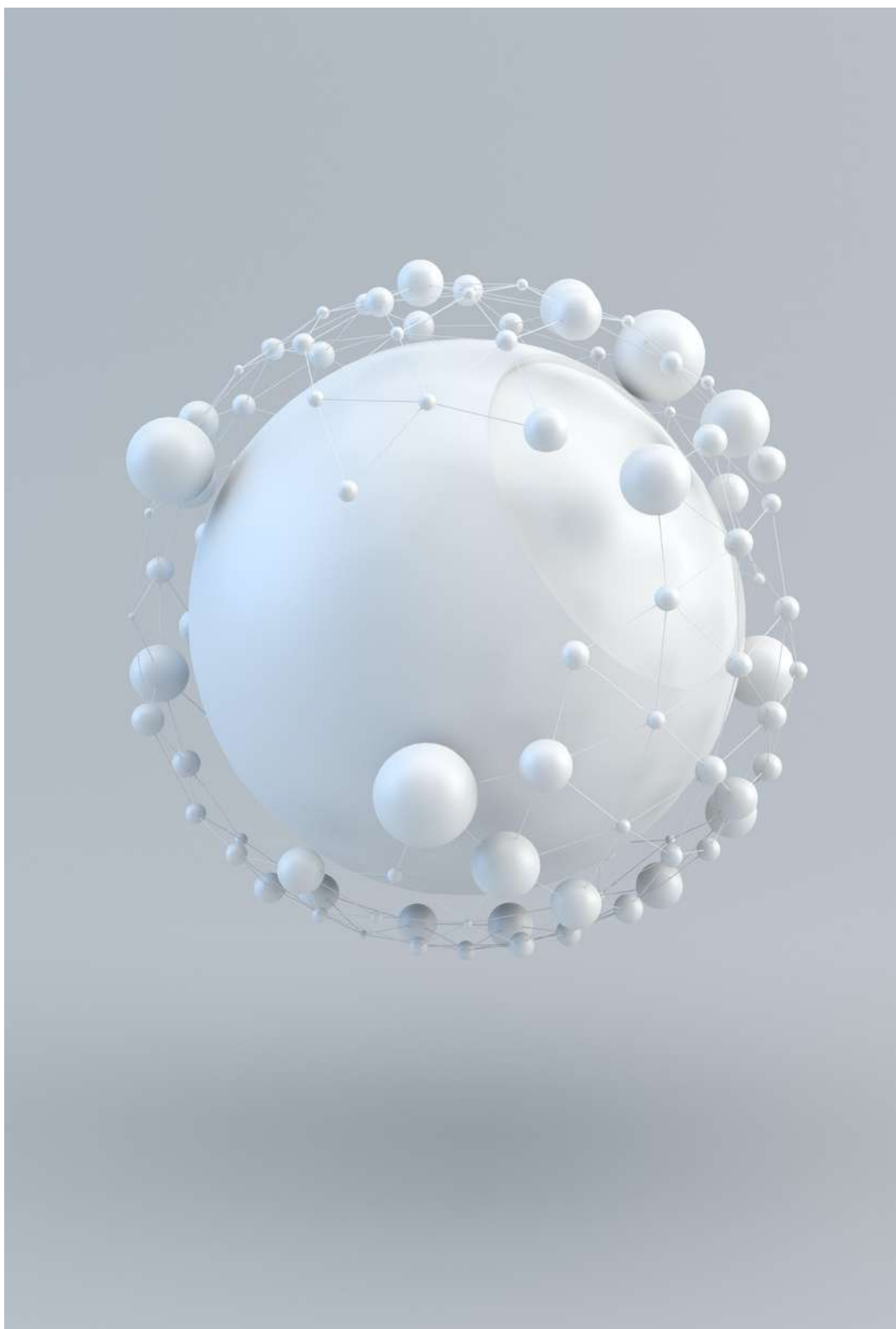
Evidences-WEB - Query and visualization of three-dimensional data



CHARACTERISTICS

- Generates 3D images from captured objects
- Data visualization and query
- Storage in SQL

Evidences-WEB - Query and visualization of three-dimensional data



DESCRIPTION

The system is capable of visualizing and querying data from three-dimensional object models with high fidelity, which can be viewed on computers and mobile devices, and searched in a database according to their characteristics. The Evidences 3D-API system serves as the basis for this system, which can be integrated with other programs.

APPLICATION

- A system for querying and visualizing three-dimensional data in high fidelity in detail, in a responsive application for browsers and mobile devices.
- Offer adoption by the Public Security Secretariat in the search for lost objects.

IMPORTANT DETAILS

Deposit date:
04/12/2022

Language:
Java Script; PHP

Situation:
Certified registration

Ownership:

- UNEMAT
- SESP-MT
- FAPEMAT
- UPF

AUTHORS

- Mateus Trombetta
- Rafael Rieder
- João Pedro Assunção Campos
- Ivan Augusto Alves da Rocha
- Tales Nereu Bogoni
- Nicky Jhames Barbosa Souza
- Lucas Mezzomo Fachineto

O JURI



CHARACTERISTICS

- Automation of jury registration, list and draws
- Generate registered jury documents
- Serves any District Court of Justice

O JURI



DESCRIPTION

The program developed automates the manual tasks performed by the Court of Justice districts, where jury sessions take place. The system controls the registration of jurors, allowing additions, changes and removals to the database. Furthermore, it automates the generation of annual and semi-annual lists, as well as the production of documents necessary for summons, and during jury sessions, it draws jurors and allows the generation of all documents used during the sessions, such as statements and certificates.

APPLICATION

- The system automates the entire process of controlling jury registration, lists and draws, in addition to issuing documents according to the registered jury session.
- With the potential to be implemented in all District Courts of Justice throughout Brazil.

IMPORTANT DETAILS

Deposit date:
04/12/2022

Language:
Java Script; Python; CSS

Situation:
Certified registration

Ownership:
• UNEMAT

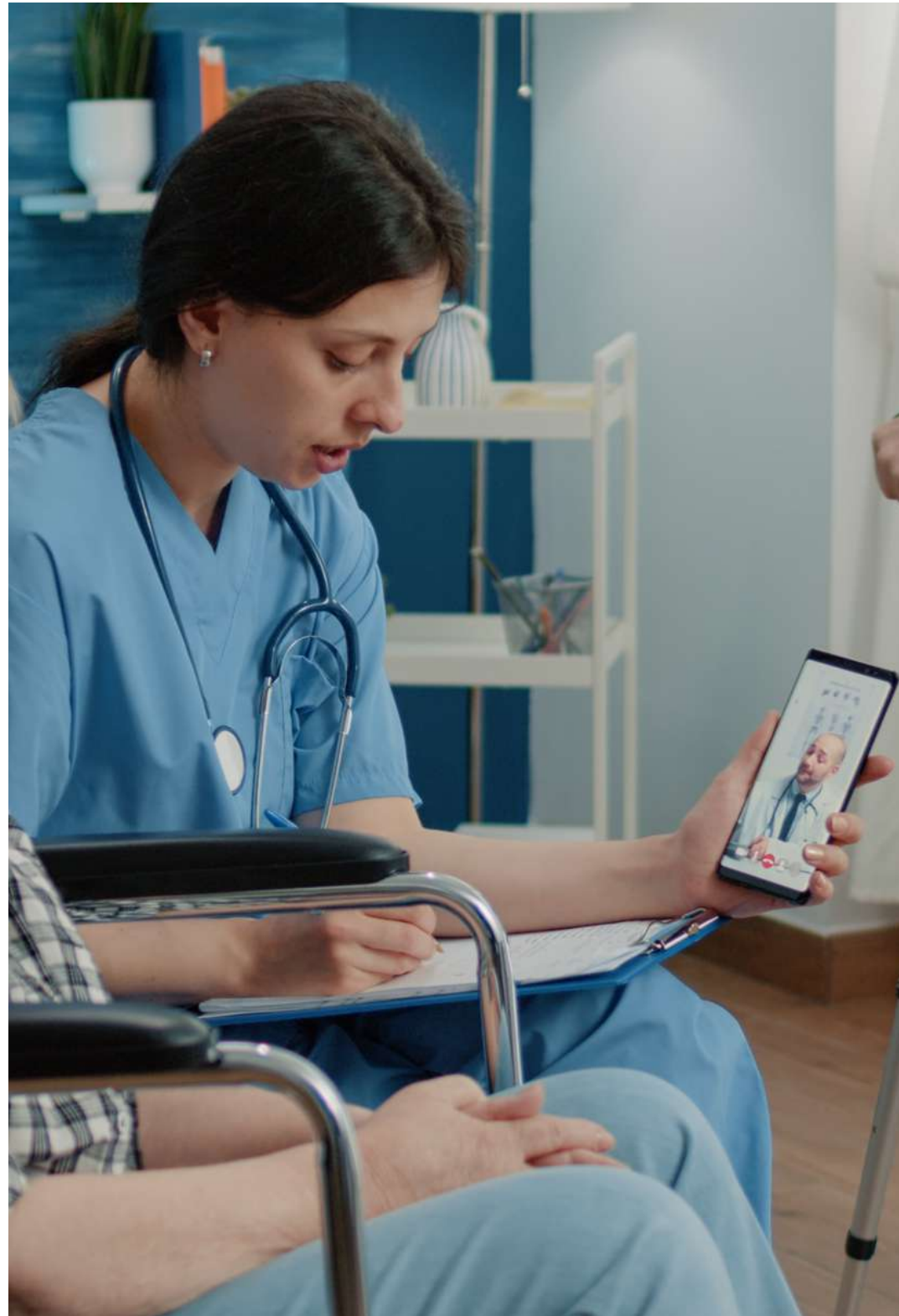
AUTHOR

- Benevid Felix da Silva

VOZATIVA - Mobile Application of Augmentative and Alternative Communication for Aphasic Public for use in rehabilitation units

CHARACTERISTICS

- Connectivity with web image bank
- Artificial intelligence for image classification
- Application in the medical industry
- Multi-User Application



DESCRIPTION

The program helps people with aphasia to carry out the therapeutic process in rehabilitation units. It is a multi-user application to assist in the therapeutic process of aphasic patients in rehabilitation centers, hospitals and clinics. Can also be used in rehabilitation centers, hospitals and medical clinics.

APPLICATION

- Connectivity with web image bank.
- Artificial intelligence for classifying images to be used by the user, according to their personal preferences.
- Multi-User Application.

IMPORTANT DETAILS

Deposit date:
02/16/2021

Language:
Java Script; Python

Situation:
Certified registration

- Ownership:
- UNEMAT
 - FAPEMAT

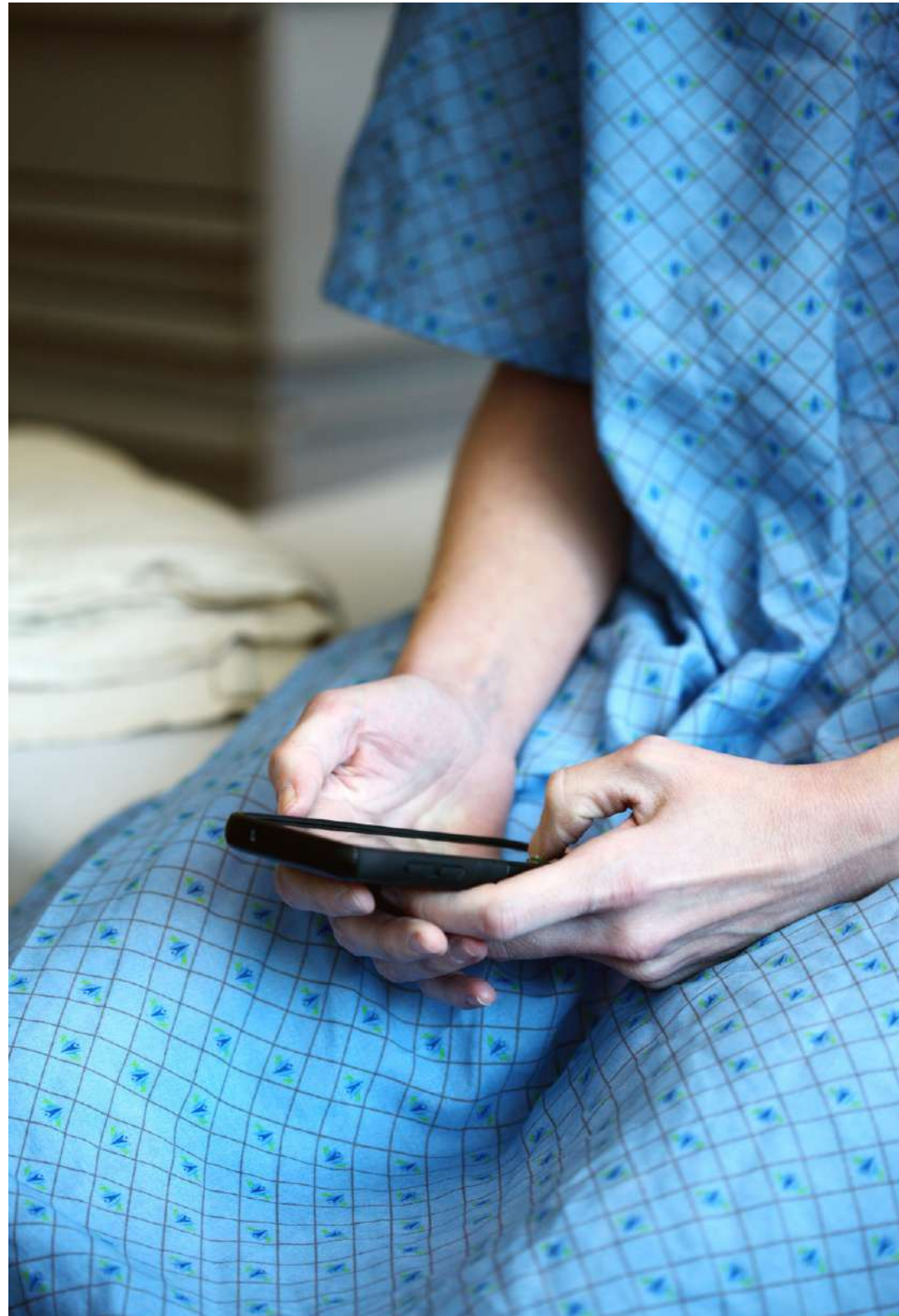
AUTHORS

- Alexandre Berndt
- Gabrielly Héber A. da Cruz
- Bruno de Oliveira Silva

VOZATIVAI - Augmentative Communication Context-Aware Mobile Application alternative for aphasic audience

CHARACTERISTICS

- **Connectivity with web image bank**
- **Artificial intelligence for image classification**
- **Application in the medical industry**
- **Single-user application**



DESCRIPTION

The program helps people with aphasia, who have difficulty expressing their needs and relating to other people, due to restrictions in communication and expression. The VozAtivai is an application for individual use for augmentative communication for aphasic users on mobile devices.

APPLICATION

- Connectivity with web image bank.
- Artificial intelligence for classifying images to be used by the user, according to their personal preferences and location.
- GPS location, to identify the type of local the user is in.
- Single-user application.

IMPORTANT DETAILS

Deposit date:
02/16/2022

Language:
Java Script; Python

Situation:
Certified registration

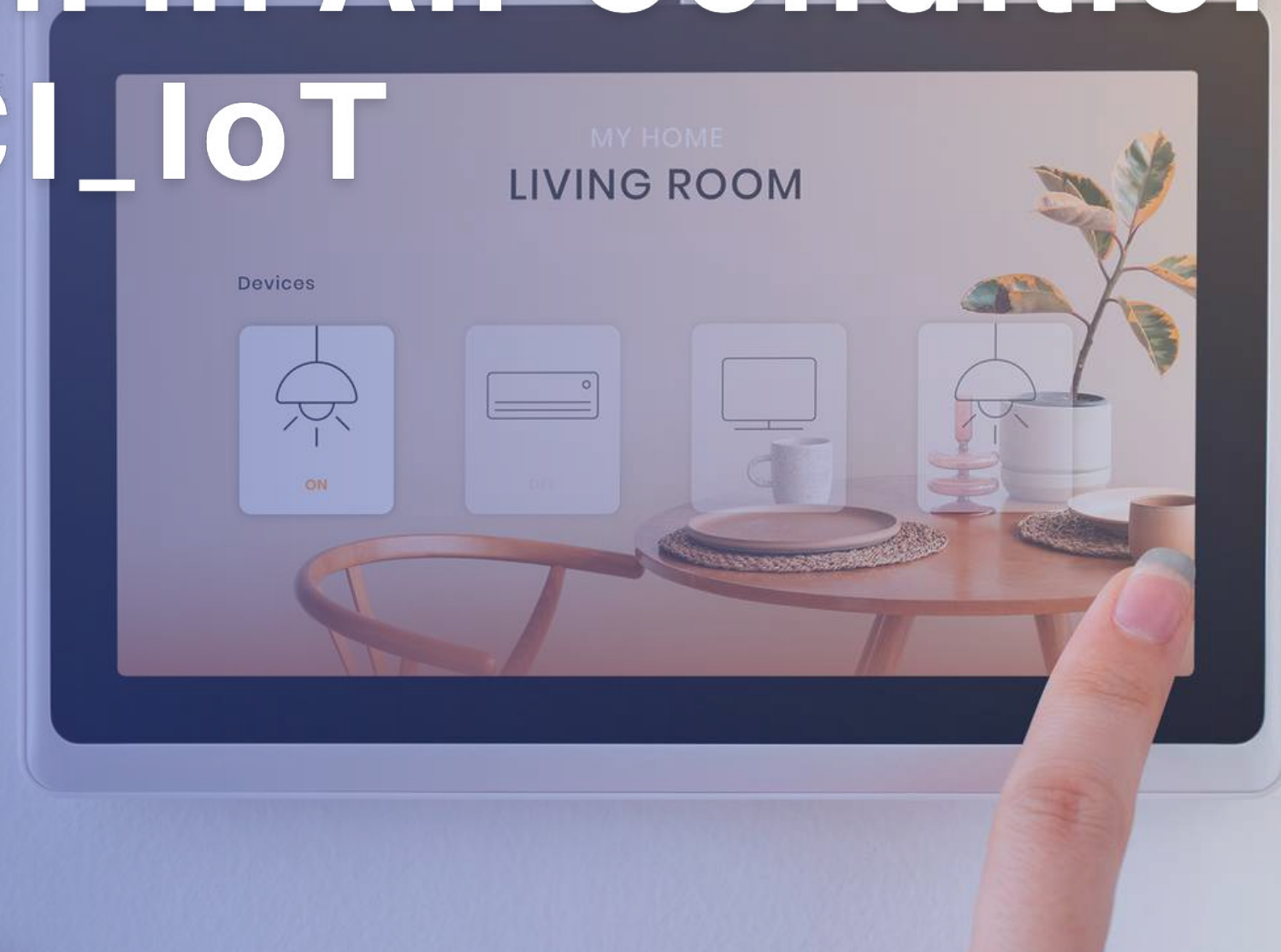
Ownership:

- UNEMAT
- FAPEMAT

AUTHORS

- Alexandre Berndt
- Gabrielly Héber A. da Cruz
- Bruno de Oliveira Silva

Automation System in Air Conditioning and Lighting - SACI_IoT



CHARACTERISTICS

- Efficient use of electrical energy in air conditioning and lighting
- Centralized device management with remote control

AUTOMATION SYSTEM IN AIR CONDITIONING AND LIGHTING - SACI_IOT



DESCRIPTION

SACI_IoT automation aims to present an automation solution integrated with the room usage reservation system database, aiming for conscious and efficient use of air conditioning and lighting in classrooms. It consists of equipment and a computer management system, avoiding waste of electrical energy.

APPLICATION

- In Higher Education Institutions and/or educational rooms focused on training focused on saving electricity.

IMPORTANT DETAILS

Deposit date:
09/24/2021

Language:
C++

Situation:
Certified registration

Ownership:

- UFMT
- UNEMAT

AUTHORS

- Marcelo Pereira Justino
- Marlon Rodrigues
- João Milani Junior
- Frank Willian R. da Silva
- Marcos Antônio Guerra
- Luciane Cleonice Durante

QUIMICA CRUSH

52



CHARACTERISTICS

- Application in educational games
- Assistance in teaching Chemistry

QUIMICACRUSH



DESCRIPTION

Quimicacrush is a software program initially created as a product originating from a master's thesis. On that occasion, surveys were carried out to verify the existence of cell phone games (Android platform) about teaching chemistry, specifically about inorganic functions in the color combination format. Given the lack of programs, the development of the idea and programming of the application began.

APPLICATION

- Cell phone game about teaching Inorganic Chemistry.

IMPORTANT DETAILS

Deposit date:
08/12/2021

Language:
Others

Situation:
Certified registration

Ownership:

- UNEMAT
- FAPEMAT

AUTHORS

- Gabriel Schardong Ferrão
- Sumaya Ferreira Guedes
- Rafael da Silva Folly
- Lucimar Nascimento Cardoso

FLIBRAS



CHARACTERISTICS

- Application in the educational area
- Assistance in teaching the Libras language
- Assistance in teaching Physics in Libras

FLIBRAS



DESCRIPTION

FLibras is a computer program developed through studies regarding the conception of the idea and product, originating from a master's thesis product. Surveys were carried out to verify the existence of programs for cell phones (Android platform) on teaching physics in Libras, noting, under the guidance of teachers, the absence of specific programs on the subject.

APPLICATION

- Development of an application in teaching Libras language, for application in the physics discipline.

IMPORTANT DETAILS

Deposit date:
08/12/2021

Language:
Others

Situation:
Certified registration

Ownership:

- UNEMAT
- FAPEMAT

AUTHORS

- Gabriel Schardong Ferrão
- Marciele Keyla Heidmann
- Sumaya Ferreira Guedes
- Alexandre Berndt

QUILEGAL



CHARACTERISTICS

- Application in the educational area
- Teaching process in Natural Sciences

QUILEGAL



DESCRIPTION

The application developed has educational purposes and combines different aspects: technical, pedagogical and motivational aimed at teaching Natural Sciences. It is divided into four topics and allows students and teachers access to different content and/or activities. Each screen is made up of different basic concepts resources related to the topics: chemical elements and chemical bonds, substances and their representations, chemical equations and reactions, and the free molecule builder. Each screen has playful aspects and implicit pedagogical objectives, which aim to stimulate students' interest in science through activities that involve active participation and decision-making in different situations and problems.

APPLICATION

- Teaching process focused on Natural Sciences
- Initial and/or continuing teacher training
- Reference for developing other applications

IMPORTANT DETAILS

Deposit date:
01/24/2019

Language:
Java Script

Situation:
Certified registration

Ownership:
• UNEMAT

AUTHORS

- Leonardo Elias Alves
- Cosme da Silva Lorim
- Magaywer Moreira de Paiva
- Fábio Caires de Oliveira
- José Wilson Pires de Carvalho
- Fernando Selleri

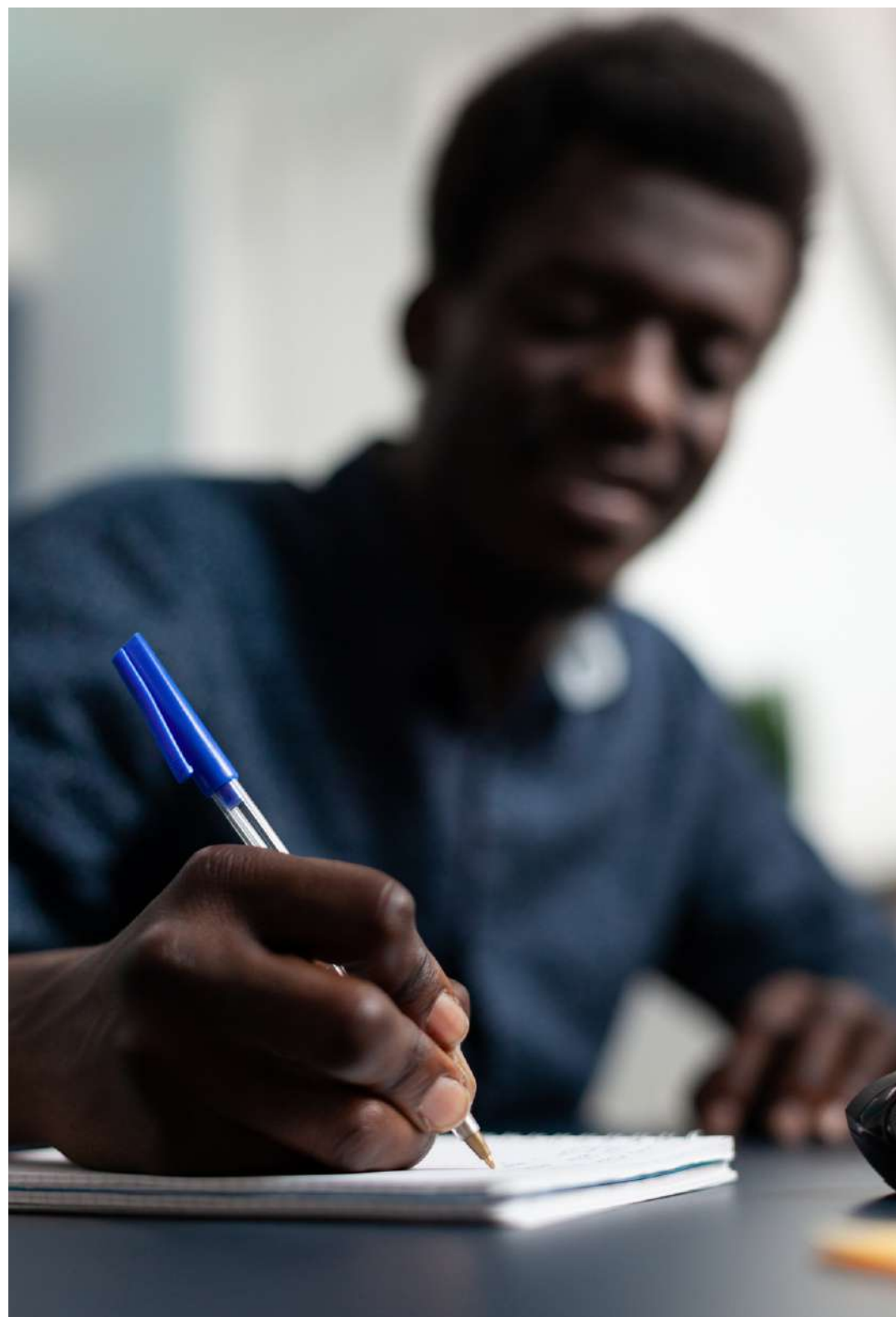
Connected Classroom Tests



CHARACTERISTICS

- Application in the educational area
- Tool for taking tests
- Inclusive test: reading questions and answers in image, video and/or audio

CONNECTED CLASSROOM TESTS



DESCRIPTION

The system allows the application of face-to-face tests offline with the use of computational resources capable of offering teachers the freedom to register questions, generate random tests and automate the correction process. The tool's differential is its support capacity, which includes reading questions and answers in image, video and audio. This enables autonomy for people with disabilities (PwD) to take the test.

APPLICATION

- Technological tool that allows the application of tests to people with disabilities - PwD;
- Use for distance learning and alternative for face-to-face teaching;
- Application for elementary, secondary, higher and instructional education.

IMPORTANT DETAILS

Deposit date:
07/27/2021

Language:
PHP

Situation:
Certified registration

Ownership:

- UNEMAT
- TNB

AUTHORS

- Tales Nereu Bogoni
- Luis Felipe Santos
- Claudiane Menin
- Mike Jhoe Barbosa Souza
- Ivan Augusto Alves da Rocha

SUGARCANE DETECTION SYSTEM (SCDS)

CHARACTERISTICS

- Used to process images from the TM sensor of the BAP satellite
- Recognition of sugarcane cropping patterns

SUGARCANE DETECTION SYSTEM (SCDS)



DESCRIPTION

The system was developed to identify and extract information from sugarcane crop plots present in satellite images. Image processing features such as contrast adjustment, resizing, cropping, color compositing, quadtree image, format conversion, zooming and edge detection have been implemented. Two methods for image classification were used, the parallelepiped method, and artificial neural networks with multilayer perceptron (MLP) networks. Furthermore, the calculation of three vegetation indices is available in SCDS: the Normalized Difference Vegetation Index (NDVI), the Enhanced Vegetation Index (EVI) and the 2-Band Enhanced Vegetation Index (EVI2).

APPLICATION

- The program is used to process images from the Thematic Mapper (TM) sensor on the Landsat 5 satellite of the Upper Paraguay Basin (BAP), to recognize sugarcane crop patterns
- It is also used to calculate the kappa index

- Future use comprises all digital image processing using the implemented algorithms.

IMPORTANT DETAILS

Deposit date:
04/27/2017

Language:
C++, Framework QT

Situation:
Certified registration

Ownership:
• UNEMAT

AUTHORS

- Paulo Henrique Hack de Jesus
- Edinéia A. Santos Galvanin

INNOVATION-PROMOTING ENVIRONMENTS



UNEMAT's Innovation-Promoting Environments

AGINOV DEFINITION AND SUPPORT

The Brazilian Legal Framework for Science, Technology and Innovation defines Innovation-Promoting Environments – APIs as spaces conducive to innovation and entrepreneurship, constituting environments characterized by the new knowledge-based economy.

AGINOV's role is to support, accredit and assist environments that promote innovation and entrepreneurship. To this end, it worked intensely on building a proposal for a Normative Instruction that makes it possible to institutionalize and promote UNEMAT's APIs.

ROLE OF IPES AT UNEMAT

UNEMAT's APIs main functions are to provide incubator services involving ventures and ideas, in addition to offering support in mentoring, consultancy, advisory, business modeling, financial management, marketing management, boosting, development of technological solutions, among many other activities.

By the end of 2022, Unemat has 8 innovation-promoting environments certified by AGINOV, which are: CRIAR, IPEESS, RISC, Empreenda MT, Inova Araguaia, InoveLab MT, UNEMAT's Information Technology – TIU and MT Horticultura.



Unemat Campus

- Alta Floresta
- Alto Araguaia
- Barra do Bugres
- Cáceres
- Colíder
- Diamantino
- Juara
- Luciára
- Nova Mutum
- Nova Xavantina
- Pontes e Lacerda
- Tangará de Serra
- Sinop



MT Horticultura
Soluções para o empreendedor do campo



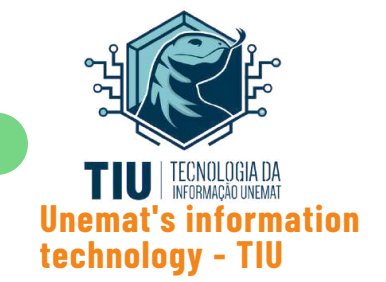
inovelab^{MT}
Entrepreneurship and Innovation of North of Mato Grosso - InoveLab



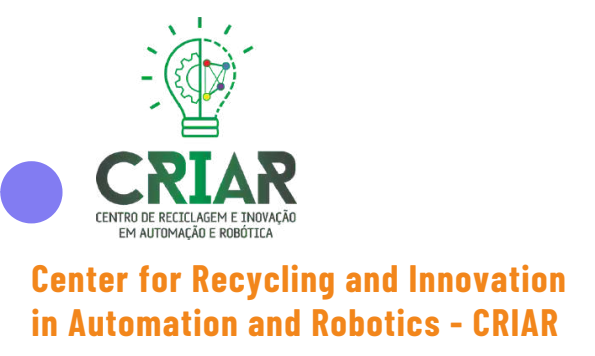
INOVA ARAGUAIA
REDE DE INOVAÇÃO TECNOLÓGICA DO NORTE ARAGUAIA
Technological Innovation and Entrepreneurship Network of Norte Araguaia - Inova Araguaia



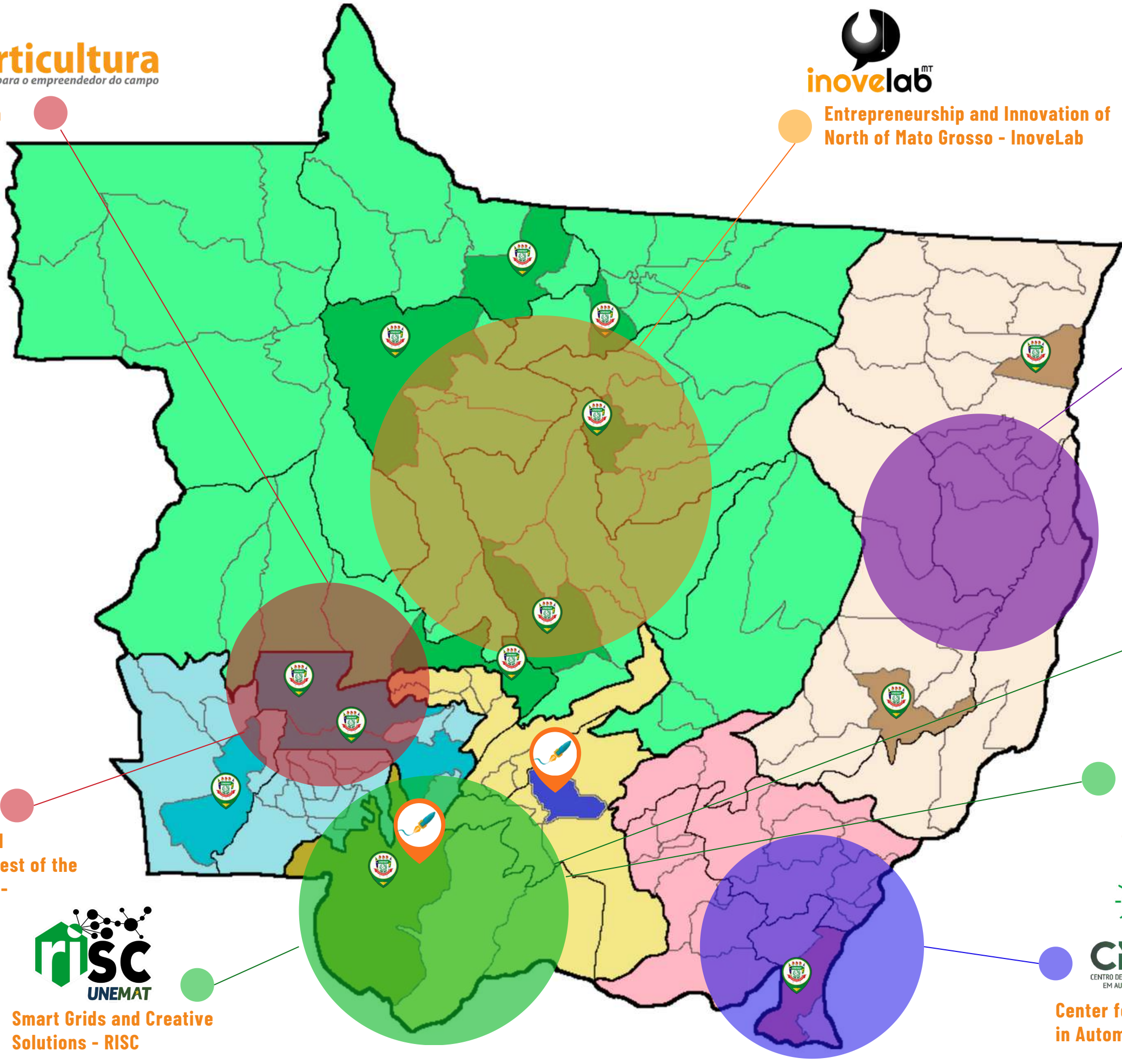
IPEESS
INCUBADORA PÚBLICA DE EMPREENDIMENTOS ECONÔMICOS SÓLIDARIOS E SUSTENTÁVEIS
Public Incubator for Solidarity and Sustainable Economic Enterprises - IPEESS



TIU | TECNOLOGIA DA INFORMAÇÃO UNEMAT
Unemat's information technology - TIU

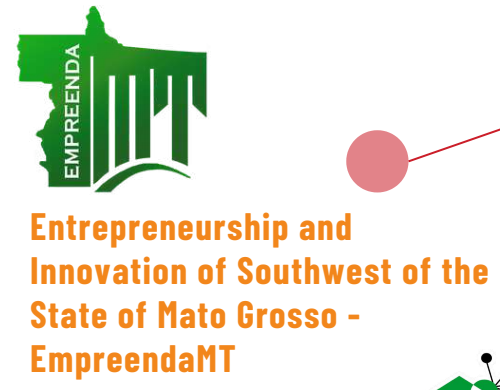


CRIAR
CENTRO DE RECICLAGEM E INOVAÇÃO EM AUTOMAÇÃO E ROBÓTICA
Center for Recycling and Innovation in Automation and Robotics - CRIAR

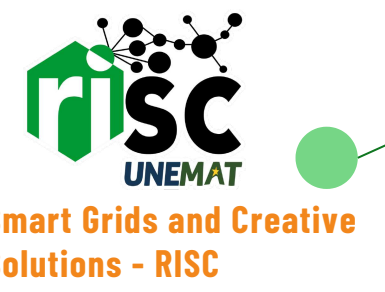


Unemat's Innovation Agency

- North Mesoregion
- North-east Mesoregion
- Central-South Mesoregion
- South-east Mesoregion
- South-west Mesoregion
- Cuiabá / Capital - MT



EmpreendaMT
Entrepreneurship and Innovation of Southwest of the State of Mato Grosso - EmpreendaMT



RISC UNEMAT
Smart Grids and Creative Solutions - RISC



Online innovation map

Center for Recycling and Innovation in Automation and Robotics - CRIAR



Fernando Yoiti Obana
Coordinator

- **Mesoregion**
- South-east

Center for Recycling and Innovation in Automation and Robotics - CRIAR



ABOUT

CRIAR is a Technological Innovation Center that acts as a technological, administrative, financial and legal consultant for entrepreneurial and innovative projects in the Southeast region of the state of Mato Grosso. CRIAR forms a regional network of entrepreneurial and innovative professionals who are able to support and encourage entrepreneurship and local and regional innovation,

bringing economic and social growth to the entire Southeast region of the state of Mato Grosso. We are followers of the Maker culture and work under the concept of Frugal innovation, using materials from electronics recycling.

ACTIVITIES AND AREAS OF ACTIVITY

Development and design of basic electronic circuits for automation and robotics, modeling and 3D printing in plastic, development of computer systems to serve any type of activity. Professional qualification courses in electronics, automation, robotics and computer programming.

SERVICE REGION

South-east Region of the State of Mato Grosso: Alto Araguaia, Alto Garcas, Alto Taquari, Araguainha, Campo Verde, Dom Aquino, General Carneiro, Guiratinga, Itiquira, Jaciara, Juscimeira, Pedra Preta, Pontal do Araguaia, Ponte Branca, Poxoreo, Primavera do Leste, Ribeirãozinho, Rondonópolis, São José do Povo, São Pedro da Cipa, Tesouro, Torixoreu and Santa Rita do Araguaia - GO.





Edir Antonia de Almeida
Coordinator

- **Mesoregion**
 - Central-South



ABOUT

IPEESS is an incubator whose main objective is to encourage the generation of work and income among groups and communities in situations of social vulnerability, especially women, young people, people of Afro-descendants and traditional peoples and communities. This is done by offering technical advice focused on the economic and social aspects of its projects. At the same time, the incubator acts as a driving force for local

development, as it is dedicated to implementing innovative and strategic projects, based on solidarity and sustainability.

ACTIVITIES AND AREAS OF ACTIVITY

A business incubator (cooperatives, ME, NISA, third sector entities) develops innovative and strategic projects to generate income and local development. She works in the areas of management, accounting, resource training, training in Human Rights, training in Minority Rights (women, Afro-descendants, traditional peoples and communities), strategic planning, accountability, digital marketing, organization of fairs, among others.

SERVICE REGION

Central-South Region of the State of Mato Grosso: Alto Paraguai, Arenópolis, Nortelândia, Nova Marilândia, Santo Afonso, Acorizal, Jangada, Rosário Oeste, Chapada dos Guimarães, Cuiabá, Nossa Senhora do Livramento, Santo Antônio de Leverger, Várzea Grande, Barão de Melgaço, Cáceres, Curvelândia and Poconé.



RISC Innovation Center



Robson Gomes de Melo
Coordinator

- **Mesoregion**
 - Central-South and South-west

RISC Innovation Center



ABOUT

The RISC Innovation Center - Smart Networks and Creative Solutions is an environment that promotes intra and interdisciplinary innovation with a strong presence at the interface between society and the University. RISC works to develop technological solutions for both the public and private sectors, creating agreements, technical cooperation terms, among others. The focus of the actions is on technological solutions with an emphasis on low,

medium and high complexity digital systems and platforms.

ACTIVITIES AND AREAS OF ACTIVITY

Incubator of embryonic or consolidated ideas and ventures, which offers consultancy, advisory services, product development, process development, technological services, courses, training, extension activities, research activities and development of low, medium and high technological solutions complexity.

SERVICE REGION

Central-South Region of the State of Mato Grosso: Alto Paraguai, Arenópolis, Nortelândia, Nova Marilândia, Santo Afonso, Acorizal, Jangada, Rosário Oeste, Chapada dos Guimarães, Cuiabá, Nossa Senhora do Livramento, Santo Antônio de Leverger, Várzea Grande, Barão de Melgaço, Cáceres, Curvelândia and Poconé.

South-west Region of the State of Mato Grosso: Conquista d'Oeste, Nova Lacerda, Pontes e Lacerda, Vale de São Domingos, Vila Bela da Santíssima Trindade, Barra do Bugres, Denise, Nova Olímpia, Porto Estrela, Angará da Serra, Araputanga, Figueirópolis d'Oeste, Glória d'Oeste, Indiavaí, Jauru, Lambari d'Oeste, Mirassol d'Oeste, Porto Esperidião, Reserva do Cabaçal, Rio Branco, Salto do Céu, São José dos Quatro Marcos.





Eloi Chavier Martins
Coordinator

- **Mesoregion**
 - South-west



ABOUT

EmpreendaMT is a key part of UNEMAT's activities in encouraging entrepreneurship and innovation in the region of Tangará da Serra, Barra do Bugres and the region. As one of the main governance actors in the recently created CONECTATGA ecosystem, EmpreendaMT has supported initiatives to encourage a culture of innovation and, through its free mentoring, brings the university and its academic community closer to the external public.

Our API aims to consolidate this relationship through mentoring, and the implementation of a product prototyping laboratory in Barra do Bugres.

ACTIVITIES AND AREAS OF ACTIVITY

Acts as mentoring of ideation, business modeling, financial management, marketing management, promotion, development of technological solutions (websites, apps, etc.) of low complexity (not generating patents). In addition, it provides of mentoring services for the submission of notices, courses, training, extension activities, research and consultancy activities.

SERVICE REGION

South-west Region of the State of Mato Grosso: Conquista d'Oeste, Nova Lacerda, Pontes e Lacerda, Vale de São Domingos, Vila Bela da Santíssima Trindade, Barra do Bugres, Denise, Nova Olímpia, Porto Estrela, Tangará da Serra, Araputanga, Figueirópolis d'Oeste, Glória d'Oeste, Indiavaí, Jauru, Lambari d'Oeste, Mirassol d'Oeste, Porto Esperidião, Reserva do Cabaçal, Rio Branco, Salto do Céu and São José dos Quatro Marcos.





Joaquim Manoel da Silva
Coordinator

- **Mesoregion**
- North-East



ABOUT

Inova Araguaia has a physical and virtual infrastructure based in the municipalities of Querência and Nova Xavantina in order to develop actions to support startups and micro and small entrepreneurs; provides assistance/guidance to existing companies through mentoring that helps company management (virtual/in-person); promotes actions and events involving technological challenges, such as Startup Weekend or Hackathon, to promote an increase in Innovation and Entrepreneurship activities; promotes the innovation and entrepreneurship hub of Norte Araguaia; offering assistance to start-up companies in the company creation process, administrative, financial and production guidance, as needed; Promotion of innovative entrepreneurship with the offer of mentoring aimed at admission to undergraduate and

secondary-technical education courses; Encouraging the creation of a feedback network of the innovation ecosystem, through the training of entrepreneurs, teachers and members of society to act as mentors for the ecosystem itself; Guidance to researchers on the possibility of generating patents and software registrations based on the results of research projects; I encourage the creation of sustainable companies or social projects based on applied research projects and innovative technological extension; Guidance on the creation of new research and extension projects according to market demands; Stimulating investment in innovation and project financing for companies in the region; Act at the interface between companies, researchers and investors through the creation of a portfolio, diagnosis and cooperation network in the North Araguaia region.

ACTIVITIES AND AREAS OF ACTIVITY

Promotes the creation and promotion of the Norte Araguaia Technological Innovation and Entrepreneurship Network. Inova Araguaia operates through a hybrid office (in-person and virtual) and offers advisory services, courses, training, extension activities and research activities, always thinking about the sustainable economic and social development of the region.

SERVICE REGION

North-east Region of the State of Mato Grosso: Alto Boa Vista, Bom Jesus do Araguaia, Canabrava do Norte, Confresa, Luciara, Novo Santo Antônio, Porto Alegre do Norte, Ribeirão Cascalheira, Santa Cruz do Xingu, Santa Terezinha, São Félix do Araguaia, São José do Xingu, Serra Nova Dourada e Vila Rica, Água Boa, Campinápolis, Canarana, Nova Nazaré, Nova Xavantina, Novo São Joaquim, Querência, Santo Antônio do Leste, Araguaiana, Barra do Garças, Cocalinho.





Roberta Leal Raye Cargnin
Coordinator

- **Mesoregion**
- North



ABOUT

Inovelab is an entrepreneurship and innovation environment in the northern region with a decentralized core of operations in the municipalities of Nova Mutum, Juara, Colíder and Sinop. Aiming to connect people who want to undertake with innovation. Inovelab is an API that participates in events such as hackthons, workshops, meetups, innovation week and fairs with the aim of supporting and promoting innovation.

ACTIVITIES AND AREAS OF ACTIVITY

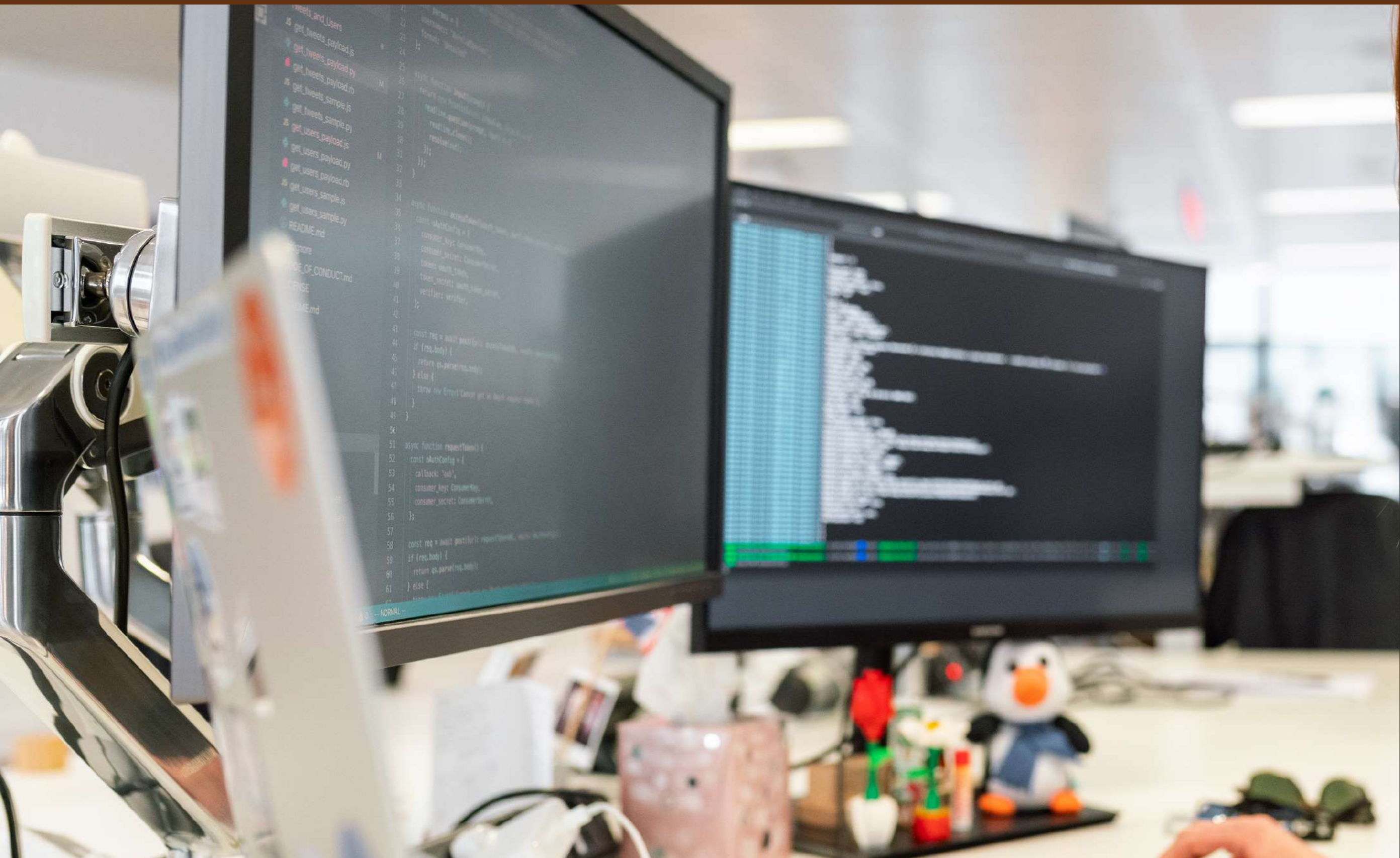
It operates with training and competitions, technical-scientific services, teaching, research, extension and innovation activities, on demand and financed by third parties. Inovelab also provides services in the areas of business, prototyping, validation, marketing, advertising and design.

SERVICE REGION

Northern Region of the State of Mato Grosso: Aripuanã, Brasnorte, Castanheira, Colniza, Cotriguaçu, Juína, Juruena, Rondolândia, Alta Floresta, Apiacás, Carlinda, Nova Bandeirantes, Nova Monte Verde, Paranaíta, Colíder, Guarantã do Norte, Matupá, Nova Canaã do Norte, Nova Guarita, Novo Mundo, Peixoto de Azevedo, Terra Nova do Norte, Campo Novo do Parecis, Campos de Júlio, Comodoro, Diamantino, Sapezal, Juara, Nova Maringá, Novo Horizonte do Norte, Porto dos Gaúchos, São José do Rio Claro, Tabaporã, Ipiranga do Norte, Itanhangá, Lucas do Rio Verde, Nobres, Nova Mutum, Nova Ubiratã, Santa Rita do Trivelato, Sorriso, Tapurah, Cláudia, Feliz Natal, Itaúba, Marcelândia, Nova Santa Helena, Santa Carmem, Sinop, União do Sul, Vera, Gaúcha do Norte, Nova Brasilândia, Paranatinga, Planalto da Serra.



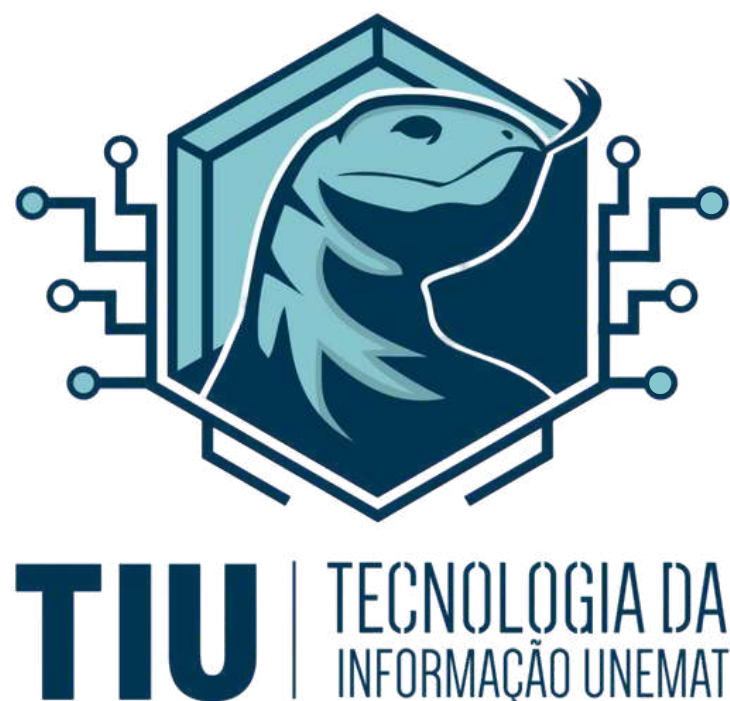
Unemat's information technology - TIU



Dhyego Silva Domingos Brandão
Coordinator

- **Mesoregion**
- **Central-South**

Unemat's information technology - TIU



ABOUT

The UNEMAT's Information Technology (TIU) is responsible for providing all technological support for institutional actions, through the development of solutions, system implementations, infrastructure support and support to the entire academic community in relation to information technology. Its team is made up of employees who work in the UNEMAT rectory and on its 13 campuses.

ACTIVITIES AND AREAS OF ACTIVITY

TIU's activities are segmented into three areas of activity:

- **Software Development and Implementation Team**, which works on producing systems that meet UNEMAT's demands, optimizing time and human resources, providing consolidated information for management;
- **Infrastructure Team** works to support the systems used by the institution, through services and computational resources necessary for the operation of the solutions. They also support the entire UNEMAT logical network, through which all the university's data and services travel;
- **The support team** is responsible for providing support to end users, who use UNEMAT's technology resources.

SERVICE REGION

TIU serves the state of Mato Grosso through UNEMAT university campuses, which are located in 13 municipalities in Mato Grosso.



MT Horticultura



Willian Krause
Coordinator

- **Mesoregion**
- South-west

MT Horticultura



ABOUT

MT Horticulture aims to develop production technologies for fruits, flowers and vegetables, as well as popularize this knowledge among rural producers, companies and public institutions. MT Horticultura works by developing technical-scientific services, teaching, research, extension and innovation activities, on demand and financed by third parties. With an infrastructure that includes a fruit growing, horticultural and botanical laboratory.

ACTIVITIES AND AREAS OF ACTIVITY

MT Horticultura operates in the areas of laboratory analysis, technical reports, product development, research, development and innovation (RD&I) projects, technological services, training and competitions.

We also participate in events related to our areas of activity, such as workshops, technology and innovation fairs, among others.

SERVICE REGION

South-west Region of the State of Mato Grosso: Conquista d'Oeste, Nova Lacerda, Pontes e Lacerda, Vale de São Domingos, Vila Bela da Santíssima Trindade, Barra do Bugres, Denise, Nova Olímpia, Porto Estrela, Tangará da Serra, Araputanga, Figueirópolis d'Oeste, Glória d'Oeste, Indiavaí, Jauru, Lambari d'Oeste, Mirassol d'Oeste, Porto Esperidião, Reserva do Cabaçal, Rio Branco, Salto do Céu and São José dos Quatro Marcos.





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