



**НАЦИОНАЛНА НАУЧНА ПРОГРАМА
„ИНФОРМАЦИОННИ И КОМУНИКАЦИОННИ ТЕХНОЛОГИИ ЗА ЕДИНЕН
ЦИФРОВ ПАЗАР В НАУКАТА, ОБРАЗОВАНИЕТО И СИГУРНОСТТА
(ИКТВНОС)“**

ПЛОВДИВСКИ УНИВЕРСИТЕТ „ПАИСИЙ ХИЛЕНДАРСКИ“

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СПИСЪК С НАУЧНИ ПУБЛИКАЦИИ

КОМПОНЕНТ 1

ЕЛЕКТРОННА ИНФРАСТРУКТУРА ЗА ОТВОРЕНА НАУКА И ОТВОРЕН ДОСТЪП ДО НАУЧНИ РЕЗУЛТАТИ

Работен пакет 1.1. Високопроизводителни и разпределени пресмятания

Научна задача 1.1.1. Интегриране на съвременните изчислителни системи и системи за съхранение на данни, софтуер, мидълуер и услуги; предоставяне на българските изследователи прозрачен и отворен достъп до изчислителната инфраструктура с цел разработване и експлоатация на изчислително интензивни научни приложения.

Публикации по задача 1.1.1.

1. Kyurkchiev, N., A. Iliev, A. Rahnev, On a Cumulative Function with "Polynomial Variable Transfer". Some Applications, Communications in Applied Analysis, 24, № 1, 2020, p. 47-59, ISSN: 1083-2564, DOI: 10.12732/caa.v24i1.4.
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https://www.researchgate.net/publication/351660392_A_Refinement_of_the_Extended_Euclidean_Algorithm



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4. Iliev, A. , N. Kyurkchiev, A. Rahnev, T. Terzieva, A refinement of the Boh's algorithm for computing modular multiplicative inverse. International Electronic Journal of Pure and Applied Mathematics, Volume 15, No. 1 2021, 45-53, ISSN: 1314-0744. doi: 10.12732/iejpam.v15i1.5

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6. Kyurkchiev, N., A. Iliev, O. Rahneva, V. Kyurkchiev. A look at some trigonometric-G families with baseline inverted exponential (cdf). Applications. International Journal of Differential Equations and Applications, 2021, Vol. 20, No. 1, 103–119, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084. doi: 10.12732/ijdea.v20i1.8 (SJR: 0.103) Scopus, Zentralblatt MATH.

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7. Malinova, M., Investigating new dependencies in the structure of near-rings over finite cyclic groups, International Journal of Differential Equations and Applications, 2021, Vol. 20, No. 2, 197–206, doi: 10.12732/ijdea.v20i2.6, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084. (SJR: 0.103) Scopus, Zentralblatt MATH.

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РП.1.2. Компютърно и математическо моделиране с приложение в инженерните и природните науки

Задача 1.2.5. Предвиждане и гарантиране на качеството в човеко-кибер-физически системи

Публикации по задача 1.2.5.

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3. Kyurkchiev, N., V. Kyurkchiev, A. Iliev, A. Rahnev, A look at the Modified SIRD Models with "Intervention Polynomial Factor". Methodological Aspects. II. International Journal of Differential Equations and Applications, Volume 20, No. 1 (2021), pages: 31-41, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084. doi: 10.12732/ijdea.v20i1.3 (SJR: 0.103) Scopus, Zentralblatt MA
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4. Kyurkchiev, N. Some Intrinsic Properties of Adaptive Functions to Piecewise Smooth Data, 2021, Publisher: Plovdiv University Press, p. 200, ISBN: 978-619-202-670-7.
https://www.researchgate.net/publication/351942970_Some_Intrinsic_Properties_of_Adaptive_Functions_to_Piecewise_Smooth_Data
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6. Pavlov, N., Efficient Matrix Multiplication Using Hardware Intrinsic and Parallelism with C#, International Journal of Differential Equations and Applications, 2021, Vol. 20, No. 2, 217–223, doi: 10.12732/ijdea.v20i2.8, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084. (SJR: 0.103) Scopus, Zentralblatt MATH.
<http://www.ijam.eu/en/index.php/ijdea/article/view/5967>
7. Naneva, V., K. Stefanova, Implementation of a Custom Visual in BI Tools, International Journal of Differential Equations and Applications, 2021, Vol. 20, No. 2, 225–234, doi: 10.12732/ijdea.v20i2.9, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084. (SJR: 0.103) Scopus, Zentralblatt MATH.
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РП.2.1. Отворени образователни ресурси

Научна задача 2.1.1 Създаване на общодостъпни образователни ресурси

1. Терзиева, Т., Дидактически средства за обучение в електронна среда, Университетско издателство „Паисий Хилендарски“, Пловдив, стр. 139, 2021 г., ISBN 978-619-202-631-8.

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2. Terzieva, T. Development of Cognitive Skills through Computer Educational Games, Pedagogy, Bulgarian Journal of Educational Research and Practice, Vol. 93, Number 7, 2021, ISSN 1314–8540 (Online), ISSN 0861–3982. **Web of Science**

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4. Дилянoв, В., В. Арнаудова, Е. Ангелова (2021) Методически подход за проверка на придобитите знания чрез DisPeL, Сб. Юбилейна международна научна конференция „Компютърни технологии и приложения“, 15-17 септември 2021 г., Пампорово, България, с. 47-56, УИ „П. Хилендарски“, ISBN: 978-619-202-702-5.

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6. Урилски, А., А. Малинова, А. Рахнев (2021) Заплахи за сигурността и осигуряване на защита в системите за електронно обучение, Сб. Юбилейна международна научна конференция „Компютърни технологии и приложения“, 15-17 септември 2021 г., Пампорово, България), с. 115-129, УИ „П. Хилендарски“, ISBN: 978-619-202-702-5.

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7. Chochev, N., T. Terzieva, Methodological Stages of the Training in Digital Marketing and SEO Optimization, Proc. of Anniversary International Scientific Conference “Research and Education in Mathematics, Informatics and Their Applications” (REMIA’2021), 22–24 October, 2021, Plovdiv, Bulgaria, 147–154, ISBN: 978-619-202-711-7.

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РП 2.3. Съвременни средства за цифровизация в образованието и работата с млади таланти

Научна задача 2.3.1: Добавена виртуална реалност в обучението (M01 – M24)

1. Тодорова, Е., С. Анева, С. Чиликова, П. Делчева (2021) Формиране и развитие на познавателни умения в обучението по „Компютърно моделиране и информационни технологии“ в прогимназията, Сб. Юбилейна международна научна конференция „Компютърни технологии и приложения“, 15-17 септември 2021 г., Пампорово, България), с. 103-113, УИ „П. Хиляндарски“, ISBN: 978-619-202-702-5.

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3. Terzieva, T., O. Rahneva, V. Dilyanov, Pedagogical Strategies for Development of Cognitive Skills in a Digital Environment, International Journal of Differential Equations and Applications, 2021, Vol. 20, No. 2, 251–261, doi: 10.12732/ijdea.v20i2.11, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084. (SJR: 0.103) Scopus, Zentralblatt MA

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Научна задача 2.3.2 Тримерни модели за онагледяването на учебно съдържание (M09 – M36)