

# InfoGenerator

Your source of information – trustworthy, beneficial and handy

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## Dear friends!

The Scientific Library of Belarussian National Technical University (BNTU) offers you «InfoGenerator» digest, a free access resource providing information support to teachers, students and university staff. It is prepared by library professionals and includes book reviews, open access resources and latest university news. Systematization by field of science, annotations and additional materials make this a useful tool for readers' advisory, curriculum and research support.

The first issue of the digest contains additional resources in the field of social sciences and humanities.

**Scientific Library of BNTU wishes you successful and productive work and study!**

## Studying in English: Belarussian National Technical University welcomes international students

Belarussian National Technical University (BNTU) is one of the leading technical universities in the territory of the former Soviet Union training engineers since 1920. Meeting the challenges of the 21st century, BNTU combines classical university traditions with modern approaches and technologies. According to Webometrics Ranking of World Universities BNTU ranks among 9% of the world's best universities.

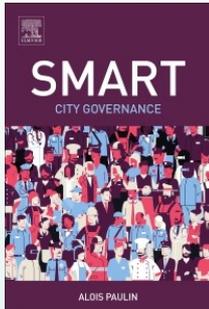
Education, science, business and production are closely intertwined in BNTU. Successful businesses were established within our university. For the whole specialities listed below university provides appropriate logistic infrastructure.

A successful professional career is one that addresses the needs of society and, undoubtedly, a high qualified engineer is one of them. Do you agree? Than BNTU might be the place for you! Here we present you 6 specialities in highest demand to study in English:

- Information Systems and Technologies;
- Automation of Technological Processes and Production;
- Industrial and Civil Engineering;
- Machine Building Technology;
- Vehicle Maintenance and Repair (Technical Maintenance of Automobiles);
- Biotechnical and Medical Apparatus and Systems.

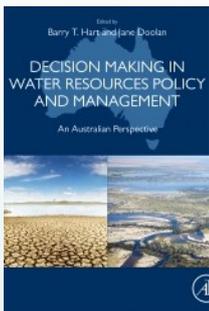


## Political Science



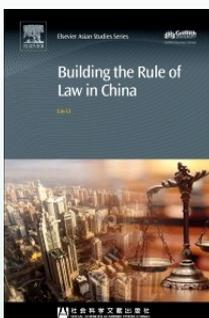
**Paulin, A. Smart City Governance / A. Paulin. – Elsevier, 2019. – 304 p. – Doi : <https://doi.org/10.1016/C2017-0-04241-6>**

Smart City Governance examines public domain activities and services in the digital age, evaluating all facets of smart city e-governance that fosters a cohesive understanding for the emerging generation of advanced “digital natives.” Exploring the tensions between political science and jurisprudence theories with the principles of societies and their alignment with legal systems, the book examines how governance systems can translate into the digital domain, addressing both the technical and legal dimensions.



**Decision Making in Water Resources Policy and Management : An Australian Perspective / ed. : B. T. Hart, J. Doolan. - Academic Press, 2017. – 398 p. – Doi : <https://doi.org/10.1016/C2015-0-04506-3>**

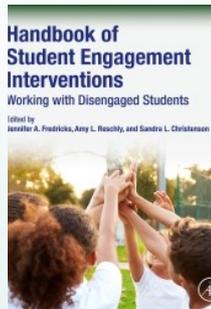
Topics covered include key aspects of water resources planning, recent water resource policy changes in irrigation, urban, and environmental considerations, the evolution of a water market, a number of case studies that provide real examples of improved decision-making. This information is essential to early to mid-career practitioners engaged in policy, planning and operational roles in all fields of water resource policy and management, and catchment management.



**Li, L. Building the Rule of Law in China / L. Li. – Elsevier, 2017. – 352 p.**

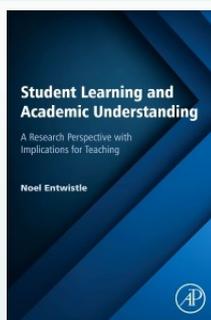
Building the Rule of Law in China explores the idea that China needs a more globalized and diversified vision for the science of law, presenting the need to think differently from the two major western mainstream legal cultures, the Anglo-American and the continental systems. This book explores the topic from several perspectives, giving the reader an up-to-date resource on the ever-evolving vision for the science of law in China.

## Fundamentals of Psychology and Pedagogy



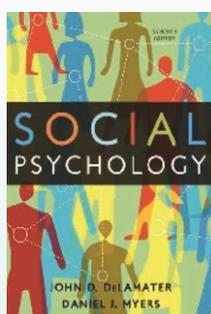
**Handbook of Student Engagement Interventions : Working with Disengaged Students / ed. : J. A. Fredricks, A. L. Reschly, S. L. Christenson. - Academic Press, 2019. - 410 p. – Doi : <https://doi.org/10.1016/C2016-0-04519-9>**

The book looks at ways of reducing suspensions through alternative disciplinary practices, the role resiliency can play in student engagement, strategies for community and school collaborations in addressing barriers to engagement, and what can be learned from students who struggled in school, but succeeded later in life. It is a hands-on resource for educators, school psychologists, researchers, and students looking to gain insight into the research on this topic and the strategies that can be deployed to promote student engagement.



**Entwistle, N. Student Learning and Academic Understanding : A Research Perspective with Implications for Teaching / N. Entwistle. - Academic Press, 2018. – 398 p. – Doi : <https://doi.org/10.1016/C2014-0-02037-0>**

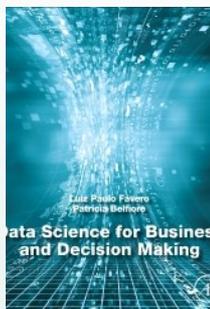
Student Learning and Academic Understanding covers a wide range of concepts that have emerged from interviews in which students use their own experiences to describe how they study and what they find most useful in developing an academic understanding of their own. These concepts differ from the traditional psychological concepts by being focused on the specific contexts of university and college, although they are also relevant to the later stages of school education.



**Delamater, J. D. Social Psychology / J. D. Delamater, D. J. Myers. - 7th ed. – Wadsworth, 2010. – 588 p.**

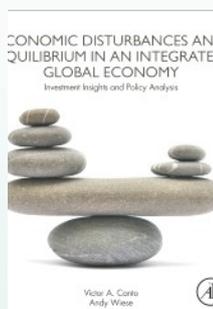
Why are some people more charitable than others? Why do some people obey authority and conform while others always have to buck the trend? Why are some people lazier when they work in groups? What is the source of people's stereotypes and prejudices? What causes conflict between groups? What makes us who we are? SOCIAL PSYCHOLOGY covers topics ranging from interpersonal attraction to social structure, allowing you to explore essential questions in the field.

## Economical Theory



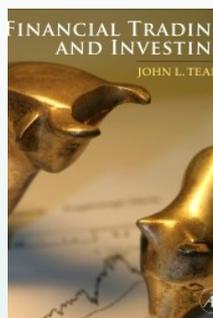
**Fávero, L. P. Data Science for Business and Decision Making / L. P. Fávero, P. Bellone. - Academic Press, 2018. – 1240 p. – Doi : <https://doi.org/10.1016/C2016-0-01101-4>**

The book more clearly defines the principles of business analytics for those who want to apply quantitative methods in their work. Its emphasis reflects the importance of regression, optimization and simulation for practitioners of business analytics. Each chapter uses a didactic format that is followed by exercises and answers. Freely-accessible datasets enable students and professionals to work with Excel, Stata Statistical Software®, and IBM SPSS Statistics Software.



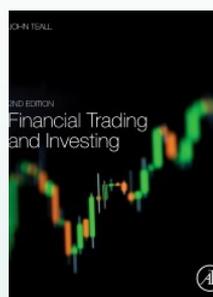
**Canto, V. A. Economic Disturbances and Equilibrium in an Integrated Global Economy: Investment Insights and Policy Analysis / V. A. Canto, A. Wiese. - Academic Press, 2018. – 433 p. – Doi : <https://doi.org/10.1016/C2017-0-00904-7>**

Drawing upon the most recent trends in monetary policy and international economics, the book offers sustained direct engagement with the main research question and makes innovative use of the simple concepts of supply and demand to illuminate modern finance literature. The book succeeds by highlighting the often-forgotten interconnectedness of different economic processes.



**Teall, J. L. Financial Trading and Investing / J. L. Teall. - Academic Press, 2013. – 456 p. – Doi : <https://doi.org/10.1016/C2011-0-69756-X>**

Unlike standard investment texts that cover trading as one of many subjects, Financial Trading and Investing gives primary attention to trading, trading institutions, markets, and the institutions that facilitate and regulate trading activities—what economists call "market microstructure." The text will be accompanied by a website that can be used in conjunction with TraderEx, Markit, StocklinkU, Virtual Trade, Vecon Lab Experiment, Tradingsim, IB Student Trading Lab, Brenexa, Stock Trak and How the Market Works.



**Teall, J. L. Financial Trading and Investing / J. L. Teall. - 2nd ed. - Academic Press, 2019. – 522 p. – Doi : <https://doi.org/10.1016/C2016-0-00451-5>**

Financial Trading and Investing, Second Edition, delivers the most current information on trading and market microstructure for undergraduate and master's students. Without demanding a background in econometrics, it explores alternative markets and highlights recent regulatory developments, implementations, institutions and debates. New explanations of controversial trading tactics (and blunders), such as high-frequency trading, dark liquidity pools, fat fingers, insider trading, and flash orders emphasize links between the history of financial regulation and events in financial markets.

## Economical Theory



**Hill, J. FinTech and the Remaking of Financial Institutions / J. Hill. - Academic Press, 2018. – 386 p. – Doi : <https://doi.org/10.1016/C2016-0-03863-9>**

FinTech and the Remaking of Financial Institutions explores the transformative potential of new entrants and innovations on business models. In its survey and analysis of FinTech, the book addresses current and future states of money and banking. It provides broad contexts for understanding financial services, products, technology, regulations and social considerations. The book shows how FinTech has evolved and will drive the future of financial services, while other FinTech books concentrate on particular solutions and adopt perspectives of individual users, companies and investors.



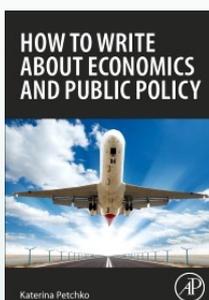
**Ikononou, C. Funding the Greek Crisis: The European Union, Cohesion Policies, and the Great Recession / C. Ikononou. - Academic Press, 2018. – 336 p. – Doi : <https://doi.org/10.1016/C2017-0-01572-0>**

Funding the Greek Crisis: The European Union, Cohesion Policies, and the Great Recession explores the sources of the Greek Crisis that lie primarily in EU policies that appeared to have worked better for other countries but not for Greece. Without overly simplifying the Greek condition, it provides insights into policies the countries of the euro area may need to implement in order to ensure collective cohesion and individual success.



**Handbook of Investors' Behavior During Financial Crises / ed. : F. Economou [et al.]. - Academic Press, 2017. – 514 p.**

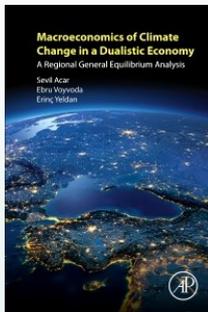
The Handbook of Investors' Behavior during Financial Crises provides fundamental information about investor behavior during turbulent periods, such as the 2000 dot com crash and the 2008 global financial crisis. The volume provides novel insights about the influence and effects of regional differences in market design.



**Petchko, K. How to Write About Economics and Public Policy / K. Petchko. - Academic Press, 2018. - 472 p. - Doi: <https://doi.org/10.1016/C2016-0-04062-7>**

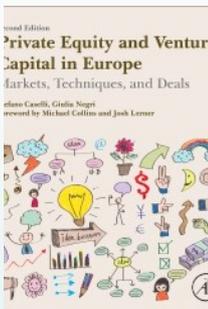
This guidance is based upon the actual writing practices of professional researchers in these fields and it will appeal to practitioners and students in disciplinary areas such as international economics, macroeconomics, development economics, public finance, policy studies, policy analysis, and public administration. This book would be equally effective as a classroom text or a self-study resource.

## Economical Theory



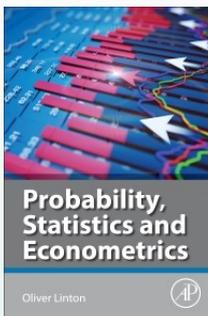
**Acar, S. Macroeconomics of Climate Change in a Dualistic Economy: A Regional General Equilibrium Analysis / S. Acar, E. Voyvoda, E. Yeldan. - Academic Press, 2018. - 154 p. - Doi : <https://doi.org/10.1016/C2016-0-04839-8>**

Macroeconomics of Climate Change in a Dualistic Economy: A Regional General Equilibrium Analysis generates significant, genuinely novel insights about dual economies and sustainable economic growth. The authors overcome existing limitations in general equilibrium modeling. By concentrating on tensions between green growth and dualism, they consider the global efforts against climate change and opposition by specific countries based on economic development needs.



**Caselli, S. Private Equity and Venture Capital in Europe: Markets, Techniques, and Deals / S. Caselli, G. Negri. - 2nd ed. - Academic Press, 2018. - 350 p. - Doi : <https://doi.org/10.1016/C2016-0-01918-6>**

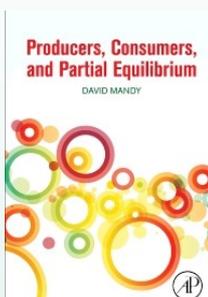
Structured to provide a taxonomy of the business, Private Equity and Venture Capital in Europe, Second Edition, introduces private equity and venture capital markets while presenting new information about the core of private equity: secondary markets, private debt, PPP within private equity, crowdfunding, venture philanthropy, impact investing, and more. Every chapter has been updated, and new data, cases, examples, sections, and chapters illuminate elements unique to the European model.



**Linton, O. Probability, Statistics and Econometrics / O. Linton. - Academic Press, 2017. - 388 p.**

Probability, Statistics and Econometrics provides a concise, yet rigorous, treatment of the field that is suitable for graduate students studying econometrics, very advanced undergraduate students, and researchers seeking to extend their knowledge of the trinity of fields that use quantitative data in economic decision-making.

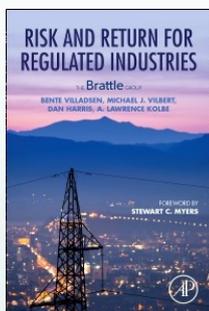
The book covers much of the groundwork for probability and inference before proceeding to core topics in econometrics. Authored by one of the leading econometricians in the field, it is a unique and valuable addition to the current repertoire of econometrics textbooks and reference books.



**Mandy, D. M. Producers, Consumers, and Partial Equilibrium / D. M. Mandy. - Academic Press, 2017. - 422 p. - Doi : <https://doi.org/10.1016/C2015-0-07027-7>**

The book maintains a sharp focus on the properties of outcomes from optimizing behavior in varying environments. These properties are the refutable hypotheses from each optimization behavioral postulate, and they form the core content of this positive economic theory. In so doing, the book presents and documents the underlying formal structure of the theory with a higher degree of integration and completeness than is typical of Ph.D. textbooks in microeconomics.

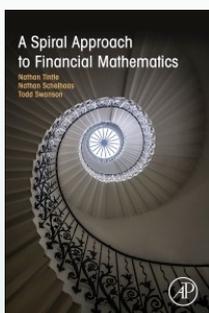
## Economical Theory



**Risk and Return for Regulated Industries / B. Villadsen [et al.]. - Academic Press, 2017. – 354 p.**

Risk and Return for Regulated Industries provides a much-needed, comprehensive review of how cost of capital risk arises and can be measured, how the special risks regulated industries face affect fair return, and the challenges that regulated industries are likely to face in the future.

Rather than following the trend of broad industry introductions or textbook style reviews of utility finance, it covers the topics of most interest to regulators, regulated companies, regulatory lawyers, and rate-of-return analysts in all countries.



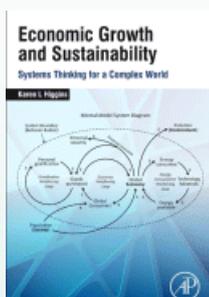
**Tintle, N. A Spiral Approach to Financial Mathematics / N. Tintle, N. Schelhaas, T. Swanson. - Academic Press, 2018. – 612 p. – Doi : <https://doi.org/10.1016/C2014-0-00441-8>**

Book introduces major financial concepts through real situations, integrates active learning, student focused explorations and examples with Excel spreadsheets and straightforward financial calculations. Focusing on conceptual understanding to maximize comprehension and retention, using modern financial analysis tools and utilizing active learning, the book offers a modern approach that eliminates tedious and time-consuming calculations initially without underestimating the ability of readers.



**Frølund, L. Strategic Industry-University Partnerships: Success-Factors from Innovative Companies / ed. : L. Frølund, M. F. Riedel. - Academic Press, 2018. – 230 p. – Doi : <https://doi.org/10.1016/C2016-0-00331-5>**

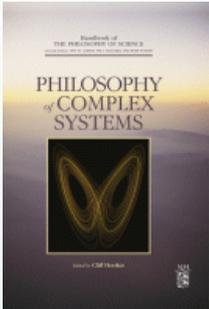
Industry-university partnerships have proved vital to innovation, and although these partnerships can be challenging, careful choices and wise management around five success-factors leads to a systematic approach that unlocks value for both parties. This volume captures observations of leading international corporations without omitting university views. It can serve all partners in alliances as a guide to strengthening their organizations.



**Higgins , K. L. Economic Growth and Sustainability: Systems Thinking for a Complex World / K. L. Higgins. - Academic Press, 2015. – 228 p. – Doi : <https://doi.org/10.1016/C2014-0-02358-1>**

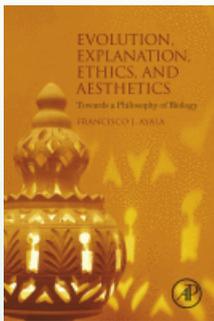
Book then weaves statistical trends into a system diagram and shows how the economic, environmental, and societal contributors of sustainability interact. From this holistic perspective, it finds leverage points where actions can be most effective and combines eight areas of intervention into an integrated plan. By emphasizing both individual and collective actions, it addresses the conundrum of how to blend human nature with sustainability. It identifies primary three lessons we can learn by applying systems thinking to sustainability.

## Philosophy



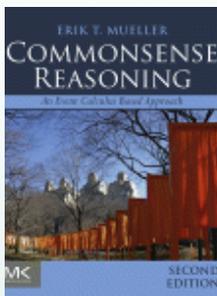
**Philosophy of Complex Systems : Volume 10 in Handbook of the Philosophy of Science / ed. : C. Hooker. – North Holland, 2011. – 952 p. – Doi : <https://doi.org/10.1016/C2009-0-06625-2>**

The domain of nonlinear dynamical systems and its mathematical underpinnings has been developing exponentially for a century, the last 35 years seeing an outpouring of new ideas and applications and a concomitant confluence with ideas of complex systems and their applications from irreversible thermodynamics. A few examples are in meteorology, ecological dynamics, and social and economic dynamics.



**Ayala, F. J. Evolution, Explanation, Ethics and Aesthetics : Towards a Philosophy of Biology / F. J. Ayala. - Academic Press, 2017. – 420 p.**

Evolution, Explanation, Ethics and Aesthetics: Towards a Philosophy of Biology focuses on the dominant biological topic of evolution. It deals with the prevailing philosophical themes of how to explain the adaptation of organisms, the interplay of chance and necessity, and the recurrent topics of emergence, reductionism, and progress. In addition, the extensively treated topic of how to explain human nature as a result of natural processes and the encompassed issues of the foundations of morality and the brain-to-mind transformation is discussed.

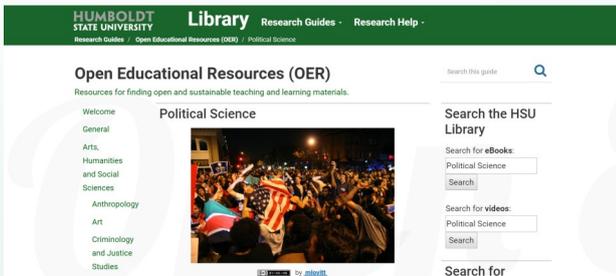


**Mueller, E. T. Commonsense Reasoning : An Event Calculus-Based Approach / E. T. Mueller. - 2nd ed. - Morgan Kaufmann, 2015. – 516 p. – Doi : <https://doi.org/10.1016/C2014-0-00192-X>**

Is a detailed, high-level reference on logic-based commonsense reasoning. It uses the event calculus, a highly powerful and usable tool for commonsense reasoning, which Erik Mueller demonstrates as the most effective tool for the broadest range of applications.

The Second Edition features new chapters on commonsense reasoning using unstructured information including the Watson system, commonsense reasoning using answer set programming, and techniques for acquisition of commonsense knowledge including crowdsourcing.

# Political Science, Sociology



## Open Educational Resources (OER)

Resources for finding open and sustainable teaching and learning materials.



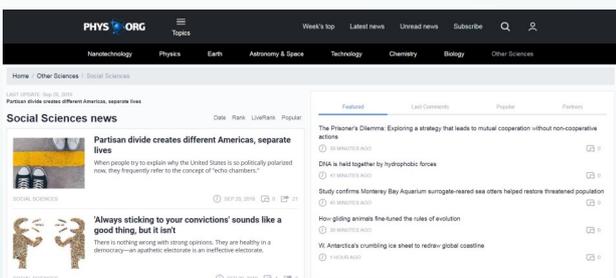
## Sociology Guide

A students guide to sociology.



## Everyday Sociology

A group of sociologists from all over the U.S. contribute articles to this blog, which is updated regularly. Geared primarily for students and educators, this blog applies a sociologist's spin to current events and news items.



## Phys.org - Social Sciences News - Psychology, Sociology

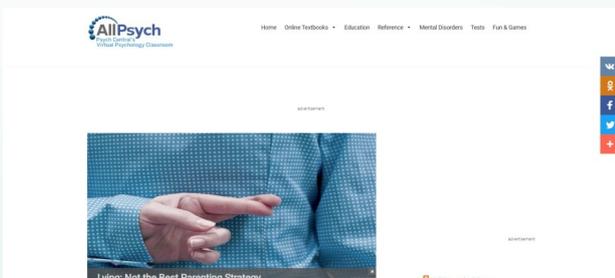
Phys.org provides the latest news on social sciences, history, political science, psychology and sociology.

# Fundamentals of Psychology



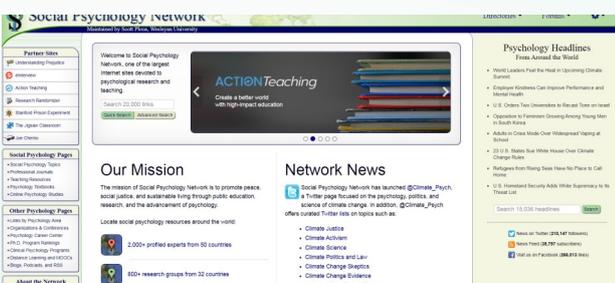
## All about Psychology

A Comprehensive Guide To The Wonderful World of Psychology.



## AllPsych – Psychology Online

AllPsych is one of the largest and most comprehensive psychology websites, referenced by hundreds of colleges and universities around the world.



## Social Psychology Network

One of the largest Internet sites devoted to psychological research and teaching.



## Psychology In Action

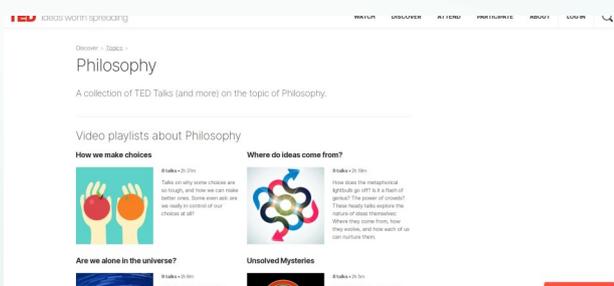
Communicating interesting and relevant psychological research to the public.

# Economical Theory, Philosophy



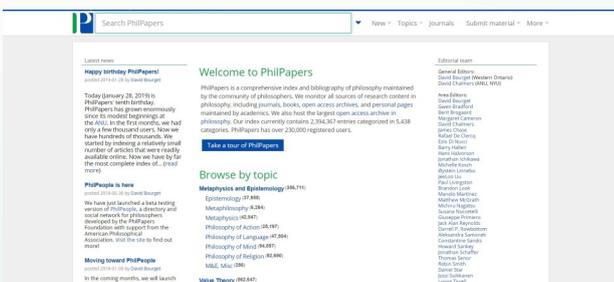
## Economics Online

News comment analysis theory.



## TED Talks

A collection of TED Talks (and more) on the topic of Philosophy.



## PhilPapers

Comprehensive index and bibliography of philosophy maintained by the community of philosophers.



## Aeon Philosophy

Magazine of ideas and culture. Published in-depth essays, incisive articles, and a mix of original and curated videos — free to all.

## News

### What it's like to be Dr.hab at 29? Times welcomes Martina Andlar who definitely knows it!

Directly from sunny Croatia the doctor of science and specialist in the field of biochemical engineering Martina Andlar came here within the international project of the European Union's program "People for the European Bio-energy Mix (PHOENIX)". She shared many interesting facts about the project and told us what it is like to be a doctor of science in 29.

[More](#)



### How to develop a project for Erasmus+ programme

Following the rector's request, our university moves towards an active strategy in the field of the implementation of international programmes and projects, which suggests an independent development and coordination of projects based on the priorities and goals of BNTU. The example of implementation of such policy is the project "FABLAB".

[More](#)



Belarusian National Technical University

Scientific Library of BNTU

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No. 1, October, 2019

Reprint with reference to "InfoGenerator".

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