MEET THE LECTURERS

Online Summer School Course in "Sustainable manufacturing in Industry 4.0: technologies and solutions"

Ivanna BATURYNSKA

Researcher at the Department of Manufacturing and Civil Engineering (Norwegian University of Science and Technology).
Ph.D. in Additive Manufacturing.
Background in engineering (computer-aided manufacturing).
Specializes in Additive Manufacturing | Machine Learning| Monitoring and control systems | Data Science.
Working on control and management of variations in additive manufacturing.
Developing an intelligent quality assurance system for additive manufacturing.
Applying both traditional and machine learning techniques.

Ievgen BYBA

Ph.D in Structure formation and mechanical properties of construction titanium alloys during activated sintering of titanium hydride powders.
Associate Professor at Igor Sikorsky Kyiv Polytechnic Institute, Faculty of Physical Engineering, High temperature Materials and Powder Metallurgy department. Major in Powder metallurgy and composite materials.
He focuses on research in the field of materials science; new materials from renewable resources; titan-matrix composites; waste recycling from TPP (Production of clinkerless cement from metallurgical waste and TPP waste (bottom ash waste)); wear-resistant surfacing elements for machine parts of mining and processing enterprises; obtaining castings from porous cast aluminum by vacuum impregnation filler method; making of new super-hard materials; coatings.
Published over 30 scientific papers.

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Investment Adviser of the Representative Office of Nordic Environment Finance Corporation (NEFCO) in Ukraine. PhD in Economics, Alumni of Young Entrepreneurs Programme 2018 held by the Norwegian-Ukrainian Chamber of Commerce, 10 years in origination, investing and administration energy efficiency projects in private and municipal sectors of Ukraine.

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She has recently been focused on efficiency management mechanism of
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Research interests today: Computer-aided design, Computer-aided manufacturing, Additive manufacturing.

Anna KUKHARUK

Ph.D. in Economics since 2014, Associate Professor at Igor Sikorsky Kyiv Polytechnic Institute. Education: economist-auditor, teacher of economics. Anna has practical experience in the field of receivables management of international companies and advertising.
The subject of her scientific work: competition and competitiveness of a company.
Lecturer at the university since 2010.
She is the author of more than 70 scientific papers and 4 books.
Research interests today:
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-economic dimension of Industry 4.0, sustainable development.

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PhD, Associate Professor at the Manufacturing Engineering Department of Igor Sikorsky Kyiv Polytechnic Institute. Deputy director for International Affairs at the Institute of Mechanical Engineering. She has authored more than 30 scientific publications and methodical literature in the area of manufacturing engineering and international collaboration. She teaches courses in Informatics, Computer Aided Design, Assembly Process Planning.

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PhD in Powder Metallurgy and Composite Materials.
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Scientific interests: development of new powder soft-magnetic materials based on composite iron powders for electrotechnical components; development of scientific and technological principles of creation of powder layered soft magnetic materials for magnetic conductors with controlled anisotropy of properties; development of combinatorial methods of making economically alloyed powder-based metallurgy products; development of materials of electrical contacts operating under conditions of high currents and voltage; development of composite materials on the basis of frame structures of the iron-aluminum system. Published 30 scientific papers.

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Background in Materials Science and Technology and Physics.
Skilled in Industry 4.0 (IIoT) based Manufacturing, Thin Films, semi-conductors, MEMS (sensors and actuators), sensor systems and production systems including project management and enterprise architecture.
Study Programme Manager MSUMA
Teaching courses in Sustainable Manufacturing: Industry 4.0 with an emphasis on Reference Architectures and Connectivity.
Before joining NTNU as a full time Associate professor, Peter was a senior researcher at SINTEF MiNaLab, and part of the teams buidling silicon based sensors and systems for industry and basic research. His PhD thesis (doktoringeniør) and physics background, and current research interests, and most of the sensor development at SINTEF was related to materials science. At NTNU his research and teaching includes information systems and enterprise architecture- in an Industry 4.0 context. He is the Norwegian coordinator of the joint KPI-NTNU summer school and project for education in industry 4.0.

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His current research interests include machine vision, machine learning, distributed control systems, and event-driven architectures for robotics and automation. A central theme of his research is smooth transition from ad-hoc prototyping to building well-structured computing and control systems.

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Research interests: formation of competitive advantages of business and national economics with Industry 4.0 tools; mechanisms for increasing the efficiency of innovation – investment processes at micro- and macrolevels; sustainable development of the enterprises in terms of macroeconomic instability; corporate social responsibility in the system of balanced development of the enterprise; modeling and optimization of business processes of the enterprise.
Author and co-author of tutorials, monographs and textbooks, more than 200 scientific publications.

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