

NEWSLETTER

National Competence Centre Bulgaria



TRAINING IN HIGH PERFORMANCE COMPUTING AND CYBERSECURITY APPLICATIONS, PLOVDIV, OCTOBER 2025

In early October, an international conference with cybersecurity/HPC training “Future Security Transformation: Synergies in the Post-Information Era” was held in Plovdiv, at the headquarters of the digital innovation hub “Trakia”, organized by the Joint Training Center for Simulation and Analysis – JTSAC and IICT-BAS in partnership with the EuroCC2 project and EDIH Trakia. The event brought together researchers and experts in computer science and security, as well as specialists from leading industrial companies in the sector.

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EUROCC2 WORKSHOP FOR HPC, HPDA AND AI SERVICES FOR INDUSTRY AND THE PUBLIC SECTOR, 15 OCTOBER 2025, UNWE

On October 15, 2025, a workshop within the EUROCC2 project was held, which presented the role of HPC, HPDA, and AI as a driver of modern industries and data-driven economies. During the workshop, the capabilities of the national HPC ecosystem and new infrastructures within the EUROCC2 were introduced, architectures and practices for implementing HPDA/AI in academic and industrial environments were presented, as well as the data quality management as a key component for the efficient use of modern computing resources.

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TRANSFORMATIONAL TRIGGERS FOR NEXT-GENERATION GLOBAL SECURITY: INDUSTRY SCIENCE SYNERGY IN THE AI ERA, 22 OCTOBER, 2025

The seminar entitled “Transformational Triggers for Next-Generation Security: Industrial-Scientific Synergy in the Age of AI” with a roundtable, held on 22 October 2025 at A keynote speaker was Prof. Emanouil Atanassov, who presented on “New Trends in High Performance Computing (HPC) and Their Implications for Cybersecurity”. He demonstrated that without reliable HPC capacity, AI-based defence systems cannot be trained, tested, or defended at scale.

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TRAINING “BIG DATA ANALYTICS”, 26 OCTOBER 2025, UNWE

On 26 October 2025, UNWE hosted a specialized training session titled BDA1.1 “Big Data Analytics”, bringing together researchers and representatives from the business, interested in modern data-driven solutions. The event focused on the foundations, methods, and technological ecosystem that enable organizations to transform vast and complex datasets into strategic value. The participants were guided through the essentials of big data—from theory to hands-on understanding of modern technologies.

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HPC CONFERENCE 2025, 20 NOVEMBER 2025

On 20 November, the traditional annual conference dedicated to the use of high-performance computing for science and innovation was held in the large conference hall of the UNWE. The event presented new trends and initiatives in the field of high-performance computing, the Centre's portfolio of services and expertise, the competence map, updates in training activities, approaches to working with industry, success stories, significant results achieved throughout the year, as well as cooperation with other initiatives and centres. During the event, two round-table discussions with representatives from industry took place, focusing on collaboration between academia and industry.

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WILDLAND FIRE BEHAVIOR MODELLING IN SUPPORT OF SVILENGRAD MUNICIPALITY FIREFIGHTING AND CIVIL PROTECTION EFFORTS (SUCCESS STORY: COLLABORATION WITH THE PUBLIC SECTOR)

Svilengrad Municipality is exposed to two primary natural hazards: torrential floods, driven by the dense Maritsa River watershed, and **recurring** wildland fires. The increasing frequency and severity of these hazards in recent years have created a complex operational environment, requiring enhanced situational awareness, cross-border coordination, and scientifically supported decision-making.

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THE POWER OF HPC FOR A BETTER LIFE!

Upcoming Events

- Invitation to Building Robust Industrial AI Solutions: Addressing Real-World Challenges with MATLAB & HPC, LUMI AI Factory NCC Czech Republic, 15 January 2026



Past Events

- Training on HPC Fundamentals with Cybersecurity Applications, NCC Bulgaria, 2 October 2025
- Workshop: "Feedback from Industry users about training & support when starting using HPC+", CASTIEL2, 7 October 2025
- Workshop: "Empower your Service Portfolio and Visibility", CASTIEL2 & EuroCC2, 10-11 October 2025.
- Meeting: "Coffee'n Context", CASTIEL2, 27 October 2025
- Open Doors at IICT, NCC Bulgaria, 28 October 2025.
- Event to showcase HPC for societal impact, CoE Hidalgo2, 4 November 2025
- HPC 2025, NCC Bulgaria, 20 November 2025.
- FFplus Open Call for Innovation Studies, 10 December 2025
- Hands-on session on creating content for the HPC in Europe Portal, CASTIEL2 & EroCC2, 16 December 2025



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