



ANEXA 4. MANIFESTĂRI ȘTIINȚIFICE CONDUCĂTORI DE DOCTORAT – INGINERIE MECANICĂ

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123. PERSU C., GHEORGHE G., GĂGEANU I., CUJBESCU D., IONESCU AL., ANGHELACHE D. THE ARCHITECTURE AND OPERATIONAL LOGIC OF A SYSTEM DEDICATED TO MONITORING PESTS OF FRUIT CROPS. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 684-689
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125. GHEORGHE G., MATEESCU M., CISMARU E-M., PRISACARIU E., HARABAGIU A., DUMITRU Ș., SCURTU I-L. SYSTEMS FOR HIGH PRECISION APPLICATION OF PLANT PROTECTION PRODUCTS, FERTILIZERS AND FOR SEEDING IN DIFFICULT AREAS. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 666-673
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127. MUSCALU A., TUDORA C., ANGHELACHE D., CHIRITA A-P., NAIE M. USE OF DIC (INSTANT CONTROLLED PRESSURE DROP) PROCESS FOR THE EXTRACTION OF ESSENTIAL OILS – REVIEW. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 114-123
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- SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 746-751
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131. IONESCU AL., VLĂDUȚ V., MIRCEA C., DUMITRU I., STROESCU GH., BLEJAN R., LAZĂR C., UTOIU C. THE IMPACT OF WEEDS ON THE SOIL SAMPLING PROCESS PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 806-815
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133. ANGHELACHE D., EPURE M., UNGUREANU N., DUMITRU C., VLĂDUȚ V., OLAN M., MATEI GH., TELIBAN G-C., BUTURUGA-BARBU L-D. THE IMPORTANCE OF CONSERVATION TECHNOLOGIES FOR AGRICULTURE IN THE CONDITIONS OF PROLONGED DROUGHT. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. 700-707
134. PERSU C., CUJBESCU D., GĂGEANU I., IONESCU AL., ANGHELACHE D., ADVANCED TECHNIQUES FOR MONITORING PESTS IN FRUIT CROPS . PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 660-665
135. ZAICA AL., ANGHELACHE D., ZAICA A., TĂBĂRAȘU A-M., CISMARU M., PRISACARIU E. SILAGE OF GREEN FODDER, A FAVORABLE ALTERNATIVE FOR SMALL AND MEDIUM-SIZED FARMS. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. . 752-757
136. CRISTEA R-D., CÎRSTEA D-A., IONESCU AL., MATACHE M.G., PANĂ G-F., PERFORMANCE AND ACCURACY ANALYSIS OF YOLOV8 MODELS ON TOMATO IMAGE DATASETS . PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. 738-745
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144. DUMITRU I., VLĂDUȚOIU L., NENCIU F., VLADUȚ V., IONESCU A., MILEA O.-E., NAE G., MIRCEA C., VOICEA I., GRIGORE A.-I, BIOCHAR IN SUSTAINABLE AGRICULTURE: EFFECTIVE APPLICATION STRATEGIES FOR SOIL IMPROVEMENT AND PRODUCTIVITY INCREASE- REVIEW . PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. 512-521
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146. MARIN E., VLĂDUȚ N-V., MATACHE M-G., CUJBESCU D-I., CRISTEA M., IONESCU A. STUDY ON OPTIMIZING THE PERFORMANCE OF ROW CROP SEEDERS . PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT .276-287
147. M., MANEA D., MARIN E., DUMITRU D-N., CISMARU E-M. IMPLEMENTATION OF A MICROHYDROPOWER SYSTEM FOR SUSTAINABLE AERATION OF FISH PONDS. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. 432-437
148. MARIN E., MOCANU V., ENE T-A., MANEA D., MATACHE M-G., VLĂDUȚOIU L-C., IONESCU A. PERFORMANCE EVALUATION OF THE EXPERIMENTAL PLANER-GRADER MODEL FOR PERMANENT GRASSLAND MAINTENANCE . PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT . 438-445
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150. TĂBĂRAȘU A.M., GĂGEANU I., ANGHELACHE D.N., ONCESCU T.A., ANTON D.R., VANGHELE N.A., CISMARU M.E., CIOACLĂ A., IONESCU A., RADU C. VALORIZATION OF RENEWABLE RESOURCES FOR THE PRODUCTION OF BIOPLASTICS IN A CIRCULAR ECONOMY. PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT . 250-257

151. ONCESCU T.A., VLĂDUȚ N.V., GĂGEANU I., PERSU I.C., MATAACHE M.G., MILEA O.E., TĂBĂRAȘU A.M., MICU L.M. CURRENT STATE OF RESEARCH ON THE INFLUENCE OF VIBRATIONS ON THE HUMAN BODY OF VEHICLE OPERATORS . PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ISB-INMA-TEH-2024. TECHNOLOGIES AND TECHNICAL SYSTEMS IN AGRICULTURE, FOOD INDUSTRY AND ENVIROMENT. 258-269

Proiecte

- Exemple de contracte în care sunt implicați doctoranzii (2021-2025)**

Nr. crt	Nr. contract / Denumire proiect	
PLAN SECTORIAL AL MINISTERULUI AGRICULTURII ȘI DEZVOLTĂRII RURALE 2023-2025		
1.	ADER 25.1.1 - Tehnologie de recoltare robotizată a legumelor din familia <i>solanacee</i> în sere și solarii, utilizând inteligența artificială	Ionescu Alexandru, Vanghele Nicoleta, Anghelache Dragoș, Tăbărașu Ana-Maria, Cismaru Melania, Harabagiu Alin – 2024-2025
2.	ADER 25.1.2 - Tehnologie inovativă de prelucrare minimă a terenului agricol adaptată la schimbările climatice actuale	
3.	ADER 25.2.1 - Sistem digital destinat monitorizării culturilor pomicole	
4.	ADER 25.2.2 - Ferma acvaponică verticală adaptată schimbărilor climatice actuale	
5.	ADER 25.3.1 - Tehnologie de valorificare a dejecțiilor din avicultură prin obținerea de biofertilizanți bogăți în fosfor	Ionescu Alexandru
6.	ADER 2.1.4 - Cercetări privind perfecționarea managementului integrat de combaterea buruienilor la principalele culturi de câmp, în contextul schimbărilor climatice și a restricțiilor green deal privind exploatarea durabilă a resurselor agricole de mediu	
7.	ADER 18.1.1 - Dezvoltarea unor soluții pentru refacerea sănătății solului în condițiile menținerii sustenabilității mediului prin valorificarea potențialului fertilizant al îngrășămintelor organice	Vanghele Nicoleta
8.	ADER 24.1.3 - Cercetări privind elaborarea de noi sisteme și tehnologii pentru managementul durabil al resurselor genetice din domeniul sericicol și identificarea de noi căi de valorificare a produselor principale și secundare cu impact economic și social	Tăbărașu Ana-Maria
PROGRAM NUCLEU 2023-2025		
10.	9N - Tehnologie inteligentă pentru aplicarea cu precizie ridicată a produselor de protecția plantelor, fertilizanților și pentru însămânțarea în zone greu accesibile	Ionescu Alexandru, Vanghele Nicoleta, Anghelache Dragoș, Tăbărașu Ana-Maria, Cismaru Melania, Harabagiu Alin – 2024-2025
11.	9N - Sistem automat inteligent destinat prelevării georeferențiate a probelor de sol	
12.	9N - Sistem inteligent (robot) subacvatic pentru protecția vieții, sănătății și a mediului de dezvoltare	
13.	9N - Sisteme inteligente de creștere a plantelor în condiții controlate de mediu	
14.	9N - Tehnologie inovativă destinată întreținerii plantațiilor pomicole	
15.	9N - Sistem inteligent mixt de protecție a culturilor agricole împotriva dăunătorilor conform conceptului de <i>Agricultură 4.0</i>	
16.	9N - Tehnologie inovativă de producere a biofertilizanților în vederea refacerii biodiversității solului și reducerea efectelor secetei asupra terenurilor agricole	
17.	9N - Cercetări privind utilizarea deșeurilor de lână la obținerea unor fertilizanți organici pentru agricultură în vederea îmbunătățirii proprietăților solului și reducerii poluării mediului	

Nr. crt	Nr. contract / Denumire proiect
18.	9N - Tehnologie inovativă de înierbare a intervalului dintre rândurile de viță-de-vie și pomi fructiferi pentru evitarea degradării structurii solului
19.	9N - Tehnologie de valorificare a resturilor vegetale sub formă de biochar în vederea îmbunătățirii calității solului
20.	9N - Tehnologie inovativă pentru valorificarea superioară a inflorescențelor și semințelor de plante medicinale

• **Exemple de cereri de brevet în care apar doctoranzii**

Nr. crt.	TITLU	Autori	Nr. înreg. OSIM
2023			
1.	METODĂ DE DETERMINARE A UNIFORMITĂȚII DE SEMĂNAT LA SEMĂNĂTORILE DE PĂIOASE	Cujbescu Dan Voicea Iulian Persu Cătălin Matache Mihai Anghelache Dragoș Constantinescu Mihai	A-00604 25.10.2023
2.	METODĂ DE DETERMINARE A PRECIZIEI DE SEMĂNAT A SEMĂNĂTORILOR DE PLANTE PRĂȘITOARE	Cujbescu Dan-Iulian Voicea Iulian Persu Ioan Cătălin Ionescu Alexandru Tăbărașu Ana-Maria Vlăduț Valentin Nicolae	A-00602 25.10.2023
3.	METODĂ DE SIMULARE A COMPACTĂRII BIOMASEI SUB FORMĂ DE PELETE	Găgeanu Iuliana, Gheorghe Gabriel, Nițu Mihaela, Tăbărașu Ana-Maria , Vlăduț Valentin Nicolae	A-00413 28.07.2023
4.	DISPOZITIV ECOLOGIC CRIOGENIC PORTABIL PENTRU DISTRUGEREA LOCALIZATĂ A BURUIENILOR	Matache Andreea Sorică Elena Matache Mihai Gabriel Găgeanu Iuliana Gheorghe Gabriel Ionescu Alexandru	A-00535 29.09.2023
5.	METODĂ DE OPTIMIZARE A GERMINĂRII SEMINȚELOR DE PLANTE PENTRU CONSUM DE TIP MICROGREENS	Găgeanu Iuliana, Persu Cătălin, Tăbărașu Ana-Maria , Cujbescu Dan, Gheorghe Gabriel	A-00592 20.10.2023
6.	MODUL CONTAINERIZAT DE FERMĂ URBANĂ MODULARĂ	Sorică Elena, Vlăduț Nicolae-Valentin, Sorică Cristian, Vlăduțoiu Laurențiu, Muscalu Adriana, Ionescu Alexandru , Constantinescu Mihai	A-00593 20.10.2023
7.	SISTEM INTELIGENT DESTINAT APLICĂRII TRATAMENTELOR FITOSANITARE ȘI MONITORIZĂRII PRODUCȚIEI ÎN SERE	Persu Ioan Cătălin Cujbescu Dan Iulian Matache Mihai Gabriel Găgeanu Iuliana Vlăduț Nicolae-Valentin Constantinescu Mihai Gheorghe Gabriel Voicea Iulian Anghelache Dragoș	A-00623 27.10.2023
8.	SISTEM DIGITAL ȘI METODĂ DE MONITORIZARE A DĂUNĂTORILOR ÎN CULTURILE POMICOLE UTILIZÂND CAPCANE INTELIGENTE CU FEROMONI ȘI STAȚII METEO	Persu Ioan Cătălin Cujbescu Dan Iulian Matache Mihai Gabriel Găgeanu Iuliana Vlăduț Nicolae-Valentin Gheorghe Gabriel Voicea Iulian Anghelache Dragoș	A-00624 27.10.2023
2024			

Nr. crt.	TITLU	Autori	Nr. înreg. OSIM
2023			
1.	SISTEM INTELIGENT PENTRU APLICAREA CU PRECIZIE RIDICATĂ A FERTILIZANȚILOR SOLIZI	Gheorghe Gabriel Mateescu Marinela Dumitru Dragoș Nicolae Cismaru Elena-Melania Cristea Oana-Diana	A-00211 24.04.2024
2.	SISTEM INTELIGENT PENTRU APLICAREA CU PRECIZIE RIDICATĂ A PRODUSELOR LICHIDE DE PROTECȚIE A PLANTELOR	Gheorghe Gabriel Găgeanu Iuliana Persu Ioan Cătălin Tăbărașu Ana-Maria	A-00212 24.04.2024
3.	SISTEM INTELIGENT PENTRU ÎNSĂMÂNȚAREA ÎN ZONE GREU ACCESIBILE	Gheorghe Gabriel Prisacariu Elisabeta Harabagiu Alin Nicolae Cristea Robert Ionescu Alexandru	A-00213 24.04.2024
4.	SISTEM DE SIMULARE A CREȘTERII PLANTELOR	Găgeanu Iuliana Persu Cătălin Cujbescu Dan Gheorghe Gabriel Ionescu Alexandru Tăbărașu Ana-Maria	A-00252 15.05.2024
5.	ECHIPAMENT ȘI METODĂ DE PRELUCRARE A SOLULUI ȘI DE SEMĂNAT IERBURI	Marin Eugen Anghelache Dragoș Dumitru Dragoș-Nicolae Manea Dragoș Prisacariu Elisabeta Harabagiu Alin-Nicolae	A-00313 12.06.2024
6.	SISTEM INTELIGENT MIXT PENTRU PROTECȚIA CULTURILOR	Pruteanu Augustina Matache Mihai Sorică Cristian Voicea Iulian Cristea Mario Ionescu Alexandru	A-00422 17.07.2024
7.	SISTEM DE COMANDĂ ȘI CONTROL PROCES DE SORTARE, DEPOZITARE ȘI IDENTIFICARE A PROBELOR DE SOL	Cristea Mario Constantinescu Mihai Sorică Cristian, Cristea Robert Vlăduț Nicolae-Valentin Matache Mihai-Gabriel Ionescu Alexandru	A-00699 14.11.2024
2025			
1.	MICROSERĂ ROTATIVĂ CU LIVRARE AUTOMATĂ DE NUTRIENȚI ȘI DISTRIBUIRE ZONALĂ	Găgeanu I., Vlăduț V., Olan M., Matache M., Voicea I., Tăbărașu A.M.	A-00154 / 30.04.2025
2.	METODĂ DE EVALUARE A VIBRAȚIILOR TRANSMISE CONDUCĂTORULUI AUTO AL UNUI VEHICUL AGRICOL AUTOPROPULSAT	Oncescu T.A., Vlăduț N.-V., Găgeanu I., Persu I.C., Milea O.E., Tăbărașu A.-M.	A-00184 / 22.05.2025
3.	DISPOZITIV DE RIDICARE ACȚIONAT ELECTRIC, DESTINAT MANIPULĂRII UNOR UTILAJE AGRICOLE DE MICI DIMENSIUNI	Cristea M., Sorică C., Constantinescu M., Matache M., Vlăduț V., Cristea R., Ionescu Al.	A-00254 19.06.2025
4.	SISTEM INTEGRAT CU DRONĂ INTELIGENTĂ PENTRU DETECTAREA, DESCURAJAREA ȘI CARTOGRAFIEREA DAUNELOR PROVOCATE DE ANIMALELE SĂLBATICE CULTURILOR AGRICOLE	Cristea R., Gheorghe G., Tăbărașu A.-M., Ionescu Al. , Oncescu A.	A-00313 17.07.2025
	ROBOT AUTONOM PENTRU COLECTAREA FRUNZELOR CU SISTEM DE DESCĂRCARE ȘI ÎNCĂRCARE AUTOMATĂ LA O BAZĂ CU PANOURI FOTOVOLTAICE	Gheorghe G., Găgeanu I., Persu C., Tăbărașu A.-M. , Oncescu A.	A-00314 17.07.2025
	SISTEM DE DEZINFECȚIE ÎN FLUX CONTINUU A TĂVILOR SEMĂNATE CU MICROPLANTE PENTRU AGRICULTURA VERTICALĂ	Găgeanu I., Gheorghe G., Persu C., Cujbescu D., Matache M., Vlăduț V., Tăbărașu A.-M.	A-00513 / 05.11.2025

