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Образование:

PostDoc Fellow, Универзитет во Антверпен, Белгија, Септември 2015 - Јуни 2016
MOSAIK истражувачка група, под менторство на проф. Jan Broeckhove.
Проект: "A Systems Biology Approach of Leaf Morphogenesis"

PhD, Компјутерски системи, комплекси и мрежи, Технички Универзитет – Софија, 2013
Дисертација: Оптимизација на ресурсниот менаџмент кај многујадрените системи

Master of Science, Компјутерски системи и управување, Технички Универзитет Софија, 2009
Магистерски труд: Разработка на веб-базиран систем за електронска пошта
Просечна оцена од студиите: 9.43

BSc, Компјутерски системи и технологии, Технички Универзитет Софија– филијала Пловдив, 2007

Работно искуство:

- **Проректор за настава и студенти, 2025 - сега - Универзитет за Инфроматички Науки и Технологии „св. Апостол Павле" - Охрид**
- **Редовен професор , 2025 - сега - Универзитет за Инфроматички Науки и Технологии „св. Апостол Павле" - Охрид - Охрид**
- **Претседтел на Универзитетски Сенат , 2021 - 2023 - Универзитет за Инфроматички Науки и Технологии „св. Апостол Павле" - Охрид - Охрид**
- **Вонреден професор , 2020 - 2025 - Универзитет за Инфроматички Науки и Технологии „св. Апостол Павле" - Охрид - Охрид**
- **Научен соработник , 2015 - 2020 - Универзитет за Инфроматички Науки и Технологии „св. Апостол Павле" - Охрид - Охрид**
- **Асистент, 2009-2015 - Универзитет за Инфроматички Науки и Технологии „св. Апостол Павле" - Охрид - Охрид**
- **Предавач, 2010-2011 - Технички Универзитет Софија**
- **Координатор на лабораторијата за суперкомпјутери, 2010-2011**
- **Информатички инженер, 2008-2009, Фабрика за шеќер „4-ти Ноември" - Битола**

Научно-истражувачка Дејност:

I. Учебници и учебни помагала

1. Учебник - "Вовед во програмирање преку примери", издаден и рецензиран од страна на УИНТ, 2022. Учебникот се користи како основна литература за предметот Вовед во програмирање на УИНТ.

2. Збирка задачи - "Објектно-ориентирано програмирање преку пракса: Збирка на Проблеми со решенија во Јава", збирка решени задачи издадена и рецензирана од страна на УИНТ, 2025. Збирката задачи се користи како дополнителна литература за предметот Објектно ориентирано програмирање на УИНТ.

II. Книга рецензирана и објавена во земја членка на Европската Унија и/или ОЕЦД

3. M. Damar, O. Aydin (Editor); G. Risteski, M. Chathurika, B. Ali, Atanas Hristov, B. Nur Kars, E. YİĞİT, S. M. Eftimova, A. M. Bogdanova, V. Trajkovik, Ö. Doğan, O. Şahin, E. Karaarslan (2021), "Emerging Computer Technologies" by Izmir Akademi Derneg, ISBN: 978-605-71029-2-8, November 2021.

III. Дел од книга рецензирана и објавена во земја членка на Европската Унија и/или ОЕЦД

4. Karine Zeitouni, Mariem Brahem, Laurent Yeh, **Atanas Hristov** (2020), "Query Processing and Access Methods for Big Astro and Geo Databases" in Elsevier, *Knowledge Discovery in Big Data from Astronomy and Earth Observation*

IV. Научни трудови, објавени во меѓународни научни списанија:

5. "Impact of COVID-19 on the Macedonian E-Pharmacy Market with Survey Analysis"; Vlatko Grujoski, Atanas Hristov , Aneta Velkoska; TEM JOURNAL - Technology, Education, Management, Informatics; Vol.14, No.3; 2025; IF - 0,6;
6. "Mathematical modelling of scalability and performance testing methods for evaluating server capabilities"; D. Runchevski, Atanas Hristov, A. Rushiti; Journal of UIST, ISSN 2955-182X, Vol. 4 (No. 1), 2024
7. "ARTICONF decentralized social media platform for democratic crowd journalism"; I. R. Lima, V. Filipe, C. Marinho, A, Ulisses, A. Chakravorty, Atanas Hristov, N. Saurabh, Z. Zhao, R. Xin, R. Prodan; Social Network Analysis and Mining, (2023) 13:116, Journal IF - 2.8
8. "Overview and preformance analysis of the latest supercomputer "; T. Saferi, F. Doko, Atanas Hristov ; Journal of UIST, ISSN 2955-182X, Vol. 3 (No. 1), 2023.

9. "Secondary Structure Prediction of RNA using Convolutional Neural Networks"; B. Chauleva, Atanas Hristov, U. R. Shikoska, L. G. Sandzakoska ; International Journal of Student Project Reporting, DOI: 10.1504/IJSPR.2021.10041993, September 2021.
10. "HOW DATA ENGINEERING AND BIG DATA ANALYTICS CAN CONTRIBUTE INTO INTRODUCING INTELLIGENCE IN BUSINESS: A CASE STUDY"; Olga Petan, Ljubinka G. Sandjakoska, Atanas Hristov; Balkan Journal of Applied Mathematics and Informatics, Vol 4, No.1, June 2021.
11. "Log Analysis with Hadoop MapReduce "; Gligor Risteski, Mihiri Chathurika, Beyza Ali, Atanas Hristov; Journal of Emerging Computer Technologies, Vol 1, No.1, February 2021.
12. "Artificial Bee Colony Optimization Technique for Effective Resource Allocation" **Hristov Atanas**, Borovska,P. Journal of Emerging Research and Solutions in ICT, Vol.1, No.1, 75–87 April 2016.
13. "Exascale machines require new programming paradigms and runtimes"; G. D. Costa, T. Fahringer, J. A.Gallego, I. Grasso, **Atanas Hristov**, H. D. Karatza, A. Lastovetsky, F. Marozzo, D. Petcu, G. L. Stavrinides, D.Talia; Supercomputing Frontiers and Innovations journal, Vol 2, Special Issue: Sustainability In Ultrascale Computing Systems, November 2015.
14. Modular Router Architecture for High-Performance Interconnection Networks; Plamenka Borovska, Dragi Kimovski and **Atanas Hristov**; Technical Gazette, issue No. 5, Vol. 22, ISSN 1330-3651, October 2015 IF 0.615
15. **Hristov Atanas**, P. Borovska (2012), "A Next-Generation Programming Languages and Models for High Performance Computing Systems", Computer & Communications Engineering scientific journal, Vol. 6, No. 2/2012.
16. **Hristov Atanas** (2013), "Hybrid Parallel Programming Model for Solving the Travelling Salesman Problem", Computer & Communications Engineering scientific journal, Vol. 7, No. 1/2013.

V. Учество на меѓународни научни конференции и презентирани трудови на истите

17. „AI-Driven Smart Drying: Enhancing Efficiency in Transformer Production Systems"; Ljubinka Sandjakoska, Rasim Salkoski, Atanas Hristov, Anita Salkoska, Jovan Poposki, Ensar Bronja; International Conference on Intelligence-Based Transformations of Technology and Business Trends; October 2024.
18. "COVID-19 Pandemic Management: A Cloud-Based Electronic Health Record System"; I Mitreska, A. Velkoska, D. C. Bogatinoska, Atanas Hristov; Proceeding of the International Conference on Advanced Research in Technologies, Information, Innovation and Sustainability (ARTIIS 2024); Santiago de Chile, Chile, 21-23 October 2024.
19. "Social Media Use by Businesses in Europe"; A. Velkoska, Atanas Hristov; Proceeding of 16th international conference ICT innovations; Ohrid, Macedonia, 28-30 September 2024.
20. "MOGPlay: A Decentralized Crowd Journalism Application for Democratic News Production"; I. R. Lima, C. Marinho, V. Filipe, A. Ulisses, N. Saurabh, A. Chakravorty, Z. Zhao, Atanas Hristov, R. Prodan; Proceeding of IEEE/ACM International Conference on Social Networks Analysis and Mining - ASONAM 2022; Istanbul, Turkey, (Hybrid), 10-13 November 2022.

21. "EHR system tracks prisoner's data across countries to monitor COVID-19 in U.S. State and Federal Prisons"; O. Simonoski, I. Mitreska, D. C. Bogatinoska, Atanas Hristov; Proceeding of IEEE 2022 5th International Conference on Information and Computer Technologies - ICICT; New York, USA; March 2022.

22. "Tools for Analytics and Cognition for Crowd Journalism Application"; N. Panukoska, **Atanas Hristov**, A. Karadimce, N. Marina, M. Sefidanoski,; Proceeding of 13th EAI International Conference on e-Infrastructure and e-Services for Developing Countries - EAI AFRICOMM; Zanzibar, Tanzania; December 2021.

23. "Social Data Analytics for Enhancing the Collaborative Economy"; M. Sefidanoski, Atanas Hristov, A. Karadimce, N. Panukoska, N. Marina; Proceeding of 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT); IEEE; October 2021 (online).

24. "Single RNA Secondary Structure Prediction based Dynamical programming algorithms: to pralelize or not?"; Bisera Chauleva, Ljubinka Sandjakoska Atanas Hristov, Proceeding of 17th International Conference on Informatics and Information Technologies, 202

25. "Deep Neural Networks as supporting tools to cardiology"; Ljubinka Gjergjeska Sandjakoska, Atanas Hristov, Proceeding of 4th COST Action EU-cardioprotection workshop; Kragujevac, Serbia, 2019

26. "On the importance of deep learning regularization techniques in knowledge discovery"; Ljubinka Gjergjeska Sandjakoska, Atanas Hristov, Ana Madevska Bogdanova; Proceeding of international conference on Knowledge Discovery in Big Data from Astronomy and Earth Observation; Tenerife, Spain, 2018

27. "Concurrent parallel programming models for Big-data processing" ; Atanas Hristov, Marijana Krsteva, Proceeding of international conference on Big Data processing in the forthcoming era of ultra-high resolutions, Novi Sad, February 2018

28. "Improved programmability for extra large scale systems" ; **Atanas Hristov**, Proceeding of international conference on big data processing and management concepts for new platforms, Sopron, Hungary, February 2017

29. "Resource Management Optimization in Multi-Processor Platforms"; Atanas Hristov, Iva Nikolova, Georgi Zapryanov, Dragi Kimovski, Vesna Kumbaroska; Proceedings of Third Nesus Action Workshop, Sofia, Bulgaria, 2016

30. "Nature-Inspired Algorithm for Solving NP-Complete Problems"; **Atanas Hristov**; Proceedings of second International Workshop on Sustainable Ultrascale Computing Systems, Krakow, Poland, November 2015

31. **Hristov Atanas**, Dragi Kimovski (2011), "Development of Virtual Storage System", Sixth International Conference – Computer Science 2011, ()

32. D. Kimovski, **Atanas Hristov** (2013), "Buffer Management in High-performance Routers", XLVIII international scientific conference ICEST 2013.

33. M. Sung, A. Gjyrezi, Y. Syed, A. Matov, **A. Hristov,** Y. Lee, P. Giannakakou (2013), "Using CTCs to interrogate mechanisms of taxane resistance in the prospective TAXYNERGY clinical trial in Prostate Cancer", annual meeting of American Association for Cancer Research, New York 2013.

34. M. Sung, A. Gjyrezi, Y. Syed, **A. Hristov**, A. Matov, Y. Lee, P. Giannakakou (2012), "Molecular determinants of taxane activity using CTCs from CRPC patients", Physical Sciences in Oncology Center (PS-OC) Symposium at the Center on the Microenvironment and Metastasis at Cornell.
35. P. Borovska, **Atanas Hristov,** D. Kimovski (2012), "Performance Evaluation Of Intel Threading Building Blocks And Openmp Programming Models", X-th international conference CHER 21, 06/2012
36. P. Borovska, D. Kimovski, **Atanas Hristov** (2012), "Step-Back-On-Blocking Flow Control Mechanism For High Performance Interconnection Networks", X-th international conference CHER 21, 06/2012
37. D. Kimovski, **Hristov Atanas**, Rasim Salkoski (2011), "Development of highly parallel "Beowulf" cluster and optimization of MPI based implementation of the N-Queens problem with regards to the architecture of the system", X International Conference ETAI 2011,
38. D. Kimovski**, Hristov Atanas** (2011), "Development of Hybrid MPI/CUDA Based Cluster for Educational Purposes", Sixth International Conference – Computer Science 2011.

VI. Кординатор во национални научно-истражувачки проекти:

- "Дигитална трансформација водена од вештачка интелигенција во паметни производни системи", финансиран од Министерство за економија и труд (2024-2025)
- "Паметно земјоделство - дигитална трансформација на земјоделството базирана на ИоТ", финансиран од Фондот за иновации и технолошки развој (2023-2025)
- "Методологија за мониторинг на изборното медиумско претставување преку електронските медиуми (интернет портали) за време на изборните процеси", поддржан и финансиран од Државна Изборна Комисија на РМ (ДИК) и International Foundation for Electoral Systems (IFES), (2018-2019).

VII. Учество во меѓународни научно-истражувачки проекти:

- "CoPilot" founded by EIT HEI Initiative project committed to transforming Europe's Higher Education Institutions (HEIs) 2025-2027
- SINFT Social Impact NFTs: Empowering youth to make a social impact by creation of NFTs, European Union. Call: ERASMUS- EDU-2024-VIRT- EXCH 2024-2028
- "JOINt approAch to Blue circuLar Economy - for Adriatic and Ionian Region JOINABLE" founded by European Union via IPA ADRION - 2024 - 2027 programme
- „Business Support Service(s) Product development roadmap, Digital Marketing Company Audit and Digital Strategy", founded by GIZ - Deutsche Gesellschaft für Internationale Zusammenarbeit and co-founded by the EU (2024)
- "UIST - Prime Blue Accelerator - Promoting blue-tech and green-tech startups in the Ohrid Lake region" founded by GIZ - Deutsche Gesellschaft für Internationale Zusammenarbeit and co-founded by the EU (2022-2025).

- "smART socIal media eCOsytstem in a blockchaiN Federated environment (ARTICONF)" финансиран од европската Horizon 2020 истражувачка и иновативна програма согласно under grant agreement No 825134 (2020-2022).
- A Systems Biology Approach of Leaf Morphogenesis" founded by the research council of the University of Antwerp and an Interuniversity Attraction Poles (IUAP) from the Belgian Federal Science Policy Office (BELSPO) (2015-2017) - Член
- Center of excellence "Supercomputing Applications" – DCVP 02/1, supported by the National Science Fund, Bulgarian Ministry of Education and Science (2010 – 2013) - член.
- Automated enumeration of circulating tumor cells in peripheral blood from prostate and breast cancer patients, Giannakakou Laboratory in the Division of Hematology and Medical Oncology at Weill Cornell Medical College, New York (2012-2013) - член.

Членство во научни организации:

- Програмски одбор на меѓународната конференција " 2024 7th International Conference on Information and Computer Technologies - ICICT; Hawaii, USA; March 2024.
- Член на менаџментски одбор на COST Action CA23135 - Bringing Digital Data and Reality Together - Augmented Reality in Forestry (ARiF)
- Програмски одбор на меѓународната конференција " 2022 5th International Conference on Information and Computer Technologies - ICICT; New York, USA; March 2022.
- Програмски одбор на Intel4EC 2022 workshop ON INTELLIGENT AND ADAPTIVE EDGE-CLOUD OPERATIONS AND SERVICES;Portland, Oregon, USA, December 6-9, 2022.
- Програмски одбор на меѓународната конференција " 2023 6th International Conference on Information and Computer Technologies - ICICT; Raleight, USA; March 2023.
- Член на менаџментски одбор на COST Action CA22137 - Randomised Optimisation Algorithms Research Network (ROAR-NET))
- Член на менаџментски одбор на COST Action CA16122 - BIONECA
- Програмски одбор на меѓународната конференција "NECABIO Internation Conference" - Prague, 27-29 July 2021
- Член на менаџментски одбор на COST Action CA16101 - MULTI-modal Imaging of FOREnsic SciEnce Evidence - tools for Forensic Science
- Член на COST Action IC1305 in NESUS working group 2, 2014
- Член на програмси одбор на 16th International Conference on Algorithms and Architectures for Parallel Processing" - ICA3PP 2016
- Член на програмски одбор на of 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid" - CCGRID 2017
- Член на програмски одбор на of International Conference Applied Computer Technologies 2018" - ACT 2018
- Член на програмски одбор на International Conference Applied Computer Technologies 2019" - ACT 2019
- Член на програмски одбор на International Workshop on Theoretical Approaches to Performance Evaluation, Modeling and Simulation" - TAPEMS 2019
- Член на организаторски одбор на of the Sixth International Conference – Computer Science 2011
- Член на Македонското научно друштво – Битола од 2010 год.